

Trends in Texas Commercial Fishery Landings, 1972-1989

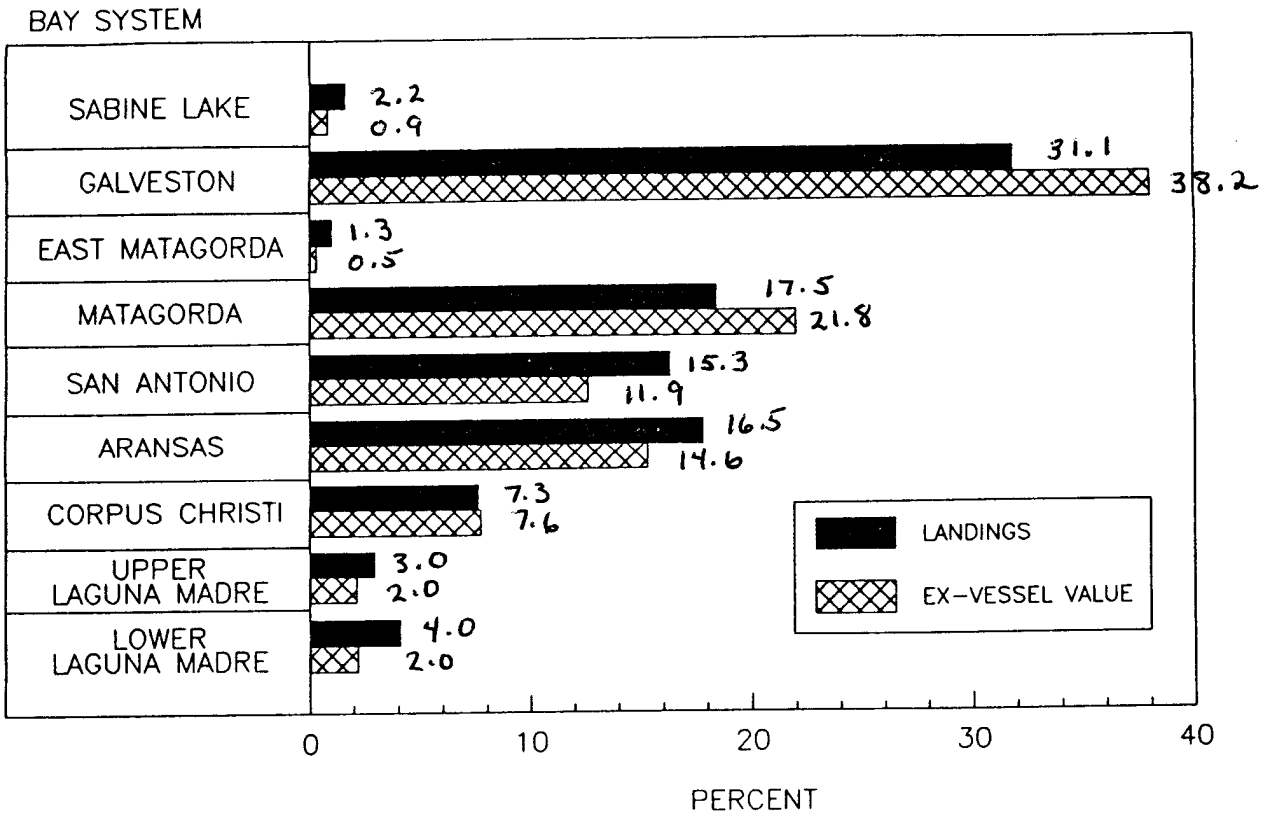
by
Michael A. Johns

Management Data Series
No. 37
1990

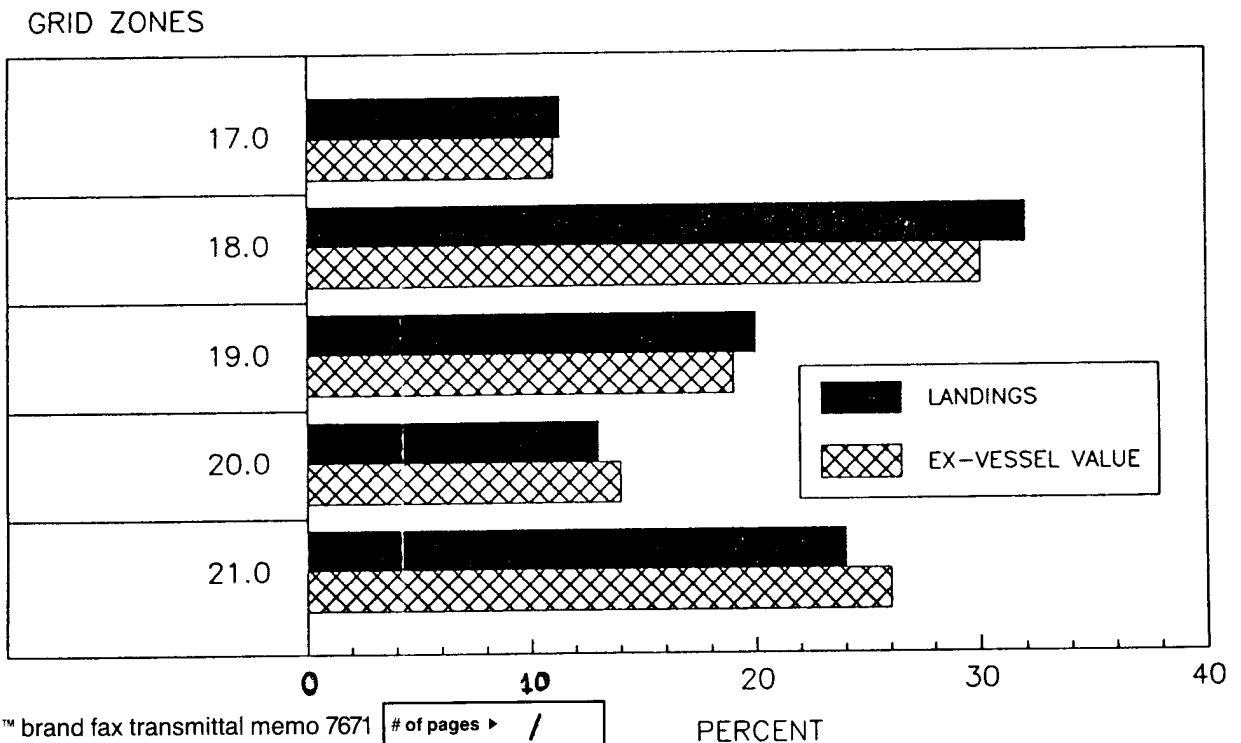


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A. Percents based on total landings from 1972-1989



B.



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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 1972 through 1989 and 94% of the total ex-vessel value. During this period blue crabs, Eastern oysters and finfish comprised 8%, 3% and 5% of total landings respectively. Since 1972 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 accounted for 85% by weight, of all seafood landed in calendar year 1989 and 91% of the total 1989 ex-vessel value. During 1989 blue crabs, Eastern oysters and finfish comprised 10%, 2%, and 3% of the total landings, respectively, and 3%, 3% and 2% of the total ex-vessel value, respectively. Compared to 1988 prices, the average 1989 unit price declined 2% for shrimp and 1% for Eastern oysters, while finfish and blue crabs increased 2% and 7%, respectively.

The total reported landings and ex-vessel value for 1989 were 7% and 14% less than in 1988. Total coastwide landings were just less than 91 million pounds and ex-vessel value was over \$156 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 finfish 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 shrimp landings data 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 1972 through 1989.

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). Seafood products purchased from commercial fishermen by restaurants, bait dealers as well as consumers for personal use are not monitored by the MMPR system. 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 fishermen fishing in 1989 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. When discrepancies occur 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, 1988 and 1989, 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 18-year period of 1972-89, 1.8 billion pounds of seafood products valued at \$2.8 billion were reported harvested from Texas bays and the Gulf of Mexico, and landed in Texas (Tables 3-16). Shrimp 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 8% 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 5% of the landings and 2% of the ex-vessel value (Fig. 7.A). Gulf landings constituted 70% of total landings and 85% 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 98 million pounds during this period, ranging from 81 to 116 million, while total ex-vessel values ranged from \$72 to \$246 million (Fig. 7.B).

During this period, total coastwide bay landings ranged from 19 to 40 million pounds per year and ex-vessel values ranged from \$7 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 the period of 1972-1989, total coastwide Gulf landings ranged from 53 to 92 million pounds per year and ex-vessel values ranged from \$65 to \$206 million annually. Excluding shrimp, the most productive offshore Gulf area with respect to products landed during the 18-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 accounting for only 30% of the total ex-vessel value. Grid zone 21.0, offshore from the lower Laguna Madre system, accounted for 28% of the Gulf landings and 27% 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 the contribution of individual bay systems to total coastwide landings by from 1972 through 1989 indicate that landings from the Galveston Bay system exceeded all others 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 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 1972 through 1989 indicates most landings came from grid zones 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 1972-89, constituted 63%, by weight, of all shrimp landed and represented 72% of the total coastwide ex-vessel value. White shrimp (*P. setiferus*) accounted for 19% of the landings and 22% 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 not exhibited any trend this 18-year period; white shrimp landings were variable through 1980, exhibited a general increase through 1986 and have subsequently declined in successive years. Since 1972 the ex-vessel values of all shrimp species generally increased through 1986 and has declined thereafter (Fig. 11.A-D).

The coastwide annual landings for all shrimp species combined ranged from 68 to 98 million pounds while ex-vessel values ranged from \$67 to \$229 million (Fig. 11.D). Annual blue crab landings ranged from 6.0 to 11.7 million pounds while ex-vessel values ranged from \$0.7 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 1.9 million in 1989 (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 adinae) (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 value 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 1972 to 1981 red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus) and black drum (Pogonias cromis) constituted 61-73% of the weight and 56-80% of the value of all finfish landings (Tables 3-10). 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). However, by 1986 black drum and sheepshead landings had dropped to their lowest levels since 1972, sheepshead landings subsequently reached an all time low in 1989. Flounder and snapper landings were at their highest levels in 1986 (Fig. 13.A-D). In 1989 snapper and black drum landings decreased moderately, while flounder and sheepshead landings decreased sharply. During 1989 black drum, flounder and snapper landings comprised 54% of all finfish landings and 61% of the total ex-vessel value for finfish. Annual landings and ex-vessel value of other finfish and total finfish between 1972 and 1981 (Tables 7,8,13,14; Fig. 14.A and B), included red drum and spotted seatrout. Annual landings of other finfish, excluding red drum and spotted seatrout, declined from about 1.0 million pounds annually from 1973-1976 then fluctuated around 460,000 pounds from 1975 to 1985 when landings increased sharply to more than 1.2 million pounds, reflecting primarily an increase in landings of Gulf species. From 1972 to 1989 total finfish landings ranged from 1.4 to 4.3 million pounds annually with mean landings of 3.1 million pounds annually, excluding red drum and spotted seatrout.

Since 1972 the mean price per pound paid to commercial fishermen for shrimp has ranged from \$0.82-\$2.48 with an overall mean of \$1.75. Finfish prices ranged from \$0.23-\$1.23 averaging \$0.68, Eastern oyster unit prices ranged from \$0.63-\$2.50 averaging \$1.45 and blue crabs ranged from \$0.10-\$0.44 averaging \$0.27. In 1989 snapper had the highest ex-vessel unit price (\$2.01/lb) of the major finfish species landed. Eastern oyster had the highest unit price of the major shellfish species in 1989 at \$2.48/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 1989 are presented in Appendices D and E, respectively. Weight and ex-vessel value varied among bay systems and grid zones by month and species. Nearly 72% of the weight and 69% of the ex-vessel value of brown and pink shrimp from the Gulf in 1989 was landed during July-October. More than 57% of the weight and 50% of the value of white shrimp from the Gulf in 1989 was landed during August-November.

Annual weight and ex-vessel value of menhaden (Brevoortia sp.) caught off Texas but landed commercially in Louisiana during 1977-1989 are presented in Appendix F. Weight and ex-vessel value have annually averaged 97,582,000 pounds and \$4,247,000, 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 1989 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 1989 729,500 pounds of meat valued at \$1,812,800 were landed in Texas from oyster leases.

The number of commercial licenses sold in Texas in each fiscal year (September-August) from 1956 to 1989 are presented in Appendix H. Retail fish dealer licenses sold in 1989 (3,800) decreased 9% from 1988. Wholesale fish dealer licenses sold in 1989 (448) decreased 6% from 1988.

DISCUSSION

Commercial fishing continues to be an important industry in Texas. Approximately 91 million pounds of seafood with an ex-vessel value of \$156 million were reported landed in 1989. 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 94,000,000 pounds of menhaden worth over \$4,200,000 (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, brown shrimp constitute about 95% of the landings of these two species combined (Christmas and Etzold 1977). 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. Most important, 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; therefore, estimates of relative abundance based on reported landings may be inaccurate (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. Individuals 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 ^a	Common Name	Scientific Name ^a
FINFISH			
Alligator gar	<u>Lepisosteus spatula</u>	Mullet	Mullet
Atlantic croaker	<u>Microponias undulatus</u>	Striped mullet	<u>Mugil cephalus</u>
Atlantic cutlassfish	<u>Trichirurus lepturus</u>	White mullet	<u>Mugil curema</u>
Atlantic moonfish	<u>Selene setapinnis</u>	Red drum	<u>Sciaenops ocellatus</u>
Atlantic spadefish	<u>Chaetodipterus faber</u>	Porgies	Family Sparidae
Black drum	<u>Pogonias cromis</u>	Seatrout	
Bluefish	<u>Pomatomus saltatrix</u>	Spotted seatrout	<u>Cynoscion nebulosus</u>
Blue runner	<u>Caranx crysos</u>	Sand seatrout	<u>Cynoscion arenarius</u>
Cobia	<u>Rachycentron canadum</u>	Silver seatrout	<u>Cynoscion nothus</u>
Codfish	Family Gadidae	Shark	
Cravelle jack	<u>Caranx hippos</u>	Atlantic sharpnose	<u>Rhizoprionodon terraenovae</u>
Cusk eel	Family Ophidiidae	Blacktip	<u>Carcharhinus limbatus</u>
Dolphin	<u>Coryphaena hippurus</u>	Bull	<u>Carcharhinus leucas</u>
Flounder		Great hammerhead	<u>Sphyrna mokarran</u>
Gulf flounder	<u>Paralichthys albigutta</u>	Shortfin mako	<u>Isurus paucus</u>
Southern flounder	<u>Paralichthys lethostigma</u>	Sheepshead	<u>Archosargus probatocephalus</u>
Florida pompano	<u>Trachinotus carolinus</u>	Snapper	
Gafftopsail catfish	<u>Bagre marinus</u>	Lane snapper	<u>Lutjanus synagris</u>
Great barracuda	<u>Sphyrna barracuda</u>	Red snapper	<u>Lutjanus campechanus</u>
Greater amberjack	<u>Seriola dumerila</u>	Vermillion snapper	<u>Rhomboplites aurorubens</u>
Grouper		Yellowtail snapper	<u>Ocyurus chrysurus</u>
Black grouper	<u>Mycteroperca bonasi</u>	Stingray	Family Dasyatidae
Jewfish	<u>Epinephelus itajare</u>	Swordfish	<u>Xiphias gladius</u>
Nassau grouper	<u>Epinephelus striatus</u>	Tilefish	<u>Lopholatilus chamaeleonticeps</u>
Scamp	<u>Mycteroperca phenax</u>	Triggerfish, gray	<u>Balistes capricus</u>
Warsaw grouper	<u>Epinephelus nigritus</u>	Tuna	
Yellowedge grouper	<u>Epinephelus flavolimbatus</u>	Atlantic bonita	<u>Sarda sarda</u>
Yellowfin grouper	<u>Mycteroperca venenosa</u>	Blackfin	<u>Thunnus atlanticus</u>
Yellowmouth grouper	<u>Mycteroperca interstitialis</u>	Bluefin	<u>Thunnus thynnus</u>
Gulf butterfish	<u>Peprilus burti</u>	little	<u>Euthynnus alletteratus</u>
Kingfish		Yellowfin	<u>Thunnus albacares</u>
Gulf kingfish	<u>Menticirrhus littoralis</u>	Wahoo	<u>Acanthocybium solanderi</u>
Southern kingfish	<u>Menticirrhus americanus</u>		
Mackerel		SHELLFISH	
King mackerel	<u>Scomberomorus cavalla</u>	Atlantic bay scallop	<u>Argopectin irradians</u>
Spanish mackerel	<u>Scomberomorus maculatus</u>	Crab	
Menhaden	<u>Brevortia</u> sp.	Blue crab	<u>Callinectes sapidus</u>
		Stone crab	<u>Menippe adinae</u>
		Eastern oyster	<u>Crassostrea virginica</u>

Table 1. (Cont'd).

Common Name	Scientific Name ^a
Lobster	Family Scyllaridae
Shovelnose	<u>Parulirus argus</u>
Spiny Shrimp	<u>Squilla empusa</u>
Mantis shrimp	<u>Penaeus aztecus</u>
Brown shrimp	<u>Penaeus setiferus</u>
White shrimp	<u>Penaeus duorarum</u>
Pink shrimp	<u>Sicyonia brevirostris</u>
Other shrimp	<u>Hymenopenaeus robustus</u>
Rock shrimp	<u>Xiphopenaeus kroyeri</u>
Royal red shrimp	
Seabob	
Squid	<u>Lolliguncula brevis</u>
Brief squid	<u>Loligo pealei</u>
Long-finned squid	

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

Table 2. Summary of commercial fishing regulations in Texas marine waters during 1989.

Organism	Method	Location	Product		Open Season	Time ^a	Exceptions
			Bait ^b	Bait			
Shrimp	Trawl	Bait and major bays	Bait	All year	All year	24 h	Night ^c trawling prohibited from 15 Aug until 15 Dec, inclusively, except in Laguna Madre.
	Trawl	Major bays	All ^b	15 May-15 Jul	Day ^d	Day ^d	300 pound catch limit in spring season.
	Trawl	Gulf (0-7 fathoms)	All ^b	15 Aug-15 Dec	Day ^d	Day ^d	None.
	Trawl	Gulf (>7 fathoms)	All ^b	All year	24 h	24 h	Trawling prohibited from 4-7 fathoms 1 Jun to 15 Jul, inclusive. Trawling for white shrimp allowed during day ^d in 0-4 fathoms.
Crabs	Trap, trawl, net, hook, and line	Bays ^e , Gulf ^f	All	All year	24 h	24 h	Trawling prohibited beyond 7 fathoms from 1 Jun to 15 Jul, inclusive.
Oysters	Dredge,	Bays ^e	Market Oysters	1 Nov-30 Apr	Day ^d	Day ^d	None.
Finfish	Traps (perch)	Bays ^e , Gulf ^f	Bait	All year	24 h	24 h	Seasons may be modified by Texas Dept. of Health and/or Texas Parks and Wildlife Department.
	(snapper)	Gulf ^f	Snapper	All year	24 h	24 h	None.
	Trotline	Bays ^e , Gulf ^f	All ^b	By county	24 h	24 h	Prohibited within 1 mile of any shoreline.
	Nets (seine) (purse)	Gulf ^f	All ^b Menhaden	By county	24 h	24 h	Legal in all counties with restrictions ^g and, Harris ^h ; Chambers ⁱ .
	Trawls	Gulf ^f	All ^b	By county	24 h	24 h	Legal in Gulf waters adjacent to all coastal counties, but prohibited within 1/2 mile of any shoreline or within 1 mile of any pass.
							Trawling legal in Gulf waters of Aransas, Brazoria, Jefferson, Matagorda and Willacy counties.

Restrictions and Definitions:

- ^a Gear Fishing Time
- ^b Red drum and spotted seatrout excluded.
- ^c Night is defined as the time between 30 min. after sunset and 30 min. before sunrise.
- ^d Day is defined as the time between 30 min. before sunrise and 30 min after sunset.
- ^e Permitted in designated portions of bays.
- ^f Permitted in Gulf waters with restrictions.
- ^g All gear must be removed from the water between 1 pm Friday and 1 pm Sunday.
- ^h Trotlines prohibited from Saturday of Memorial Day weekend until sunset on Labor Day.
- ⁱ Trotlines must be removed from the water between 1 pm Friday and 1 pm Sunday from Saturday of Memorial Day weekend until sunset on Labor Day.
- ^j 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), 1972-1989.

Year	Finfish										Shellfish						Grand Total
	Black drum	Flounder	Sheeps-head	Snapper	Other ^a	Total	Shrimp			Blue Crab	Eastern Oyster	Other ^b	Total				
							Brown and Pink	White	Other								
1972	1,164.9	453.8	237.4	1,238.0	3,661.9	6,755.9	79,909.1	18,218.3	13.2	98,140.6	6,464.4	3,917.2	5.4	108,527.5	115,283.5		
1973	1,207.9	341.9	269.4	781.4	4,672.4	7,273.1	60,142.0	22,953.1	1,025.0	84,120.0	6,881.1	1,927.2	5.4	92,933.8	100,206.9		
1974	1,356.8	507.1	369.8	742.9	4,985.3	7,962.0	58,983.5	17,785.5	1,437.3	78,206.3	6,087.6	1,243.7	14.9	85,552.6	93,514.6		
1975	1,171.6	492.6	318.8	627.4	5,017.2	7,627.6	55,142.8	14,619.9	746.1	70,508.8	5,991.5	1,756.0	6.5	78,262.9	85,890.4		
1976	2,090.6	434.5	379.0	495.1	4,699.4	8,098.6	58,550.8	15,492.3	363.3	74,406.3	6,668.4	3,880.7	20.3	84,975.7	93,074.3		
1977	1,453.5	310.9	293.9	440.0	2,795.7	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	107,734.9		
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	232.4	406.1	214.7	2,163.7	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	2,392.6	4,351.1	58,332.0	14,235.3	1,330.2	73,897.6	8,953.0	1,738.5	0.0	84,589.0	88,940.1		
1981	663.8	130.4	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	1,306.6	0.0	103,988.8	106,665.3		
1982	1,249.0	535.9	322.4	369.6	524.1	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	85,543.0		
1983	1,492.8	474.3	275.9	261.9	425.6	2,930.5	50,707.3	20,369.5	916.9	71,993.6	8,829.1	7,940.7	7.8	88,771.3	91,701.9		
1984	900.2	380.1	179.2	452.2	367.1	2,278.8	62,051.7	27,947.4	232.5	90,231.6	7,228.6	5,167.7	46.0	102,673.9	104,952.7		
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	917.7	1,102.6	3,299.8	67,782.6	27,469.7	1,743.2	96,995.4	9,481.9	5,649.3	199.5	112,326.2	115,625.9		
1987	858.7	551.3	132.9	701.5	1,147.5	3,391.8	68,726.4	19,651.4	5,123.7	93,501.5	11,688.5	2,897.1	122.5	108,209.6	111,601.4		
1988	739.1	273.8	168.1	806.8	1,882.1	3,870.0	58,864.1	16,509.9	4,670.6	80,044.6	10,428.2	2,269.6	309.1	93,051.4	96,921.4		
1989	610.9	154.2	42.0	589.1	1,069.8	2,466.0	62,453.9	10,850.3	3,807.6	77,111.8	9,066.2	1,979.9	202.0	88,360.0	90,826.0		

^a Other finfish listed in Tables 7 and 13.^b Other shellfish listed in Tables 9 and 15.

Table 4. Texas commercial finfish and shellfish ex-vessel value (\$ x 1000), 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Snapper	Other ^a	Total	Shrimp			Blue Crab	Eastern Oyster	Other ^b	Total			
							Brown and Pink	White	Other							
1972	135.4	119.7	19.6	572.0	881.7	1,728.5	65,049.4	15,619.6	1.1	80,670.1	652.6	2,486.6	0.8	83,810.1	85,538.6	
1973	154.3	105.3	24.5	401.5	1,270.2	1,955.8	65,002.0	22,864.2	272.3	88,138.5	830.4	1,812.6	0.8	90,782.3	92,738.1	
1974	221.4	149.0	26.5	415.8	1,348.9	2,161.5	51,370.6	16,031.9	341.8	67,744.3	832.4	1,115.8	2.7	69,695.1	71,856.7	
1975	207.7	176.0	27.2	393.4	1,611.3	2,415.8	71,180.3	16,132.4	151.7	87,464.4	947.7	1,392.0	1.4	89,805.6	92,221.3	
1976	508.8	179.8	41.3	353.1	1,808.1	2,891.1	95,881.2	23,440.5	67.7	119,389.4	1,179.3	3,200.2	4.6	123,773.5	126,664.6	
1977	399.8	170.8	28.8	420.9	1,318.8	2,339.0	100,815.9	24,627.2	235.2	125,678.2	1,946.7	2,991.7	4.1	130,620.8	132,959.9	
1978	607.5	173.2	39.2	403.5	1,447.5	2,671.0	101,798.7	38,837.6	344.6	140,980.8	2,003.8	2,205.6	4.4	145,194.7	147,865.6	
1979	602.3	190.0	55.7	261.5	1,538.6	2,648.3	117,237.2	34,687.5	381.0	152,305.8	2,146.0	1,048.7	0.2	155,500.7	158,149.0	
1980	539.7	153.7	66.5	351.3	2,044.5	3,155.6	113,972.9	25,637.8	433.2	140,043.8	2,455.8	2,692.3	0.0	145,192.0	148,347.7	
1981	378.1	138.2	42.0	267.8	1,487.4	2,313.5	133,226.9	31,774.9	317.9	165,319.8	1,928.5	2,028.5	0.0	169,276.8	171,590.3	
1982	782.5	521.4	79.6	669.2	136.8	2,189.5	131,658.5	43,724.9	504.4	175,887.7	2,375.1	5,313.7	5.0	183,581.5	185,771.0	
1983	971.0	445.6	65.9	383.5	118.5	1,984.5	125,430.4	45,682.8	330.7	171,443.8	3,250.2	11,336.7	3.3	186,034.0	188,018.5	
1984	449.3	351.0	36.8	818.3	119.5	1,774.9	125,724.7	53,593.0	198.5	179,516.2	2,252.4	8,308.7	22.9	190,100.2	191,875.2	
1985	427.3	445.2	41.1	1,242.4	555.8	2,711.9	113,421.2	47,796.6	164.9	161,382.7	3,309.7	8,754.8	127.7	173,574.9	176,286.8	
1986	411.2	540.2	35.6	1,711.2	901.3	3,599.5	167,301.9	60,860.2	925.6	229,087.8	3,170.5	10,486.8	106.8	242,851.9	246,451.4	
1987	598.0	538.8	37.8	1,313.9	1,122.2	3,610.7	144,691.3	37,609.2	3,647.3	185,947.9	4,473.9	6,891.4	57.4	197,370.6	200,981.3	
1988	565.7	337.5	47.6	1,563.1	2,036.3	4,550.3	130,469.5	33,871.8	2,546.4	166,887.8	4,325.8	5,669.6	154.4	177,037.6	181,587.9	
1989	474.6	187.1	12.6	1,185.3	1,168.7	3,028.3	119,761.7	22,325.7	2,018.2	144,105.6	3,946.3	4,903.9	132.0	153,087.8	156,116.1	

^a Other finfish listed in Tables 8 and 14.

^b Other shellfish listed in Tables 10 and 16.

Table 5. Weight (lb x 1000) of each species landed commercially from Texas bay systems, 1972-1989.

Year	Finfish										Shellfish					
	Black drum	Flounder	Sheeps-head	Snapper	Other ^a	Total	Shrimp			Blue Crab	Eastern Oyster	Other ^b	Total	Grand Total		
							Brown and Pink	White	Other							
1972	1,119.7	121.9	155.9	73.6	2,840.3	4,311.4	1,856.5	6,366.9	0.0	8,223.4	6,450.0	3,917.2	2.7	18,593.2	22,904.6	
1973	1,143.2	92.7	206.6	105.7	3,268.4	4,816.5	4,480.5	9,830.1	0.0	14,310.5	6,713.1	1,927.2	2.9	22,953.8	27,770.3	
1974	1,289.4	187.7	296.3	30.5	3,763.0	5,566.8	2,311.5	4,302.5	0.2	6,614.1	6,047.6	1,243.7	4.5	13,910.0	19,476.8	
1975	1,109.1	239.3	272.5	34.1	3,959.4	5,614.4	2,826.3	5,705.3	0.0	8,531.6	5,951.7	1,756.0	2.3	16,241.7	21,856.1	
1976	1,998.5	251.1	325.3	30.2	3,950.9	6,556.1	4,179.5	6,098.4	0.0	10,277.9	6,648.1	3,880.7	12.1	20,818.8	27,374.9	
1977	1,390.7	210.4	260.0	7.8	2,424.5	4,293.5	4,711.1	9,391.4	1.6	14,104.1	8,237.4	2,600.5	5.3	24,947.3	29,240.8	
1978	1,752.3	192.6	317.0	8.1	2,185.7	4,455.7	5,089.4	8,293.2	0.0	13,382.6	7,467.8	1,907.0	4.3	22,761.7	27,217.3	
1979	1,504.7	206.8	383.5	82.5	1,778.1	3,955.5	7,194.3	8,027.7	0.0	15,222.1	8,311.0	888.8	0.3	24,422.1	28,377.6	
1980	1,047.2	149.8	466.4	87.3	2,179.6	3,930.3	8,031.4	6,813.2	4.7	14,849.2	8,949.3	1,738.5	0.0	25,537.1	29,467.4	
1981	649.5	101.8	193.7	85.2	1,278.8	2,309.1	7,156.3	6,096.0	0.0	13,252.3	6,945.6	1,306.6	0.0	21,504.4	23,813.5	
1982	1,224.5	439.4	303.6	137.7	195.9	2,301.1	6,837.4	7,435.8	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	272.2	100.0	185.7	2,438.0	10,050.2	8,033.3	0.0	18,083.5	8,794.0	7,940.7	2.6	34,820.9	37,258.9	
1984	869.3	301.1	168.1	74.0	105.8	1,518.3	11,719.0	10,509.6	0.1	22,228.7	7,201.2	5,167.7	25.0	34,622.7	36,141.1	
1985	632.0	369.6	157.0	253.5	375.4	1,787.6	9,178.0	7,101.5	3.0	16,282.5	9,691.0	5,133.9	153.5	31,260.9	33,048.4	
1986	572.4	493.3	112.7	112.2	212.7	1,503.2	9,556.0	10,894.0	1.5	20,451.4	9,399.1	5,649.3	184.6	35,684.5	37,187.7	
1987	762.2	481.7	100.6	223.3	143.5	1,711.4	13,658.6	10,027.8	5.5	23,691.9	11,651.2	2,897.1	106.3	38,346.5	40,057.8	
1988	530.5	208.6	150.1	65.7	282.7	1,237.7	11,949.3	7,428.4	3.6	19,381.2	10,341.7	2,269.3	293.0	32,285.1	33,522.9	
1989	606.9	98.9	26.3	111.7	76.1	919.8	9,831.0	3,615.0	0.0	13,445.9	8,477.4	1,979.9	182.2	24,070.4	24,990.3	

^a Other finfish listed in Table 7.^b Other shellfish listed in Table 9.

Table 6. Ex-vessel value (\$ x 1000) of each species landed commercially from Texas bay systems, 1972-1989. Data based on MMPR.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Snapper	Other ^a	Total	Shrimp			Blue Crab	Eastern Oyster	Other ^b	Total			
							Brown and Pink	White	Other							
1972	129.9	36.4	11.5	3.6	751.4	932.8	537.7	4,587.6	0.0	5,125.3	651.5	2,486.6	0.4	8,263.7	9,196.5	
1973	146.0	32.8	17.8	5.6	974.8	1,176.9	1,852.5	7,457.4	0.0	9,309.9	808.1	1,812.6	0.5	11,931.0	13,107.9	
1974	213.3	61.8	19.0	2.0	1,145.7	1,441.7	606.3	3,346.9	0.0	3,953.3	828.9	1,115.8	0.9	5,898.9	7,340.6	
1975	200.9	95.5	22.0	3.5	1,396.4	1,718.2	852.1	4,329.7	0.0	5,181.8	943.1	1,392.0	0.6	7,517.5	9,235.7	
1976	492.9	113.5	33.9	3.7	1,627.0	2,270.9	1,650.2	6,304.2	0.0	7,954.4	1,176.7	3,200.2	2.7	12,334.0	14,605.0	
1977	387.8	121.6	23.3	1.6	1,189.9	1,724.2	2,823.7	8,270.3	0.3	11,094.4	1,944.5	2,991.7	1.8	16,032.4	17,756.5	
1978	600.7	149.1	37.6	0.9	1,369.2	2,157.5	1,917.8	10,693.1	0.0	12,610.9	2,003.5	2,205.6	1.2	16,821.3	18,978.8	
1979	593.5	173.6	51.9	7.7	1,375.1	2,201.8	6,095.0	11,111.8	0.0	17,206.9	2,145.9	1,048.7	0.1	20,401.5	22,603.3	
1980	536.7	122.5	65.1	6.3	1,958.4	2,689.0	6,830.8	10,067.5	1.4	16,899.7	2,455.0	2,692.3	0.0	22,047.0	24,736.0	
1981	373.5	117.6	40.3	5.8	1,396.0	1,933.2	4,157.5	7,233.7	0.0	11,391.2	1,926.8	2,028.5	0.0	15,346.5	17,279.7	
1982	773.5	439.0	74.7	14.5	39.5	1,341.2	5,621.2	12,924.0	0.2	18,545.4	2,374.3	5,313.7	4.0	26,237.3	27,578.5	
1983	965.4	394.4	65.1	11.1	44.5	1,480.4	12,022.0	12,608.7	0.0	24,630.7	3,239.6	11,336.7	1.3	39,208.3	40,688.7	
1984	440.0	295.4	34.3	8.3	23.6	801.6	8,964.2	13,311.6	0.3	22,276.1	2,245.5	8,308.7	13.3	32,843.5	33,645.2	
1985	421.1	382.5	36.2	25.5	58.4	923.8	5,885.6	9,435.8	0.8	15,322.2	3,301.1	8,754.8	117.8	27,496.0	28,419.8	
1986	402.3	485.5	30.0	12.5	55.3	985.6	9,090.5	16,213.3	0.9	25,304.8	3,138.1	10,486.8	100.0	39,029.7	40,015.3	
1987	532.3	477.4	27.3	20.8	36.8	1,094.7	13,721.2	13,546.3	3.4	27,270.8	4,461.3	6,891.4	50.6	38,674.1	39,768.8	
1988	444.2	278.0	41.5	10.9	141.8	916.4	11,366.2	10,649.4	1.8	22,017.4	4,293.2	5,669.2	146.9	32,126.7	33,043.1	
1989	470.7	126.4	9.0	17.8	24.1	648.0	8,011.6	4,597.5	0.0	12,609.1	3,666.4	4,850.5	126.8	21,252.8	21,917.1	

^a Other finfish listed in Table 8.

^b Other shellfish listed in Table 10.

Table 7. Weight (lb x 1000) of "other" finfish species landed commercially from Texas bay systems, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alligator gar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic croaker	35.7	92.6	76.6	83.3	104.4	30.0	19.8	16.4	13.6	2.2	60.4	19.5	1.8
Atlantic cutlassfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic spadefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Bluefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eels, cusk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida pompano	3.9	1.8	7.8	5.1	2.4	0.4	0.5	2.1	0.4	0.2	0.2	5.1	2.0
Gafftopsail catfish	22.6	55.1	63.4	67.8	70.1	60.8	50.4	39.0	45.3	6.9	15.7	37.5	22.1
Greater amberjack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gulf butterfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kingfish, unclassified	15.7	19.3	7.7	19.2	33.0	6.6	4.8	7.9	6.2	2.7	47.9	8.7	2.2
Kingfish, Southern	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Red drum	1,370.0	1,515.3	1,781.0	2,026.1	1,950.6	899.8	853.5	676.9	1,106.4	604.4	0.0	0.0	0.0
Seatrout, sand	19.5	5.8	1.0	9.4	43.8	6.5	6.4	9.8	3.5	16.2	3.6	1.2	3.6
Seatrout, spotted	1,237.5	1,437.7	1,711.3	1,563.8	1,564.5	1,235.0	1,118.6	899.3	928.3	617.2	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stingrays	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unclassified food	48.9	45.2	42.3	51.8	43.4	44.1	80.0	81.9	31.0	19.3	23.2	42.2	19.0
Unclassified scrap	86.7	95.4	71.6	132.1	131.2	140.5	51.6	44.8	44.8	9.7	45.1	71.5	54.4
Total	2,840.3	3,268.2	3,762.6	3,958.7	3,943.4	2,423.7	2,185.7	1,778.1	2,179.6	1,278.8	195.9	185.7	105.8

Table 7. (Continued).

Species	Year			
	1985	1986	1987	1988
Alligator gar	0.0	0.0	3.0	6.8
Atlantic croaker	35.8	36.6	41.7	14.1
Atlantic cutlassfish	0.0	0.0	3.9	0.0
Atlantic moonfish	0.1	0.1	0.0	0.0
Atlantic spadefish	0.0	0.4	0.0	0.0
Bluefish	0.0	0.0	0.0	0.1
Eels, cusk	0.0	0.0	0.0	0.0
Florida pompano	2.7	13.5	2.4	3.5
Gafftopsail catfish	27.2	17.5	7.6	8.0
Greater amberjack	0.0	0.0	0.0	0.4
Gulf butterfish	0.0	0.1	0.0	0.0
Kingfish, unclassified	6.2	4.0	3.8	2.3
Kingfish, Southern	0.0	0.0	0.0	0.1
Mackerel, Spanish	1.1	0.0	0.0	0.1
Red drum	0.0	0.0	0.0	0.0
Seatrout, sand	2.6	4.6	1.2	0.5
Seatrout, spotted	0.0	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.1
Shark, unclassified	0.6	0.1	1.7	5.8
Stingrays	0.0	0.0	0.0	0.0
Tuna, unclassified	0.0	0.0	0.0	1.0
Unclassified food	48.3	32.5	15.0	32.5
Unclassified scrap	250.9	103.2	63.1	207.4
Total	375.4	212.7	143.4	282.7

4.6

6.6

0.0

0.0

0.0

0.0

0.1

0.0

0.3

1.2

1.1

0.0

0.0

8.6

0.0

0.0

0.0

0.2

0.0

0.0

0.0

0.0

0.0

0.1

0.4

0.4

0.1

0.2

0.2

12.8

40.0

76.1

Table 8. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from Texas bay systems, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alligator gar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic croaker	2.2	6.7	5.5	7.8	10.1	3.3	2.2	2.7	1.8	0.5	10.6	4.2	0.5
Atlantic cutlassfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic speckfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Bluefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eels, cusk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida pompano	1.7	0.8	3.5	2.5	1.2	0.2	0.5	2.6	0.6	0.3	0.4	2.4	1.0
Gafftopsail catfish	2.2	6.9	5.7	8.6	10.7	9.7	12.2	8.6	10.3	1.6	4.2	7.8	5.3
Greater amberjack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gulf butterfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kingfish, unclassified	1.5	2.0	0.8	2.7	5.1	1.2	0.8	1.8	1.1	0.7	10.6	2.1	0.6
Kingfish, Southern	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Red drum	383.0	485.7	569.0	760.6	856.4	483.9	588.3	564.1	1,016.5	683.9	0.0	0.0	0.0
Seatrout, sand	2.8	0.7	0.1	1.7	18.2	3.6	3.9	6.6	1.4	2.5	1.2	0.6	2.1
Seatrout, spotted	351.3	464.2	553.6	598.9	704.7	660.2	739.7	770.4	911.1	699.9	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Stingrays	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unclassified food	3.5	3.1	3.6	5.1	5.1	8.5	15.5	14.4	10.1	5.2	7.6	16.5	6.2
Unclassified scrap	3.2	4.8	3.6	8.3	9.5	18.9	6.0	4.0	5.5	1.3	5.0	10.8	7.6
Total	751.4	974.7	1,145.5	1,396.1	1,621.0	1,189.6	1,369.2	1,375.1	1,958.4	1,396.0	39.5	44.5	23.6

Table 8. (Continued).

Species	Year				
	1985	1986	1987	1988	1989
Alligator gar	0.0	0.0	2.6	6.1	3.9
Atlantic croaker	6.6	8.4	13.1	3.4	1.8
Atlantic cutlassfish	0.0	0.0	0.3	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0	0.0
Atlantic spadefish	0.0	0.2	0.0	0.0	0.0
Bluefish	0.0	0.0	0.0	0.1	0.0
Eels, cusk	0.0	0.0	0.0	0.0	0.0
Florida pompano	2.6	12.6	2.4	3.3	0.2
Gafftopsail catfish	6.8	4.9	2.1	2.6	0.5
Greater amberjack	0.0	0.0	0.0	0.2	1.1
Gulf butterfish	0.0	0.1	0.0	0.0	0.0
Kingfish, unclassified	1.8	1.5	1.5	0.9	3.3
Kingfish, Southern	0.0	0.0	0.0	0.1	0.0
Mackerel, Spanish	0.6	0.0	0.0	0.0	0.0
Red drum	0.0	0.0	0.0	0.0	0.0
Seatrout, sand	0.9	1.6	0.5	0.2	0.1
Seatrout, spotted	0.0	0.0	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.1	0.0
Shark, unclassified	0.3	0.0	0.6	2.4	0.1
Stingrays	0.0	0.0	0.0	0.0	0.0
Tuna, unclassified	0.0	0.0	0.0	0.3	0.3
Unclassified food	20.3	10.9	5.5	35.6	4.9
Unclassified scrap	18.4	15.1	8.0	73.9	4.6
Total	58.4	55.2	36.6	129.1	20.7

Table 9. Weight (lb x 1000) of "other" shellfish species landed commercially from Texas bay systems, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Atlantic bay scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crab, stone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
Shrimp, mantis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Squid, unclassified	2.7	2.9	4.5	2.3	12.1	5.3	4.3	0.3	0.0	0.0	10.1	2.6	10.0
Total	2.7	2.9	4.5	2.3	12.1	5.3	4.3	0.3	0.0	0.0	10.1	2.6	25.0

Table 9. (Continued).

Species	Year			
	1985	1986	1987	1988
Atlantic bay scallop	0.1	5.3	0.0	0.0
Crab, stone	135.8	153.7	60.6	267.8
Shrimp, mantis	0.0	0.0	0.1	0.0
Squid, unclassified	17.6	25.7	45.6	25.1
Total	153.5	184.6	106.3	293.0

Species	Year	
	1989	1989
Atlantic bay scallop	1.2	1.2
Crab, stone	172.9	172.9
Shrimp, mantis	0.0	0.0
Squid, unclassified	8.1	8.1
Total	190.4	190.4

Table 10. Ex-vessel value (\$ x 1000) of "other" shellfish species landed commercially from Texas bay systems, 1972-1989.

Species	Year													
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1989
Atlantic bay scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crab, stone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Shrimp, mantis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Squid, unclassified	0.4	0.5	0.9	0.6	2.7	1.8	1.2	0.1	0.0	0.0	4.0	1.3	3.7	
Total	0.4	0.5	0.9	0.6	2.7	1.8	1.2	0.1	0.0	0.0	4.0	1.3	13.3	

Table 10. (Continued).

Species	Year			
	1985	1986	1987	1989
Atlantic bay scallop	0.4	2.4	0.0	0.1
Crab, stone	110.2	77.7	31.2	122.2
Shrimp, mantis	0.0	0.0	0.1	0.0
Squid, unclassified	7.3	19.9	19.3	4.5
Total	117.8	100.0	50.6	126.8

Table 11. Weight (lb x 1000) of each species landed commercially from the Gulf of Mexico, 1972-1989.

Year	Finfish										Shellfish					Grand Total	
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other ^a	Brown and Pink		Total	Shrimp		Blue crab	Other ^c		Total
									White	Other ^b		White	Other ^b				
1972	45.1	331.9	81.5	18.1	22.7	97.5	1,238.0	565.9	2,400.8	78,052.6	11,851.5	13.2	89,917.2	14.4	2.7	89,934.3	92,335.1
1973	64.7	249.2	62.9	52.3	16.0	100.2	781.4	1,032.2	2,358.9	55,661.5	13,123.0	1,025.0	69,809.5	168.0	2.5	69,980.0	72,339.0
1974	67.4	319.4	73.6	82.7	20.0	85.0	742.6	895.1	2,285.7	56,672.0	13,482.9	1,437.2	71,592.2	40.0	10.5	71,642.6	73,928.3
1975	62.5	253.3	46.3	11.9	27.0	71.3	627.0	913.9	2,013.2	52,316.5	8,914.6	746.1	61,977.2	39.7	4.2	62,021.1	64,034.3
1976	92.0	183.4	53.7	21.6	26.8	69.2	490.1	605.7	1,542.5	54,371.3	9,393.8	363.3	64,128.4	20.3	8.2	64,156.9	65,699.4
1977	62.8	100.5	33.9	0.9	20.0	21.7	439.5	321.3	1,000.6	67,186.4	10,028.8	258.7	77,473.9	11.2	8.5	77,493.6	78,494.1
1978	33.2	44.6	10.9	28.3	13.7	39.9	388.3	172.0	730.8	57,240.3	13,171.5	332.3	70,744.1	1.8	11.2	70,757.1	71,487.9
1979	26.7	25.7	22.6	28.8	7.7	14.3	214.7	252.3	592.8	43,265.0	8,446.5	719.2	52,430.7	0.5	0.6	52,431.8	53,024.6
1980	11.2	45.1	7.1	4.4	2.2	23.1	231.6	96.0	420.8	50,300.6	7,422.2	1,325.6	59,048.3	3.6	0.0	59,051.9	59,472.7
1981	14.3	28.7	9.2	10.3	13.7	29.8	165.9	95.5	367.4	71,337.8	10,064.5	1,075.7	82,477.9	6.4	0.0	82,484.3	82,851.7
1982	24.5	96.5	18.8	3.2	24.1	64.8	369.6	98.4	699.9	44,549.0	10,852.3	1,210.6	56,611.8	2.7	3.3	56,617.8	57,317.7
1983	12.0	75.0	3.7	20.4	17.2	34.8	261.9	67.6	492.5	40,657.1	12,336.2	916.9	53,910.1	35.1	5.2	53,950.4	54,442.9
1984	30.9	79.0	11.2	9.8	12.7	33.1	452.2	131.7	760.5	50,332.7	17,437.8	232.4	68,002.9	27.3	20.9	68,051.2	68,811.7
1985	11.9	73.9	26.1	42.7	6.0	250.1	663.5	331.0	1,405.3	48,254.1	17,100.7	603.2	65,958.0	31.0	18.2	66,007.2	67,412.6
1986	15.6	67.1	18.6	3.8	11.3	224.2	917.7	538.2	1,796.4	58,226.5	16,575.7	1,741.7	76,544.0	82.9	14.8	76,641.7	78,438.1
1987	96.4	69.6	32.3	0.7	8.1	345.1	701.4	426.7	1,680.4	55,067.8	9,623.6	5,118.1	69,809.5	37.3	16.3	69,863.1	71,543.5
1988	209.0	65.2	18.0	1.2	6.5	469.8	806.8	1,056.3	2,632.3	46,914.5	9,081.5	4,667.0	60,663.0	86.5	16.2	60,765.6	63,398.2
1989	4.1	55.3	15.7	25.7	13.0	305.6	589.1	537.9	1,546.2	52,200.9	7,047.0	3,807.6	63,055.5	35.8	19.8	60,111.1	64,657.3

^a Other finfish listed in Table 13.

^b Other shrimp include *Squilla empusa*, *Sicyonia brevirostris*, *Hymenopenaeus robustus*, and *Xiphopenaeus kroyeri*.

^c Other shellfish listed in Table 15.

Table 12. Ex-vessel value (\$ x 1000) of each species landed commercially from the Gulf of Mexico, 1972-1989.

Year	Finfish											Shellfish				Grand Total	
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other ^a	Shrimp			Blue crab	Other ^c				
									Brown and Pink	White	Other ^b						
Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total				
1972	5.5	83.3	8.2	0.9	2.6	10.7	572.0	110.4	793.6	64,511.8	11,032.0	1.1	75,544.9	1.1	0.4	75,546.4	76,339.9
1973	8.3	72.5	6.7	2.9	2.4	14.5	401.5	282.5	771.3	63,149.6	15,406.8	272.3	78,828.7	22.4	0.3	78,851.3	79,622.7
1974	8.1	87.3	7.5	4.9	3.0	10.9	415.6	174.2	711.6	50,764.3	12,685.0	341.7	63,791.0	3.5	1.7	63,796.2	64,507.8
1975	6.9	80.5	5.3	1.0	5.0	11.2	393.2	194.5	697.5	70,328.2	11,802.7	151.7	82,282.6	4.6	0.9	82,288.1	82,985.6
1976	15.9	66.3	7.4	1.7	5.0	13.0	348.5	162.4	620.2	94,231.1	17,136.3	67.7	111,435.0	2.6	1.9	111,439.5	112,059.7
1977	12.0	49.2	5.5	0.2	4.7	5.1	420.6	117.6	614.9	97,992.2	16,356.9	234.9	114,583.9	2.2	2.4	114,588.5	115,203.3
1978	6.8	24.1	1.6	2.5	4.4	9.8	403.5	60.7	513.5	99,880.9	28,144.5	344.6	128,369.9	0.3	3.2	128,373.4	128,886.8
1979	8.8	16.5	3.8	2.4	2.8	6.7	261.5	143.9	446.5	111,142.2	23,575.6	381.0	135,098.9	0.2	0.2	135,099.2	135,545.7
1980	3.0	31.2	1.4	0.7	1.1	9.7	351.3	68.2	466.6	107,142.1	15,570.3	431.8	123,144.2	0.8	0.0	123,145.0	123,611.6
1981	4.6	20.6	1.7	1.3	7.3	14.2	267.8	62.8	380.3	129,069.4	24,541.3	317.9	153,928.6	1.7	0.0	153,930.3	154,310.6
1982	9.0	82.4	4.9	0.5	13.1	42.7	669.2	26.5	848.4	126,037.3	30,800.9	504.2	157,342.4	0.8	1.0	157,344.1	158,192.5
1983	5.6	51.2	0.9	3.3	10.2	31.9	383.5	17.5	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	2.5	1.4	8.7	27.5	818.3	50.0	973.3	116,760.5	40,281.4	198.2	157,240.1	6.9	9.6	157,256.7	158,230.0
1985	6.2	62.8	4.8	5.7	4.0	212.7	1,242.4	249.5	1,788.1	107,535.6	38,360.8	164.1	146,060.5	8.5	9.9	146,078.9	147,867.0
1986	8.9	54.7	5.6	0.9	7.7	216.4	1,711.2	608.5	2,613.9	158,211.4	44,646.9	924.7	203,783.0	32.4	6.8	203,822.2	206,436.1
1987	65.7	61.3	10.5	0.1	5.8	452.8	1,313.7	606.0	2,516.0	130,970.1	24,062.9	3,644.0	158,677.1	12.6	6.8	158,696.5	161,212.4
1988	122.0	59.5	6.2	0.2	5.3	660.3	1,563.1	1,230.5	3,646.5	119,102.8	23,222.4	2,544.6	144,869.8	32.7	7.4	144,909.9	148,556.9
1989	3.9	60.7	3.6	4.8	11.6	422.5	1,185.6	690.8	2,383.7	111,524.9	17,531.7	2,018.2	131,074.8	18.1	5.2	131,090.1	133,401.8

^a Other finfish listed in Table 1/4.

^b Other shrimp include *Squilla empusa*, *Sicyonia brevirostris*, *Hymenopaneus robustus*, and *Xiphopenaeus kroyeri*.

^c Other shellfish listed in Table 1/6.

Table 13. Weight (lb x 1000) of "other" finfish species landed commercially from the Gulf of Mexico, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alligator gar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic croaker	22.7	29.9	95.3	32.7	8.9	2.8	10.2	3.7	2.7	2.4	0.4	1.1	1.2
Atlantic cutlassfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic spadefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Blue runner	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bluefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Codfish, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Crevalle jack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dolphin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Eels, cusk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida pompano	1.1	0.2	4.3	1.5	3.3	0.5	0.5	1.5	0.8	0.2	3.6	0.0	4.0
Gefftopsail catfish	6.0	12.5	14.2	20.8	21.4	13.4	27.1	0.4	0.4	2.6	1.4	5.8	4.8
Great barracuda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greater amberjack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7
Gulf butterfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kingfish, unclassified	92.8	71.2	125.9	150.5	47.1	26.8	19.8	8.8	13.3	13.5	25.2	11.5	14.9
Kingfish, Southern	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mackerel, king	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.2	0.0	0.0	0.0	0.0	1.2
Porgy, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red drum	97.8	162.1	140.5	94.3	78.7	51.0	7.6	13.1	8.1	9.0	0.0	0.0	0.0
Seatrout, sand	0.5	0.6	0.0	5.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Seatrout, spotted	261.9	531.2	284.9	250.5	204.1	111.8	43.5	131.0	49.7	28.6	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, shortfin mako	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8
Swordfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tilefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Triggerfish, gray	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuna, blackfin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	33.3
Tuna, little	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuna, yellowfin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
Tuna, Atlantic bonito	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
Unclassified food	78.1	86.9	99.1	255.8	179.0	72.0	27.4	31.0	12.1	34.4	67.1	47.6	29.1
Unclassified scrap	4.9	137.6	130.9	102.2	62.0	43.0	36.1	62.6	8.8	4.9	0.7	1.6	2.6
Wahoo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	565.9	1,032.2	895.1	913.9	605.7	321.3	172.0	252.3	96.0	95.5	98.4	67.6	131.7

Table 13. (Continued).

Species	Year			
	1985	1986	1987	1988
Alligator gar	0.0	0.0	0.0	0.0
Atlantic croaker	1.9	2.5	5.3	0.3
Atlantic cutlassfish	0.0	0.0	0.0	1.5
Atlantic moonfish	0.0	0.0	0.0	0.0
Atlantic speckfish	0.0	0.1	0.0	0.0
Blue runner	0.0	0.0	0.0	0.0
Bluefish	0.0	1.3	10.3	0.4
Codfish, unclassified	0.0	0.5	0.1	0.0
Crevalle jack	0.0	0.0	1.7	0.0
Dolphin	0.2	2.9	1.9	3.4
Eels, cusk	0.0	0.0	0.0	1.0
Florida pompano	13.0	1.7	12.6	0.1
Gafftopsail catfish	18.3	12.3	11.1	0.6
Great barracuda	0.0	0.0	0.0	2.5
Greater amberjack	27.9	106.1	96.5	0.1
Gulf butterfish	4.9	0.1	2.2	173.1
Kingfish, unclassified	20.5	14.9	29.6	29.3
Kingfish, Southern	0.0	0.0	0.0	58.1
Mackerel, king	2.5	1.5	2.5	0.7
Mackerel, Spanish	0.2	0.2	0.8	6.2
Porgy, unclassified	0.0	0.0	0.0	0.1
Red drum	0.0	0.0	0.0	0.0
Seatrout, sand	2.3	0.6	2.6	0.0
Seatrout, spotted	0.0	0.0	0.0	0.7
Shark, blacktip	0.0	0.7	4.9	0.0
Shark, shortfin mako	0.5	6.9	4.1	2.2
Shark, unclassified	63.4	105.3	31.3	1.2
Swordfish	31.9	85.5	46.4	33.8
Tilefish	41.8	7.3	35.6	22.3
Triggerfish, gray	0.0	0.3	0.2	214.9
Tuna, blackfin	0.0	0.3	0.0	0.7
Tuna, bluefin	2.7	1.1	1.4	0.5
Tuna, little	0.0	0.0	0.2	0.0
Tuna, unclassified	22.8	79.0	14.9	0.0
Tuna, yellowfin	1.5	100.6	79.8	37.0
Tuna, Atlantic bonito	0.0	0.0	0.1	475.5
Unclassified food	67.0	3.8	20.6	0.0
Unclassified scrap	7.5	2.6	9.1	31.5
Wahoo	0.0	0.1	1.0	7.5
Total	331.0	538.2	426.7	1,056.3
				537.9

Table 14. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from the Gulf of Mexico, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alligator gar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic croaker	1.2	2.2	5.8	3.4	1.5	0.6	1.5	0.6	0.2	0.5	0.1	0.0	0.0
Atlantic cutlassfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic spadefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Blue runner	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bluefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Codfish, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Crevalle jack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dolphin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Eels, cusk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida pompano	0.4	0.1	2.4	0.7	2.5	0.3	0.6	2.3	1.1	0.3	3.2	0.1	5.6
Gafftopsail catfish	0.5	1.6	1.7	2.9	3.0	4.3	12.7	0.1	0.1	2.1	0.3	1.9	2.0
Great barracuda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greater amberjack	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
Gulf butterfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kingfish, unclassified	8.4	7.5	12.7	14.9	6.4	4.2	2.7	1.2	2.3	2.8	5.1	2.8	3.4
Kingfish, Southern	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mackerel, king	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.2	0.0	0.0	0.0	0.0	0.9
Porgy, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red drum	25.8	53.6	45.0	34.7	31.6	27.6	4.4	10.2	8.3	11.6	0.0	0.0	0.0
Seatout, sand	0.1	0.1	0.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Seatout, spotted	68.7	181.7	91.5	102.2	91.9	63.0	29.4	112.4	50.4	38.0	0.0	0.0	0.0
Shark, blacktip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, shortfin mako	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shark, unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
Swordfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tilefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Triggerfish, gray	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuna, blackfin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	8.4
Tuna, little	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Tuna, yellowfin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Tuna, Atlantic bonito	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unclassified food	5.0	7.5	8.7	27.1	19.5	12.8	5.8	9.3	5.2	7.2	17.6	24.4	11.5
Unclassified scrap	0.2	8.1	6.4	6.6	5.5	4.9	3.7	7.5	0.7	0.4	0.1	0.2	0.2
Wahoo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	110.4	262.5	174.2	194.5	162.4	117.6	60.7	143.9	68.2	62.8	26.5	17.5	50.0

Table 14. (Continued).

Species	Year			
	1985	1986	1987	1988
Alligator gar	0.0	0.0	0.0	0.4
Atlantic croaker	0.4	0.8	1.9	0.5
Atlantic cutlassfish	0.0	0.0	0.0	0.0
Atlantic moonfish	0.0	0.0	0.0	0.0
Atlantic spade fish	0.0	0.0	0.0	0.0
Blue runner	0.0	0.0	0.0	0.0
Bluefish	0.0	0.7	4.4	0.1
Codfish, unclassified	0.0	0.2	0.1	0.0
Crevalle jack	0.0	0.0	0.4	0.0
Dolphin	0.2	3.0	2.2	3.1
Eels, cusk	0.0	0.0	0.0	0.5
Florida pompano	12.3	2.4	15.6	0.1
Gafftopsail catfish	7.8	5.5	2.5	0.8
Great barracuda	0.0	0.0	0.0	0.1
Greater amberjack	19.2	58.6	58.6	115.7
Gulf butterfish	2.6	0.0	1.1	0.0
Kingfish, unclassified	6.5	5.2	10.1	10.4
Kingfish, Southern	0.0	0.0	0.0	0.2
Mackerel, king	2.1	1.1	1.5	5.4
Mackerel, Spanish	0.1	0.2	0.3	0.0
Porgy, unclassified	0.0	0.0	0.0	0.0
Red drum	0.0	0.0	0.0	0.0
Seatrout, sand	2.1	0.3	1.9	0.0
Seatrout, spotted	0.0	0.0	0.0	0.0
Shark, blacktip	0.0	0.3	6.9	1.2
Shark, shortfin mako	0.4	6.3	10.1	0.9
Shark, unclassified	27.8	56.1	13.2	15.0
Swordfish	93.3	251.3	198.3	65.4
Tilefish	39.5	6.1	30.6	230.8
Triggerfish, gray	0.0	0.1	0.1	0.4
Tuna, blackfin	0.0	0.1	0.0	0.2
Tuna, bluefin	0.3	4.0	10.6	0.0
Tuna, little	0.0	0.0	0.1	0.0
Tuna, unclassified	12.8	102.8	18.2	67.6
Tuna, yellowfin	2.0	100.6	209.2	685.0
Tuna, Atlantic bonito	0.0	0.0	0.1	0.0
Unclassified food	18.6	2.0	5.1	13.4
Unclassified scrap	1.4	0.5	1.5	0.2
Wahoo	0.0	0.1	1.3	13.1
Total	249.5	608.5	606.0	1,230.5
				690.8

Table 15. Weight (lb x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Crab, stone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Lobster, shovelnose	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lobster, spiny	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Squid, unclassified	2.7	2.5	10.5	4.2	8.2	8.5	11.2	0.6	0.0	0.0	3.3	5.2	17.0
Total	2.7	2.5	10.5	4.2	8.2	8.5	11.2	0.6	0.0	0.0	3.3	5.2	20.9

Table 15. (Continued).

Species	Year			
	1985	1986	1987	1988
Crab, stone	3.2	0.0	1.5	3.6
Lobster, shovelnose	0.0	0.0	0.0	0.1
Lobster, spiny	0.0	0.0	0.0	0.0
Squid, unclassified	15.1	14.8	14.7	12.5
Total	18.2	14.8	16.3	16.2
				19.8

Table 16. Ex-vessel value (\$ x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico, 1972-1989.

Species	Year												
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Crab, stone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Lobster, shovelnose	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lobster, spiny	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Squid, unclassified	0.4	0.3	1.7	0.9	1.9	2.4	3.2	0.2	0.0	0.0	1.0	2.0	6.0
Total	0.4	0.3	1.7	0.9	1.9	2.4	3.2	0.2	0.0	0.0	1.0	2.0	9.6

Table 16. (Continued).

Species	Year		
	1985	1986	1987
Crab, stone	3.8	0.0	0.7
Lobster, shovelnose	0.0	0.0	0.0
Lobster, spiny	0.0	0.0	0.0
Squid, unclassified	6.1	6.8	6.1
Total	9.9	6.8	6.8

Table 17. Ex-vessel price (\$/lb) of finfish, 1972-1989.

Year	Black drum		Flounder		Sheepshead		Snapper		Other	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1972	0.11-0.14	0.12	0.26-0.31	0.26	0.07-0.12	0.08	0.45-0.48	0.46	0.05-0.27	0.24
1973	0.11-0.15	0.13	0.31-0.41	0.31	0.09-0.13	0.09	0.47-0.54	0.51	0.09-0.40	0.27
1974	0.13-0.18	0.16	0.29-0.38	0.29	0.06-0.12	0.07	0.40-0.62	0.56	0.06-0.31	0.27
1975	0.15-0.20	0.18	0.36-0.44	0.36	0.08-0.16	0.09	0.55-0.66	0.63	0.10-0.37	0.32
1976	0.20-0.27	0.24	0.30-0.50	0.41	0.10-0.20	0.11	0.71-0.95	0.71	0.12-0.42	0.38
1977	0.21-0.33	0.28	0.50-0.64	0.55	0.09-0.25	0.10	0.49-0.97	0.96	0.27-0.57	0.47
1978	0.20-0.38	0.34	0.50-0.79	0.73	0.12-0.21	0.12	0.90-1.12	1.04	0.11-0.63	0.59
1979	0.30-0.42	0.39	0.45-0.90	0.82	0.12-0.25	0.14	1.15-1.33	1.22	0.08-0.75	0.71
1980	0.45-0.62	0.51	0.55-1.00	0.79	0.14-0.30	0.14	1.15-1.52	1.52	0.33-0.94	0.85
1981	0.31-0.62	0.57	0.35-1.19	1.06	0.20-0.28	0.21	1.29-1.95	1.61	0.17-1.03	0.98
1982	0.37-0.69	0.63	0.93-1.20	0.97	0.21-0.30	0.25	1.59-1.85	1.81	0.11-0.30	0.26
1983	0.25-0.68	0.65	0.60-1.08	0.94	0.20-0.26	0.24	1.46-1.95	1.46	0.12-0.28	0.28
1984	0.39-0.54	0.50	0.91-1.09	0.92	0.20-0.38	0.21	1.63-1.95	1.81	0.17-0.40	0.33
1985	0.55-0.95	0.66	0.62-1.08	1.00	0.22-0.38	0.22	1.38-1.93	1.87	0.12-0.63	0.44
1986	0.42-0.72	0.70	0.95-1.07	0.96	0.25-0.41	0.27	1.30-2.01	1.86	0.17-0.87	0.82
1987	0.40-0.74	0.70	0.90-1.11	0.98	0.27-0.42	0.28	1.68-2.00	1.87	0.14-0.98	0.98
1988	0.71-0.94	0.77	0.88-1.42	1.23	0.22-0.42	0.28	1.92-2.51	1.94	0.20-1.11	1.08
1989	0.30-1.08	0.78	0.80-1.39	1.21	0.30-0.45	0.30	1.87-2.65	2.01	0.15-1.30	1.09

Table 18. Ex-vessel price (\$/lb) of shellfish, 1972-1989.

Year	Brown and Pink		Shrimp White		Other		Blue Crab		Eastern Oyster	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1972	0.28-1.21	0.81	0.20-0.88	0.86	0.08-0.08	0.08	0.10-0.10	0.10	0.57-0.70	0.63
1973	0.32-1.08	1.08	0.51-1.10	1.00	0.27-1.11	0.27	0.10-0.12	0.12	0.61-1.09	0.94
1974	0.19-1.13	0.87	0.30-1.00	0.90	0.23-0.27	0.24	0.12-0.14	0.14	0.76-1.02	0.90
1975	0.21-1.29	1.29	0.21-1.10	1.10	0.09-0.27	0.20	0.15-0.16	0.16	0.65-0.80	0.79
1976	0.32-1.64	1.64	0.47-1.72	1.51	0.13-0.19	0.19	0.15-0.18	0.18	0.61-0.82	0.82
1977	0.35-1.54	1.40	0.49-1.90	1.27	0.20-1.45	0.90	0.21-0.27	0.24	0.88-1.20	1.15
1978	0.30-1.86	1.63	0.67-1.81	1.81	0.25-1.65	1.04	0.24-0.30	0.27	1.00-1.16	1.16
1979	0.62-2.32	2.32	0.32-2.32	2.11	0.25-0.53	0.53	0.25-0.30	0.26	1.07-1.55	1.18
1980	0.66-1.95	1.95	0.75-1.86	1.80	0.29-0.53	0.33	0.27-0.34	0.27	1.48-1.64	1.55
1981	0.45-1.70	1.70	0.82-1.97	1.97	0.21-0.30	0.30	0.26-0.41	0.28	1.55-1.69	1.55
1982	0.68-2.56	2.56	1.12-2.40	2.39	0.35-0.45	0.42	0.30-0.39	0.30	1.44-1.58	1.46
1983	0.93-2.47	2.47	0.96-2.58	2.24	0.36-0.54	0.36	0.33-0.48	0.37	1.30-1.43	1.43
1984	0.44-2.03	2.03	0.87-3.12	1.92	0.85-2.48	0.85	0.31-0.51	0.31	1.61-1.78	1.61
1985	0.35-1.97	1.97	0.51-1.97	1.97	0.25-0.28	0.27	0.33-0.38	0.34	1.65-1.81	1.71
1986	0.56-2.47	2.47	0.50-2.55	2.22	0.27-0.65	0.53	0.33-0.40	0.33	1.03-1.96	1.86
1987	0.40-2.11	2.11	0.81-2.20	1.91	0.16-0.90	0.71	0.36-0.46	0.38	2.06-2.47	2.38
1988	0.59-2.22	2.22	0.71-2.05	2.05	0.42-0.72	0.55	0.40-0.56	0.41	2.50-2.70	2.50
1989	0.53-1.91	1.91	0.60-2.06	2.06	0.38-0.47	0.44	0.41-0.50	0.44	2.37-2.97	2.48

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

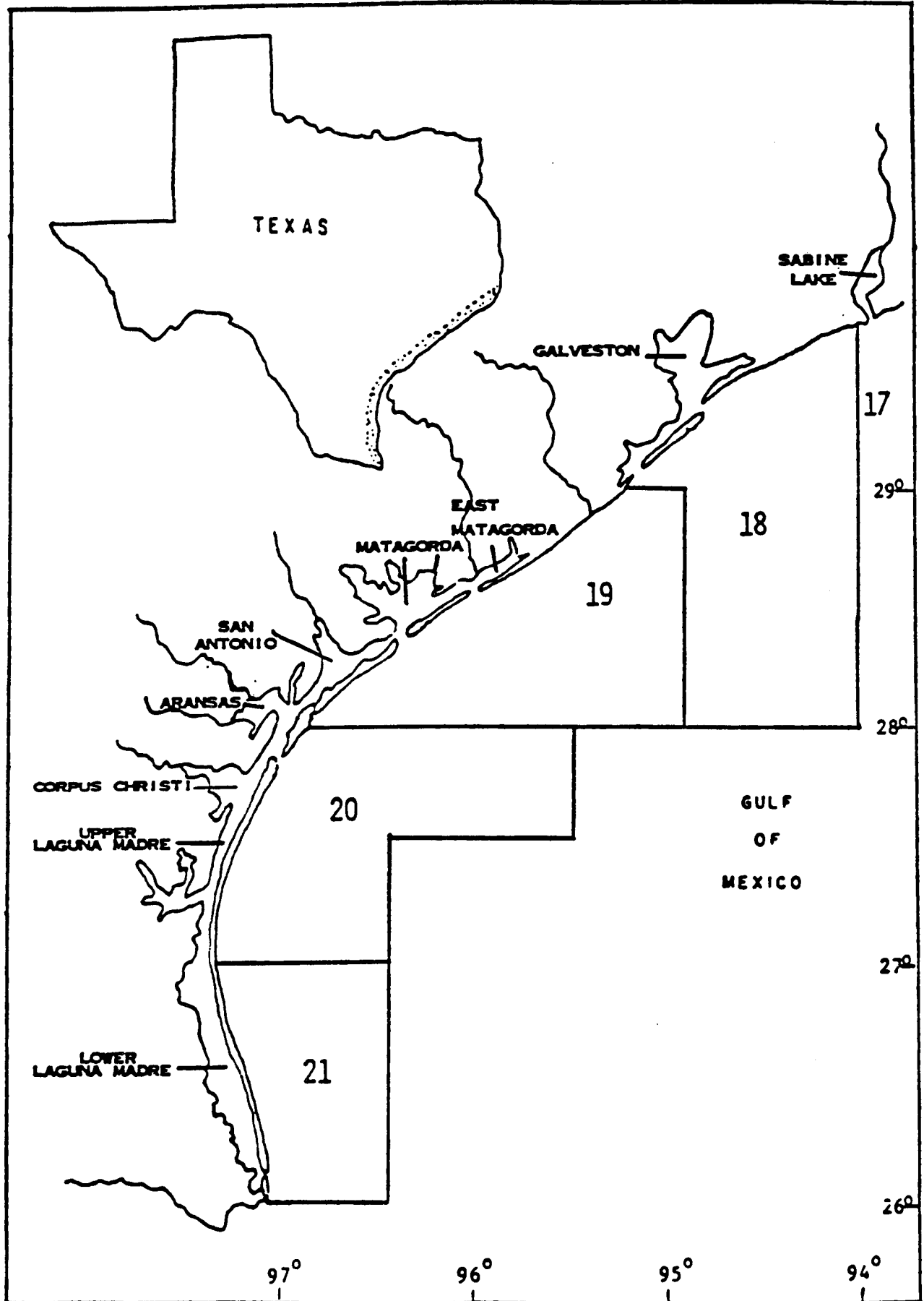


Figure 2. Monthly Marine Products Report (MMPR) form.

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

No. _____ For the Month of: _____ 19 _____

Dealer: _____

Address: _____

Species Code	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								
1870	Whiting								
2341	Mullet								
2720	Pompano								
3764	Red Snapper								
3380	Gafftop Catfish								
3447	Trout								
3580	Sheepshead								
1940	Mackerel								
4740	Warsaw								
5280	Unclassified Food								
5280	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: _____

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.

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

BUSINESS NAME

FISHERMAN'S NAME

COMMERCIAL
LICENSE NO.

RED DRUM
LICENSE NO.

BAY OR GULF WHERE FISH WERE TAKEN:

CIRCLE ONLY ONE AREA CODE - SEE MAP ON FOLDER

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

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

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

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

OYSTER HARVEST MONTHLY REPORTS
PRIVATE OYSTER LEASE
REGION IV

HARVEST REPORT FOR MONTH OF _____

PERMIT NO. _____

OYSTER LEASE NO. _____

NAME OF LEASE HOLDER _____

ADDRESS _____

BOATS USED FOR THIS LEASE THIS MONTH _____

NO. BARRELS HARVESTED _____

OR

NO. BUSHELS HARVESTED _____

NAME OF DEALER(S) BUYING OYSTERS _____

ADDRESS _____

SIGNATURE

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

Figure 6. Annual Oyster Location Lease Report form.

OYSTER LOCATION LEASE REPORT

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

Section 76.017 - 76.018 Parks and Wildlife Code:

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

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

IMPORTANT: PLEASE NOTE CHANGE IN LAW RESULTING IN INCREASE.

Enclosed is my rental payment for Lease # _____:

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

 Signature

 Date

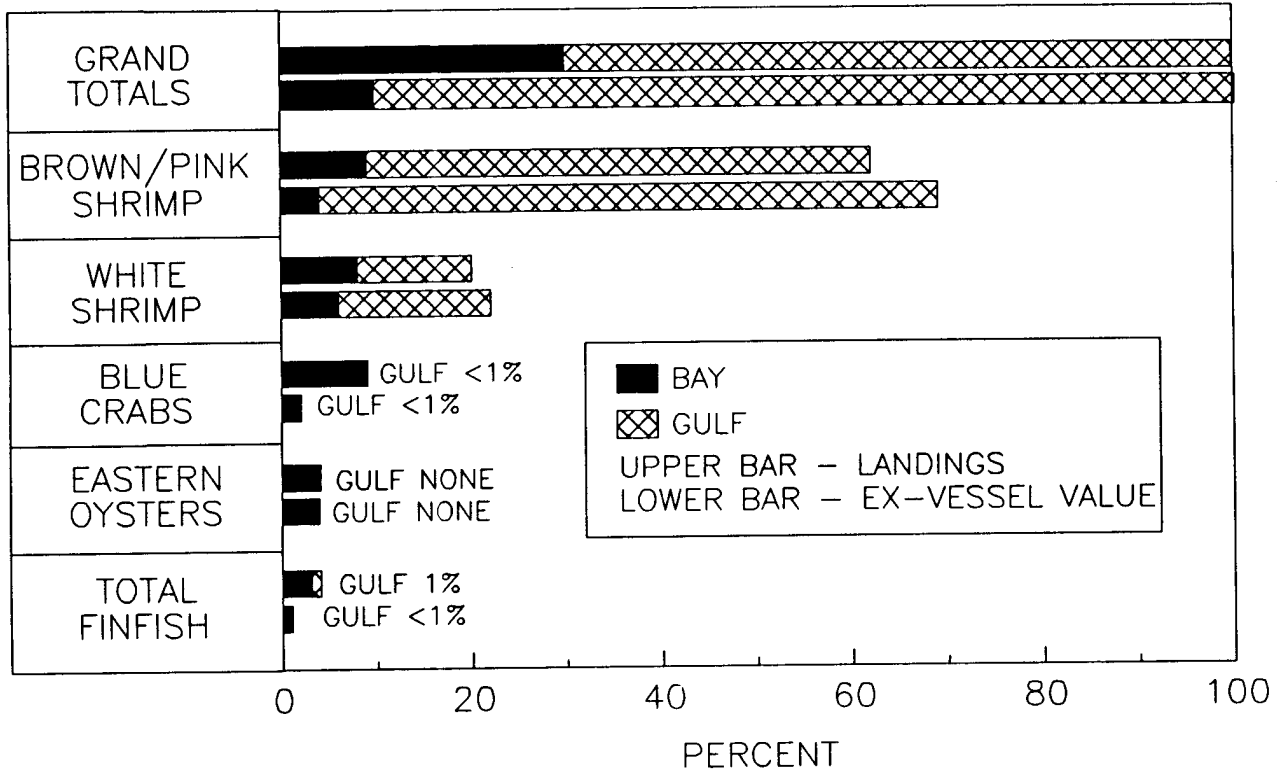
FAILURE TO PAY RENTAL ON THIS LEASE BY MARCH 1, 198 SHALL ANNUL AND BE A FORFEITURE OF THE LEASE ACCORDING TO LAW.

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 1972 through 1989.
- B. Texas commercial landings (lb) and ex-vessel values (\$) for all seafood from bays and the Gulf (grand total), by year for 1972 through 1989.

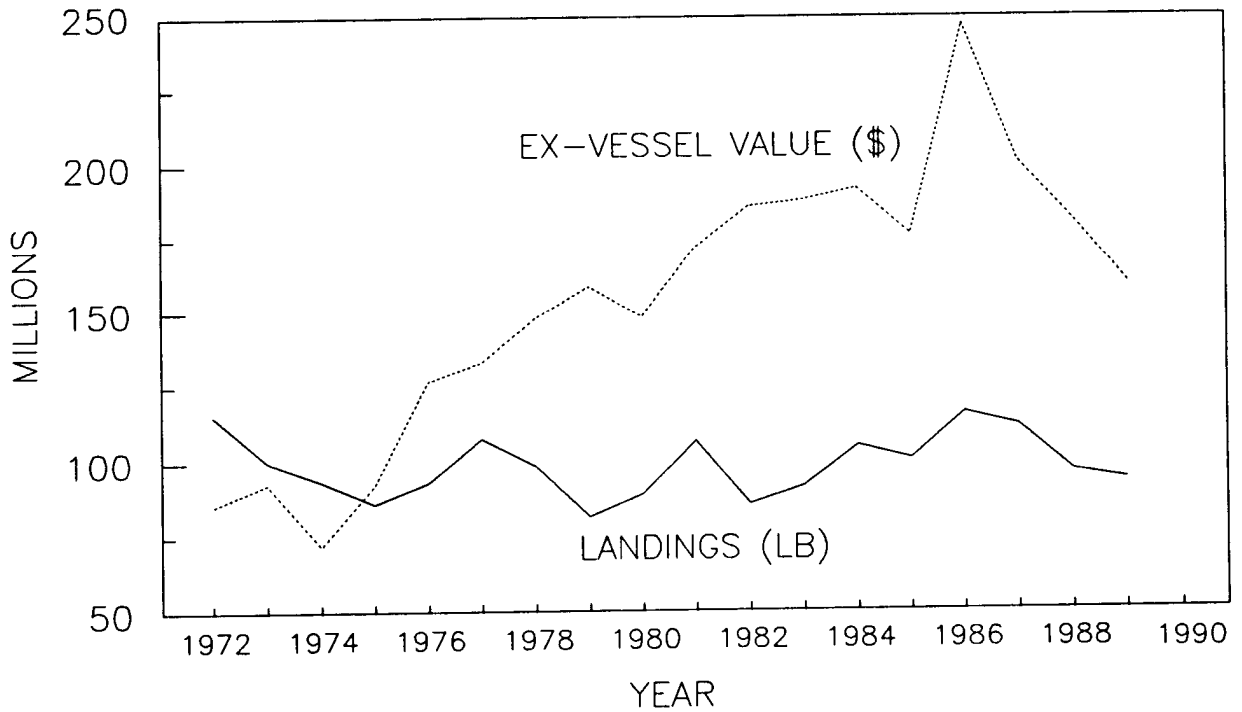
Data for Figure 7 derived from MMPR and NMFS surveys.

A.



B.

GRAND TOTAL

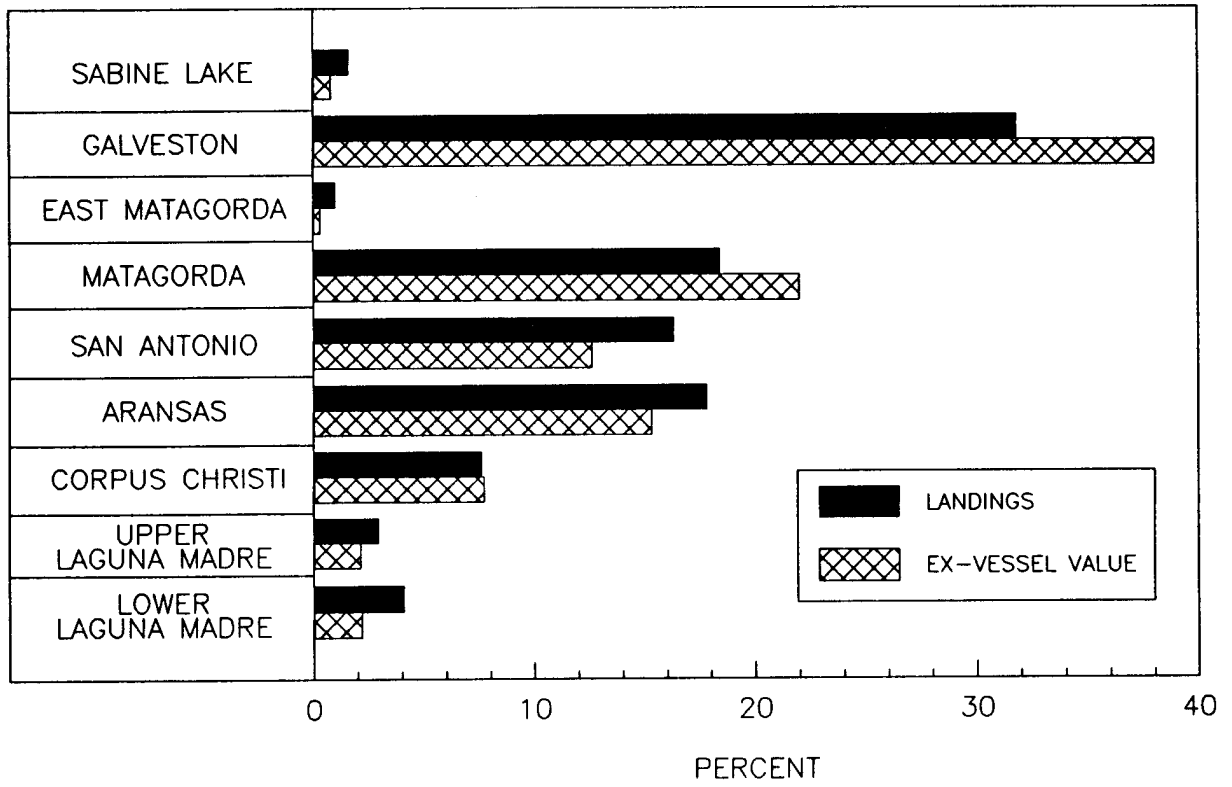


- Figure 8. A. Total commercial bay landings and ex-vessel values by bay system as a percent of the total coastwide bay landings for 1972 through 1989.
- B. A comparison of commercial landings (excluding shrimp) and ex-vessel values for offshore grid zones, expressed as percents of their respective coastwide Gulf totals for 1972 through 1989. 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.

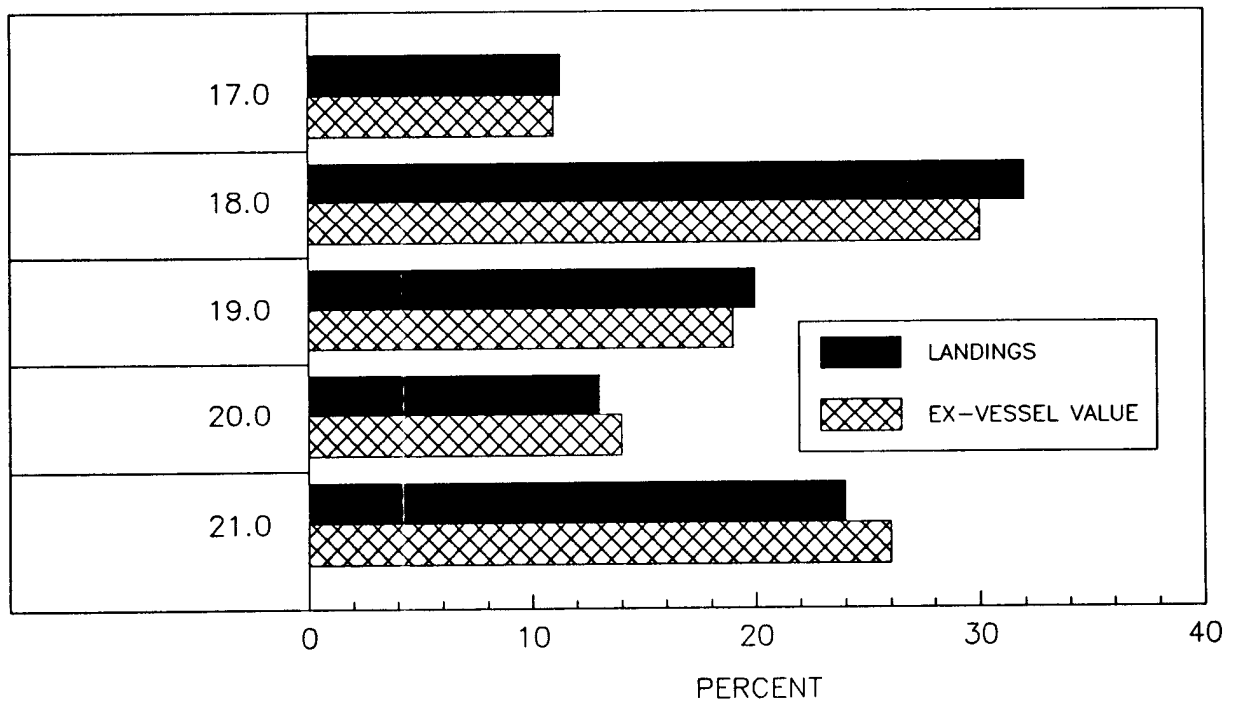
A.

BAY SYSTEM



B.

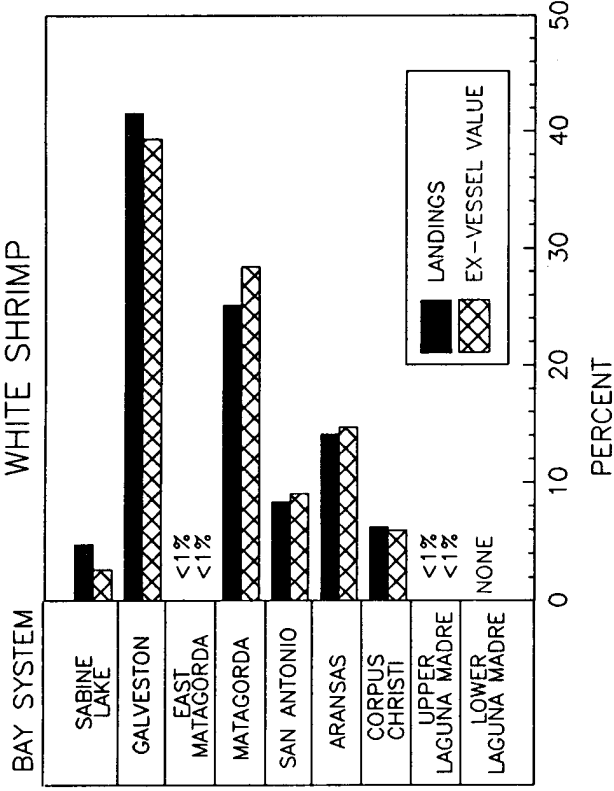
GRID ZONES



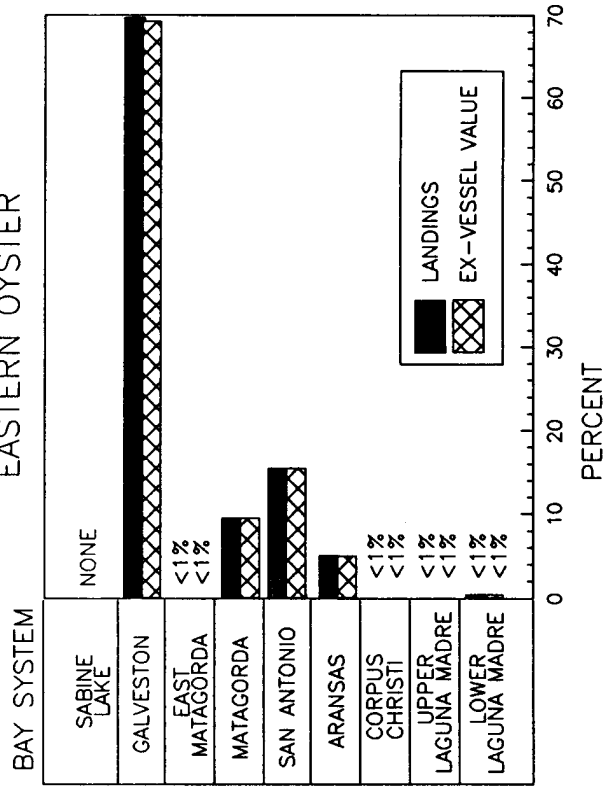
- Figure 9. A. A comparison of commercial landings and ex-vessel values of brown and pink shrimp from bay systems for 1972 through 1989.
- B. A comparison of commercial landings and ex-vessel values of white shrimp from bay systems for 1972 through 1989.
- C. A comparison of commercial landings and ex-vessel values of blue crabs from bay systems for 1972 through 1989.
- D. A comparison of commercial landings and ex-vessel values of Eastern oysters from bay systems for 1972 through 1989.

Data for Figure 9 derived from MMPR and NMFS surveys.

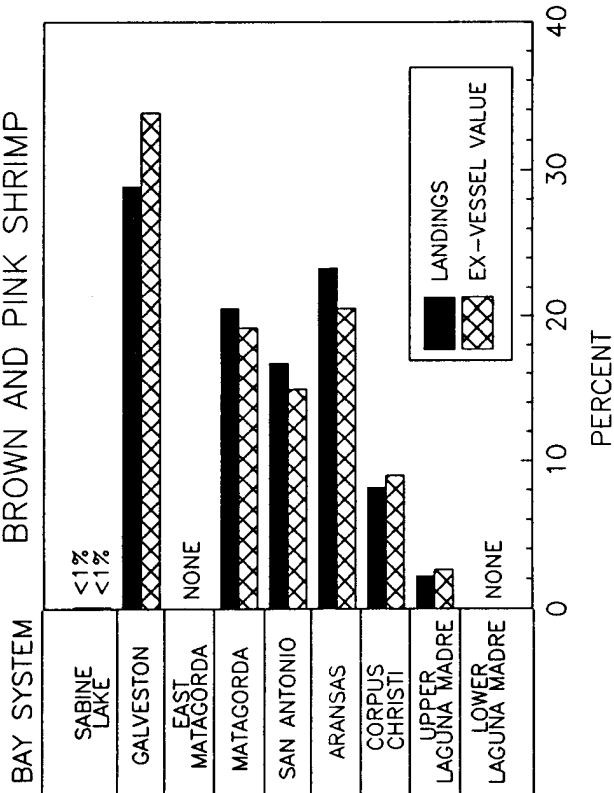
WHITE SHRIMP



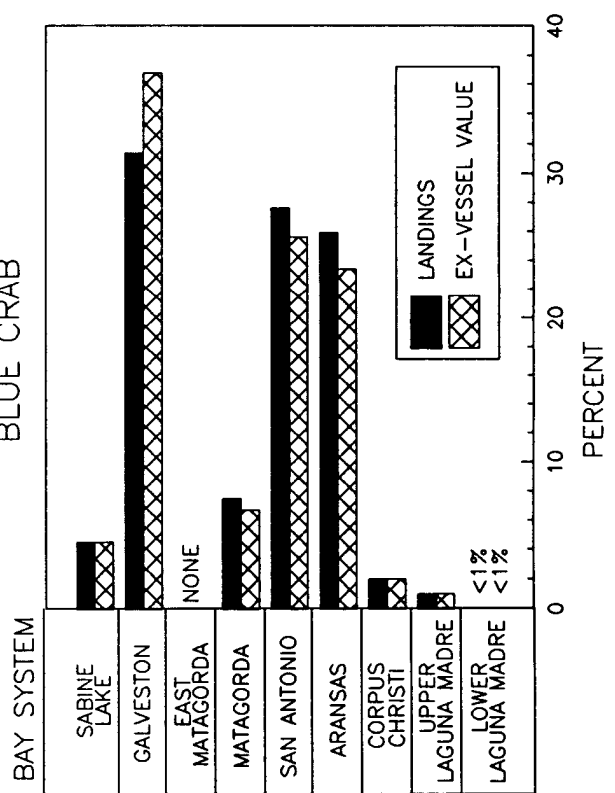
EASTERN OYSTER



BROWN AND PINK SHRIMP



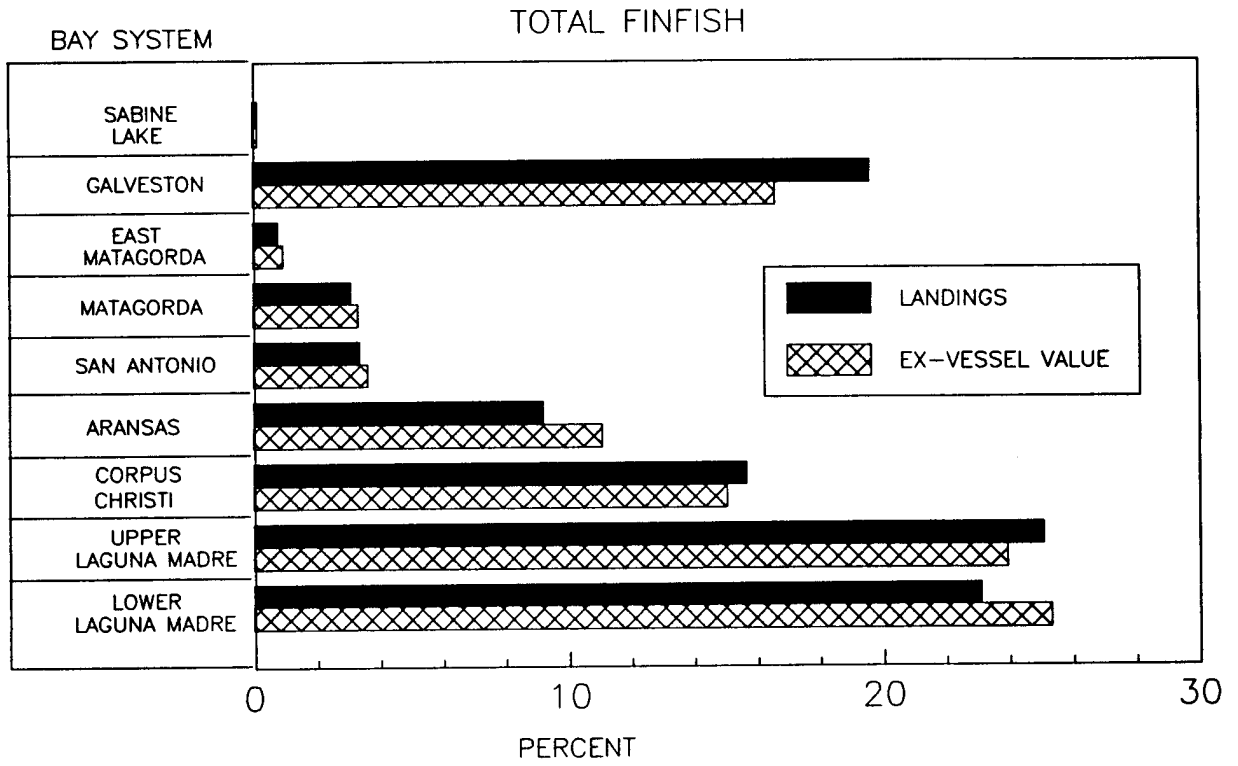
BLUE CRAB



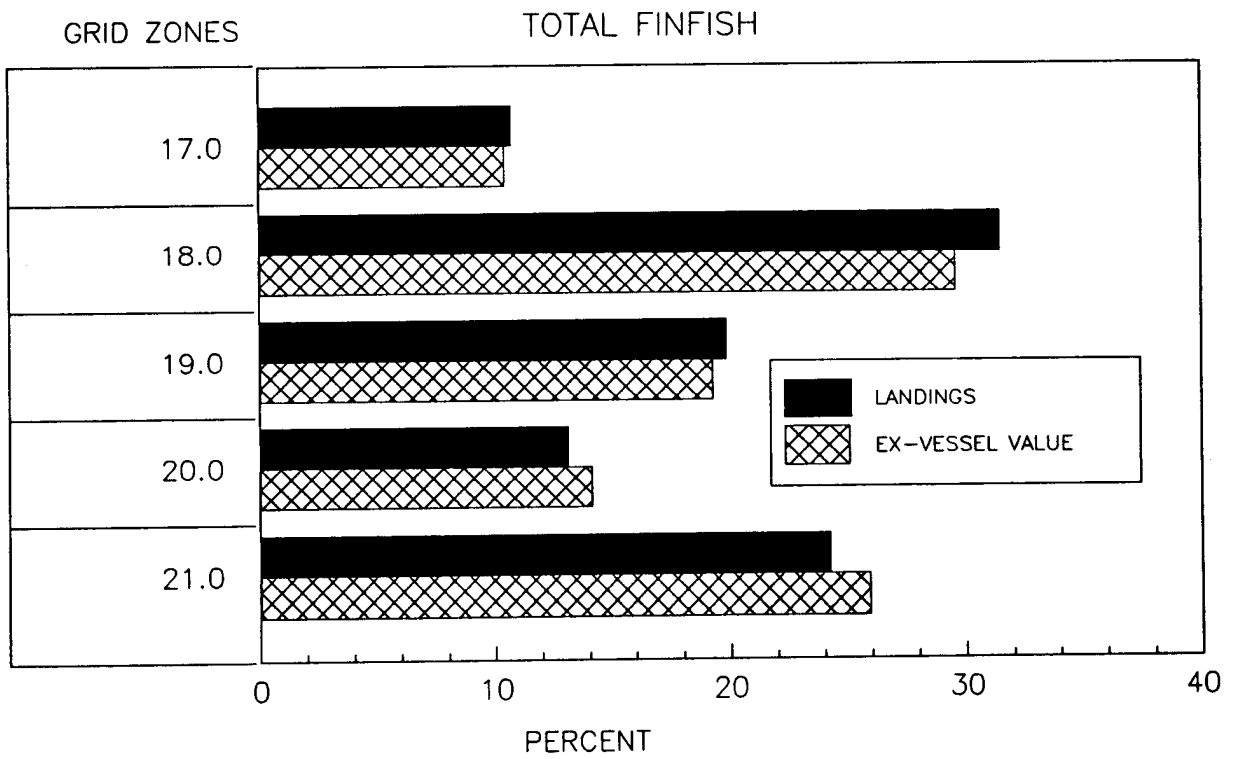
- Figure 10. A. A comparison of commercial landings and ex-vessel values of finfish from bay systems for 1972 through 1989.
- B. A comparison of commercial landings and ex-vessel values of finfish from Gulf grid zones for 1972 through 1989.

Data for Figure 10 derived from MMPR and NMFS surveys.

A.



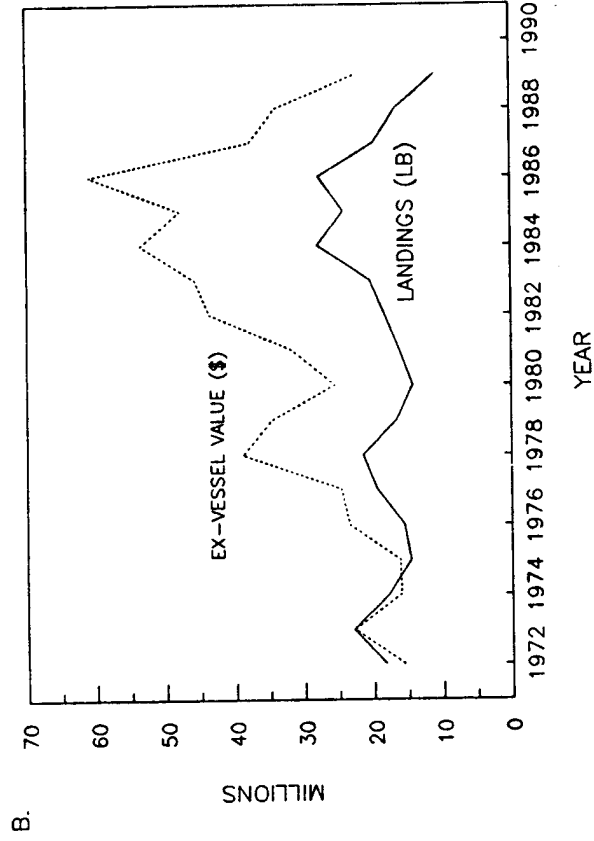
B.



- Figure 11. A. Texas commercial brown and pink shrimp landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- B. Texas commercial white shrimp landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- C. Texas commercial landings (lb) and ex-vessel values (\$) for unspecified shrimp (other shrimp) by year for 1972 through 1989.
- D. Texas commercial landings (lb) and ex-vessel values (\$) for all shrimp (total shrimp) by year for 1972 through 1989.

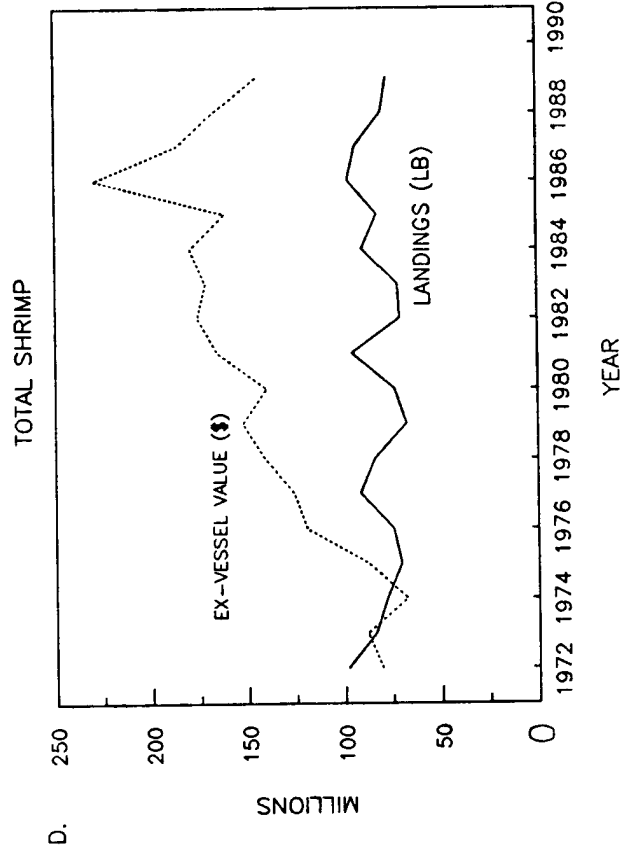
Data for Figure 11 derived from NMFS surveys.

WHITE SHRIMP



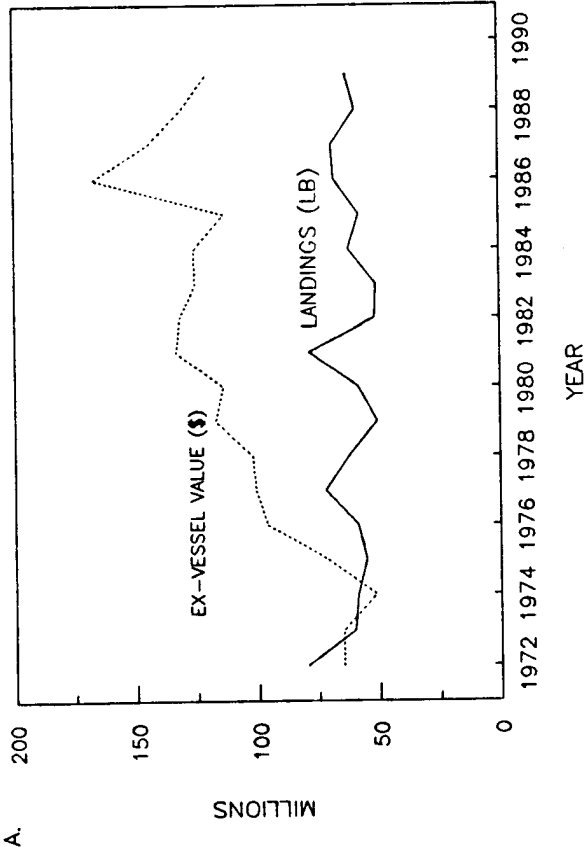
B.

TOTAL SHRIMP



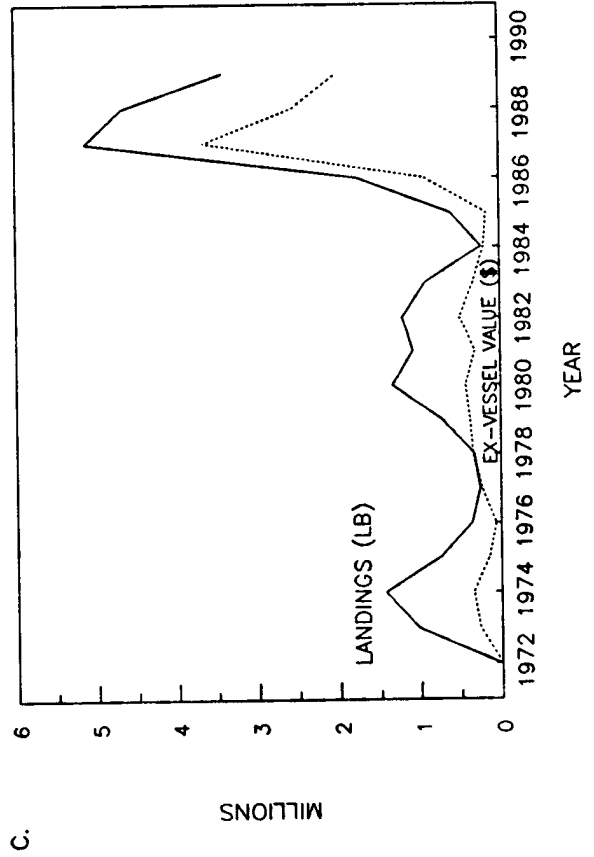
D.

BROWN AND PINK SHRIMP



A.

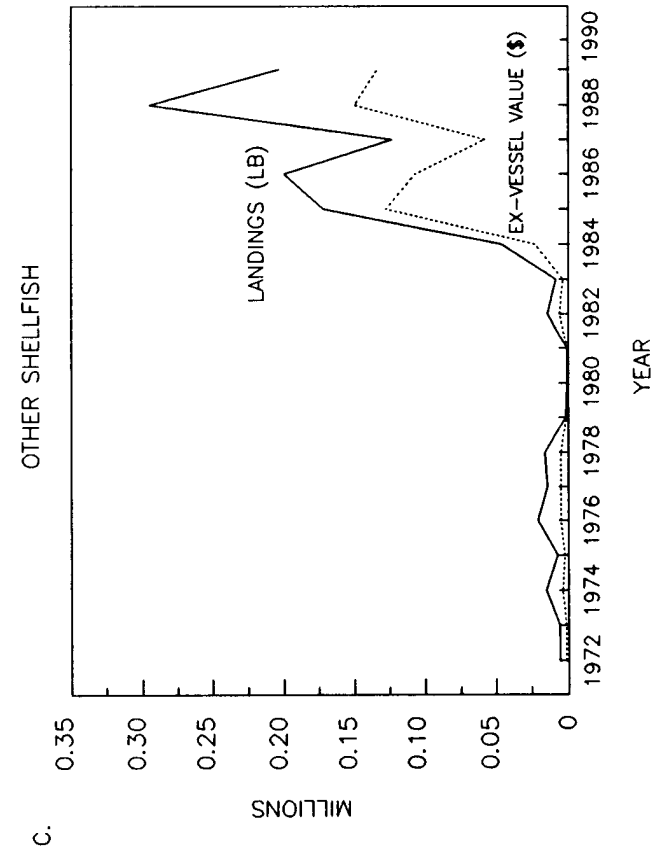
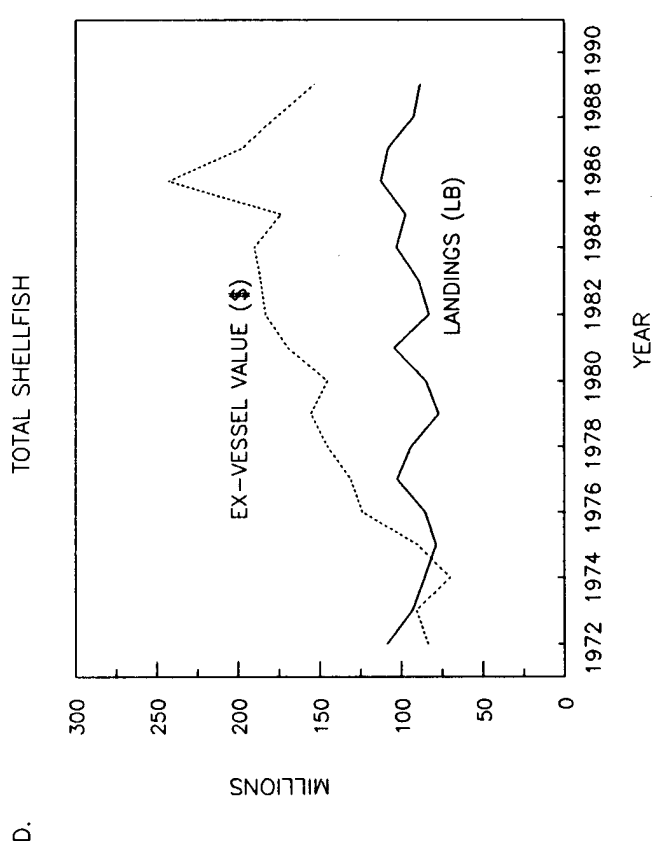
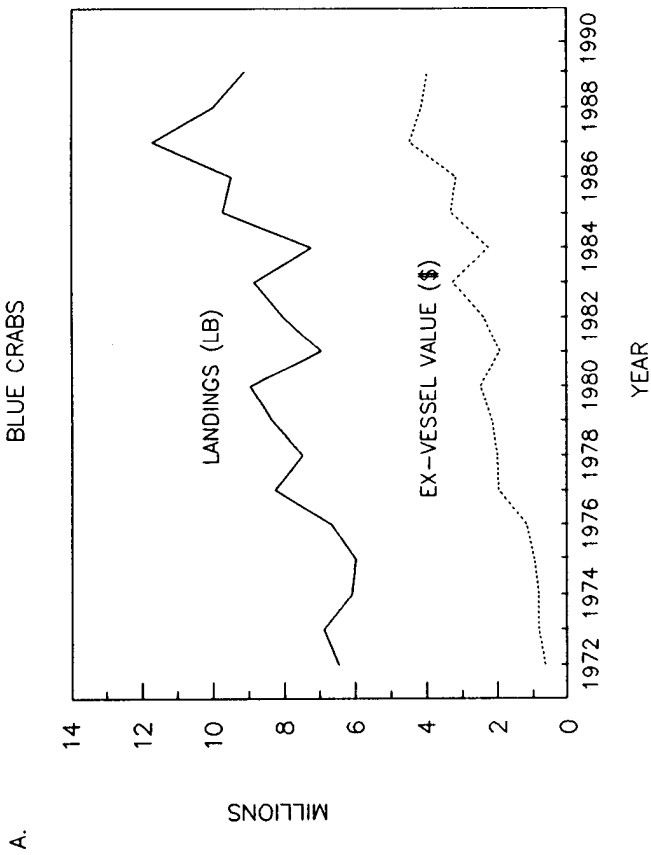
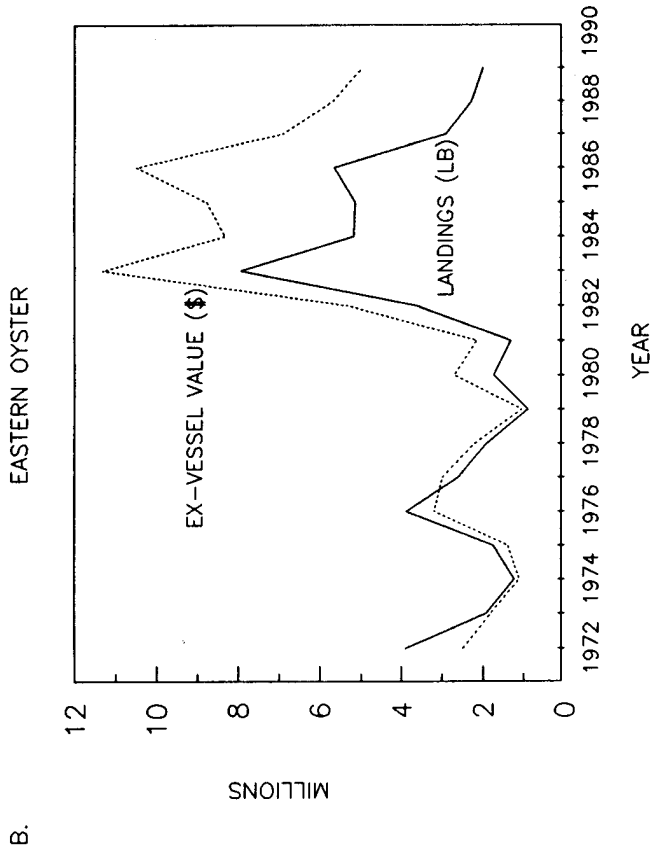
OTHER SHRIMP



C.

- Figure 12. A. Texas commercial blue crab landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- B. Texas commercial Eastern oyster landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- C. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified shellfish (other shellfish) by year for 1972 through 1989.
- D. Texas commercial landings (lb) and ex-vessel values (\$) of all shellfish (total shellfish) by year for 1972 through 1989.

Data for Figure 12 derived from MMPR and NMFS surveys.

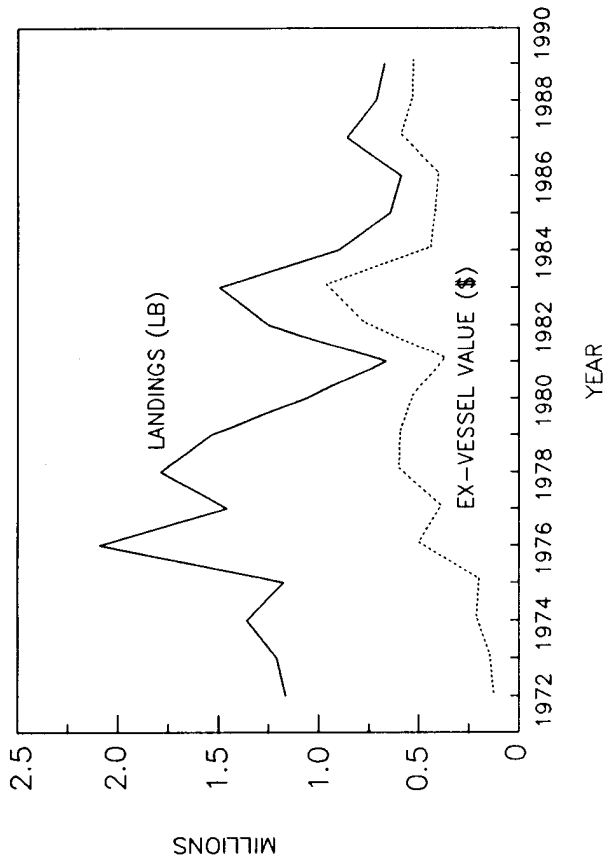


- Figure 13. A. Texas commercial black drum landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- B. Texas commercial flounder landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- C. Texas commercial sheepshead landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.
- D. Texas commercial snapper landings (lb) and ex-vessel values (\$) by year for 1972 through 1989.

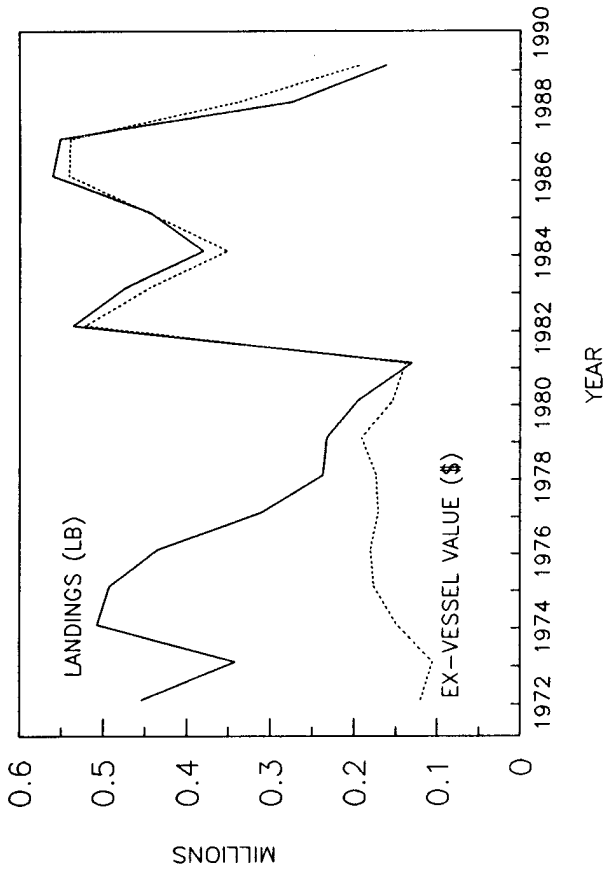
Data for Figure 13 derived from MMPR and NMFS surveys.

B.

BLACK DRUM



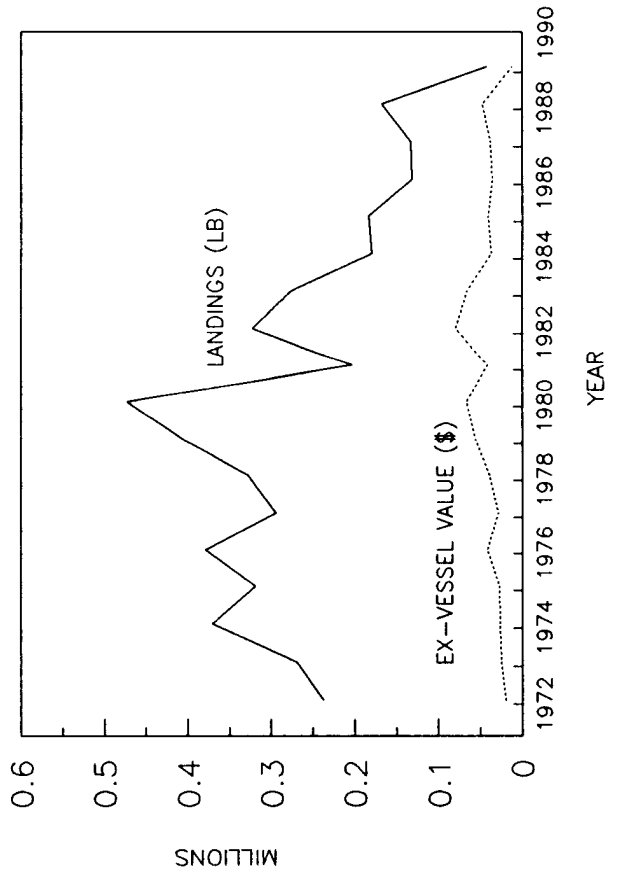
FLOUNDER



A.

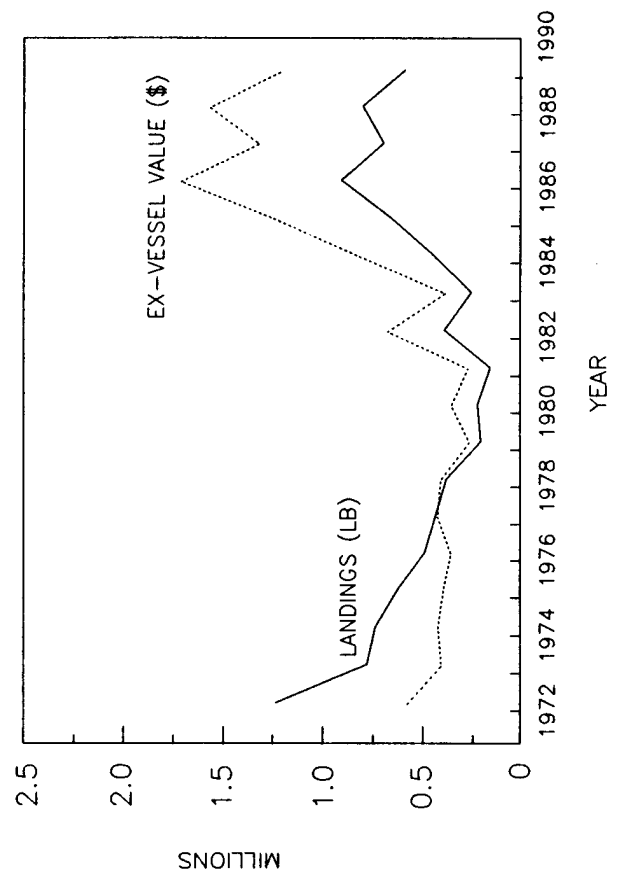
D.

SHEEPSHEAD



C.

SNAPPER

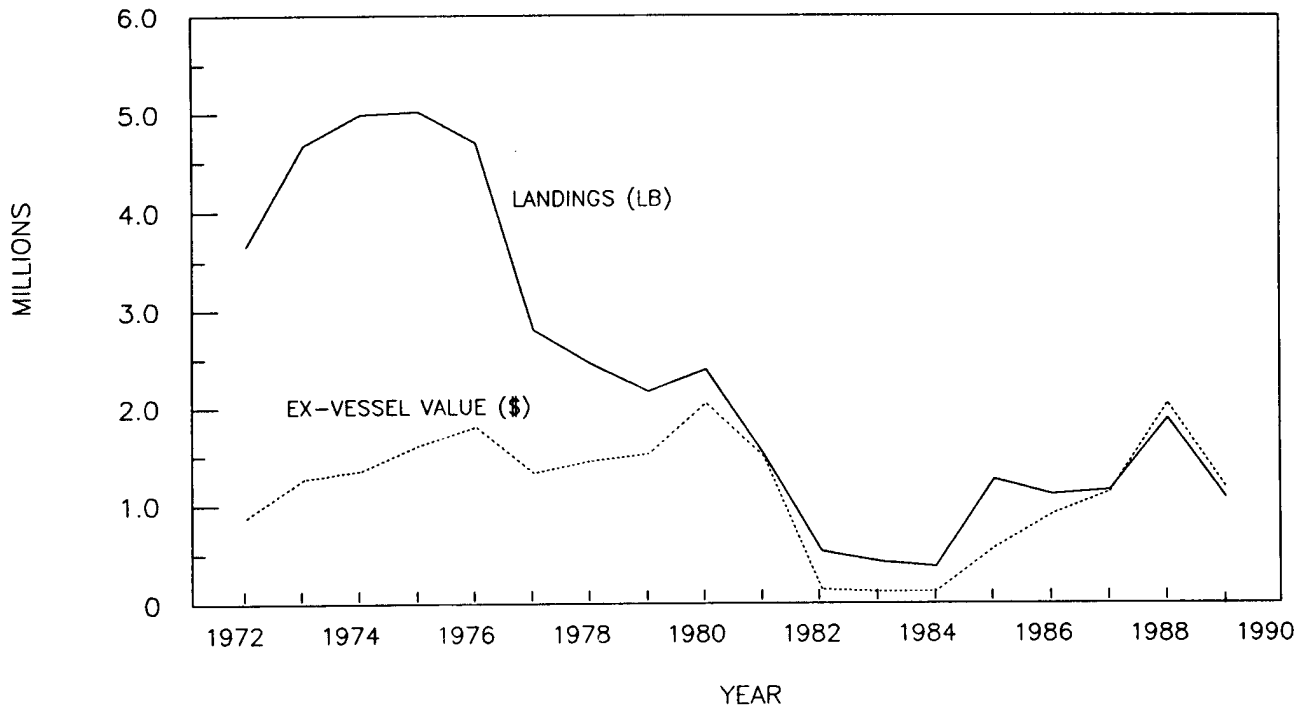


- Figure 14. A. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified finfish (other finfish) by year for 1972 through 1989.
- B. Texas commercial landings (lb) and ex-vessel values (\$) of all finfish (total finfish) by year for 1972 through 1989.

Data for Figure 14 derived from MMPR and NMFS surveys.

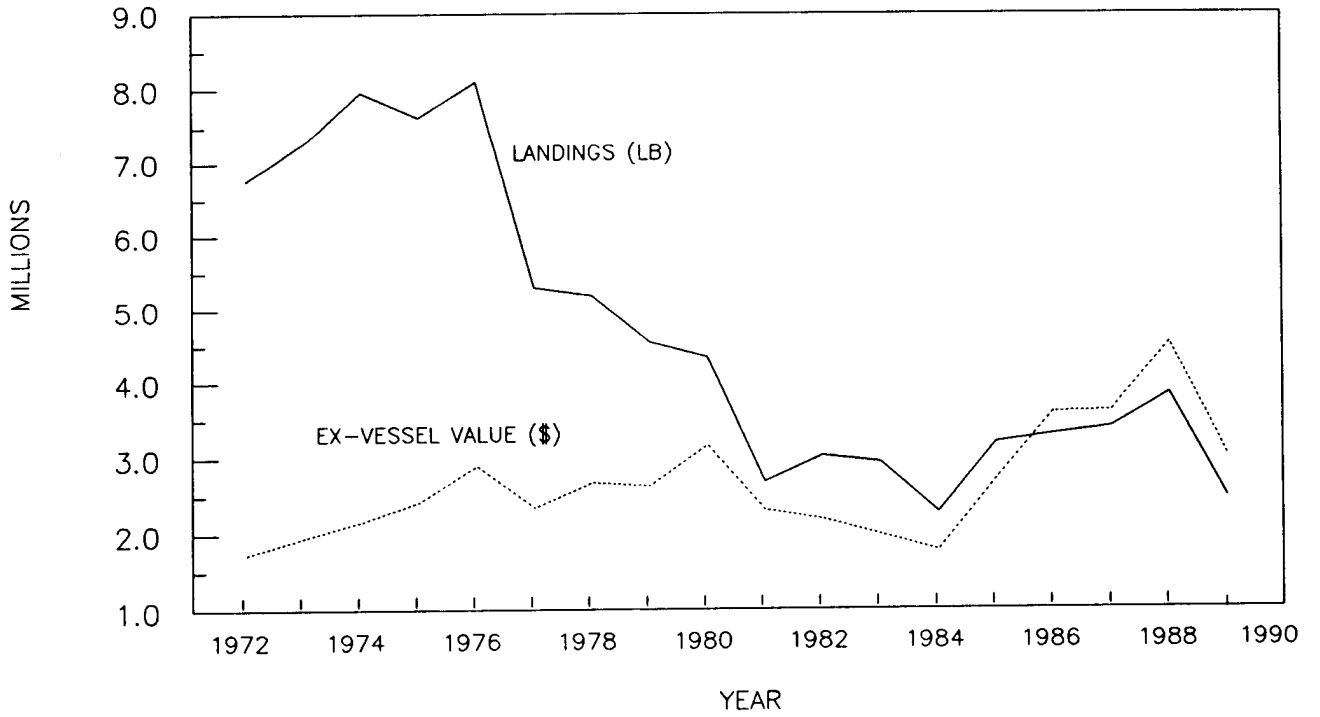
A.

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	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	Harrington et al. (1979)
Red drum	0.88	TPWD unpublished data
Sand seatrout	0.87	Harrington et al. (1979)
Shark	0.83	NMFS (1980)
Sheepshead	0.85	TPWD unpublished data
Snapper	0.85	Harrington et al. (1979)
Southern flounder	0.93	TPWD unpublished data
Spanish mackerel	0.84	NMFS (1980)
Spotted seatrout	0.87	TPWD unpublished data
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	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).

<u>Species</u>	<u>Conversion factors</u>
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-off weight to heads-on weight (Chin 1960).

<u>Species</u>	<u>Conversion factors</u>
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 1972-1989.

Table 8.1. Weight (lb) of each species landed commercially from the Sabine Lake system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Sheeps-head	Flounder	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total			
							Brown and Pink	White	Other							
1972	0	0	0	0	0	0	9,331	0	0	0	9,331	1,288,708	0	0	0	1,298,039
1973	1,400	0	0	0	4,682	6,082	0	0	0	0	0	1,358,213	0	0	0	1,364,295
1974	0	0	0	0	0	0	0	0	0	0	0	560,812	0	0	0	560,812
1975	667	804	530	0	3,027	5,008	0	0	0	0	0	620,926	0	0	0	625,934
1976	0	55	219	0	4,055	4,329	0	8,245	0	0	8,245	514,202	0	0	0	522,447
1977	980	139	687	0	1,010	2,816	2,336	4,212	0	0	6,548	226,100	0	0	0	232,648
1978	0	59	330	0	114	503	0	2,763	0	0	2,763	624,171	0	0	0	626,934
1979	556	764	51	56	600	2,027	0	0	0	0	0	163,301	0	0	0	163,301
1980	48	627	78	60	2,220	3,033	1,099	49,900	4,668	0	55,667	70,089	0	0	0	125,756
1981	219	76	119	12	974	1,400	12,830	43,248	0	0	56,078	72,624	0	0	0	128,702
1982	0	0	0	0	0	0	0	170,835	488	0	171,323	113,443	0	0	0	284,766
1983	379	430	567	0	1,341	2,717	0	740	0	0	740	172,874	0	0	0	173,614
1984	244	1,588	176	0	0	2,008	12,384	10,451	0	0	22,835	555,304	0	0	0	578,139
1985	486	2,283	1,592	0	983	5,344	0	21,169	0	0	21,169	673,758	0	0	0	694,927
1986	154	2,056	1,874	0	1,172	5,256	539	7,925	0	0	8,464	1,345,792	70	763	1,355,089	1,360,345
1987	153	2,527	2,349	0	2,997	8,026	203	173,190	0	0	173,393	626,999	928	130	801,450	809,476
1988	132	1,676	2,424	0	2,055	6,287	13,101	348,217	676	0	361,994	443,171	0	65	805,230	811,517
1989	80	535	2,465	0	2,284	5,364	0	182,492	0	0	182,492	1,224,093	0	0	1,406,585	1,411,949

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Table B.2. Ex-vessel value (\$) of each species landed commercially from the Sabine Lake system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Brown and Pink		Shrimp		Blue Crab	Eastern Oyster	Other	Total		
							White	Other	White	Other						
1972	0	0	0	0	0	0	0	4,697	0	0	4,697	127,369	0	0	132,066	
1973	210	0	0	0	1,800	2,010	0	0	0	0	0	158,433	0	0	158,433	
1974	0	0	0	0	0	0	0	0	0	0	0	77,090	0	0	77,090	
1975	114	195	117	0	829	1,255	0	0	0	0	0	96,740	0	0	96,740	
1976	0	73	11	0	1,383	1,466	0	9,317	0	9,317	89,127	0	0	98,444		
1977	281	424	34	0	569	1,308	1,098	2,529	0	3,627	57,904	0	0	61,530		
1978	0	165	12	0	23	200	0	4,528	0	4,528	163,288	0	0	167,817		
1979	199	24	168	13	240	645	0	0	0	0	49,328	0	0	49,328		
1980	24	43	166	28	1,526	1,787	1,113	37,518	1,354	39,985	24,043	0	0	64,028		
1981	79	59	15	6	451	610	8,600	38,279	0	46,879	29,575	0	0	76,454		
1982	0	0	0	0	0	0	0	197,418	220	197,637	43,907	0	0	241,544		
1983	196	411	94	0	275	976	0	1,029	0	1,029	74,654	0	0	75,682		
1984	110	161	497	0	0	768	8,762	12,339	0	21,101	204,298	0	0	225,399		
1985	462	2,025	602	0	375	3,464	0	10,747	0	10,747	231,322	0	0	242,068		
1986	104	1,958	777	0	429	3,268	302	3,931	0	4,233	456,436	72	305	461,046		
1987	61	2,523	990	0	1,812	5,386	374	151,207	0	151,580	236,764	1,908	59	390,310		
1988	124	1,668	1,016	0	2,866	5,673	8,084	279,949	309	288,342	183,957	0	33	472,332		
1989	44	501	997	0	2,731	4,273	0	109,314	0	109,314	520,764	0	0	630,078		

Table B.3. Weight (lb) of each species landed commercially from the Galveston Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet			Brown and Pink	Shrimp			Blue Crab	Eastern Oyster	Other			
				MulLet	Other	Total		White	Other	Total						
1972	72,641	21,057	27,801	59,542	312,711	493,752	1,348,320	2,701,181	0	4,049,501	1,870,124	3,242,557	2,416	9,164,598	9,658,350	
1973	92,961	9,978	52,817	69,115	469,745	694,616	1,301,554	4,154,559	0	5,456,113	2,046,962	1,703,259	1,868	9,208,202	9,902,818	
1974	27,653	20,031	28,439	24,462	478,932	579,517	1,430,520	1,498,466	153	2,929,139	1,982,882	836,712	3,779	5,752,512	6,332,029	
1975	46,444	20,966	31,950	3,042	511,351	613,753	621,237	3,087,871	0	3,709,108	1,863,452	1,236,762	2,017	6,811,339	7,425,092	
1976	47,545	29,344	51,677	18,349	450,654	597,569	1,801,925	3,335,189	0	5,137,114	1,599,474	3,289,887	11,306	10,037,781	10,635,350	
1977	102,175	14,382	21,117	3,843	314,429	455,946	2,256,576	2,988,766	1,600	5,246,942	1,859,418	1,917,532	3,335	9,027,227	9,483,173	
1978	161,887	55,173	55,504	1,946	533,184	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	72,192	46,427	263,946	502,535	1,315,025	1,963,252	0	3,278,277	1,953,742	43,097	162	5,275,278	5,777,813	
1980	55,999	31,477	65,844	2,251	219,843	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	51,936	20,637	51,376	3,985	118,039	245,973	1,991,873	2,655,307	0	4,647,180	610,228	985,411	0	6,242,819	6,488,792	
1982	72,524	197,762	125,942	118,907	188,244	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	64,568	82,523	155,077	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	74,948	50,296	63,748	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	50,581	130,550	179,245	627,334	1,651,048	2,638,555	0	4,289,603	2,167,937	3,285,112	12,380	9,755,032	10,382,366	
1986	31,279	137,488	34,354	61,460	159,914	424,495	2,043,085	4,108,323	1,452	6,152,860	3,018,610	3,541,048	47,377	12,759,895	13,184,390	
1987	50,863	222,718	35,094	27,963	106,707	443,345	3,091,385	3,811,662	1,441	6,904,488	2,786,933	2,174,865	40,565	11,906,851	12,350,196	
1988	61,297	47,299	73,893	64,553	247,983	495,025	3,454,171	3,085,281	2,889	6,542,341	3,118,874	1,452,365	56,193	11,169,773	11,664,798	
1989	21,821	14,588	16,189	108,024	60,482	221,104	2,249,442	1,806,689	0	4,056,132	2,149,496	705,490	13,440	6,924,558	7,145,662	

Table B.4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system, 1972-1989.

Year	Finfish										Shellfish						Grand Total		
	Sheeps-head					Mullet					Shrimp			Blue Crab				Other	Total
	Black drum	Flounder	head									Brown and Pink	White	Other	Total	Crab			
1972	7,970	6,184	3,000	2,849	51,524	71,527	454,365	1,875,965	0	2,330,330	191,653	2,094,463	335	4,616,781					4,688,309
1973	12,652	3,734	6,434	3,385	107,851	134,056	604,042	3,005,149	0	3,609,192	255,094	1,587,159	280	5,451,725					5,585,781
1974	3,721	6,716	3,284	1,463	110,442	125,627	378,833	1,100,700	35	1,479,568	273,301	753,289	779	2,506,937					2,632,564
1975	8,774	8,489	4,694	627	134,394	156,979	184,639	2,075,965	0	2,260,604	287,015	957,345	472	3,505,435					3,662,415
1976	9,963	13,469	8,817	2,186	142,092	176,527	802,008	3,617,944	0	4,419,953	268,422	2,704,490	2,566	7,395,431					7,571,958
1977	27,995	7,996	4,870	1,039	109,550	151,449	1,934,420	2,966,068	320	4,900,808	452,330	2,299,610	1,106	7,653,853					7,805,302
1978	48,789	43,421	10,509	239	241,470	344,428	778,259	4,977,022	0	5,755,281	521,282	1,222,870	988	7,500,422					7,844,849
1979	23,313	41,195	10,802	4,944	137,222	217,476	1,144,898	2,648,696	0	3,793,594	481,814	66,788	37	4,342,233					4,559,710
1980	30,073	28,673	15,132	474	135,232	209,584	2,076,229	4,831,460	0	6,907,690	493,063	1,643,507	0	9,044,260					9,253,844
1981	30,857	23,734	14,052	233	107,949	176,825	1,018,255	3,107,979	0	4,126,233	187,297	1,568,052	0	5,881,582					6,058,407
1982	27,285	199,890	26,996	12,607	35,205	301,982	1,442,652	5,829,652	0	7,272,304	401,458	4,781,383	3,894	12,459,039					12,761,022
1983	25,168	125,375	14,091	8,845	34,237	207,717	1,503,152	3,935,330	0	5,438,482	521,546	9,946,278	1,113	15,907,418					16,115,136
1984	106,887	133,959	15,457	5,484	17,328	279,116	2,061,454	4,032,756	0	6,094,210	541,803	4,015,272	3,723	10,655,008					10,934,123
1985	89,803	158,635	12,498	14,653	37,314	312,903	1,324,170	2,964,201	0	4,288,371	829,459	5,958,136	6,521	11,082,487					11,395,390
1986	14,805	141,994	9,140	7,457	33,028	206,425	1,869,436	4,969,357	944	6,839,737	1,028,321	6,956,429	24,593	14,849,180					15,055,605
1987	33,003	218,381	9,542	3,133	24,160	288,219	2,735,922	4,918,322	642	7,654,886	1,250,721	5,376,953	19,226	14,301,786					14,590,005
1988	55,636	55,444	17,790	10,686	94,167	233,723	3,837,344	4,185,904	1,478	8,024,726	1,517,493	3,921,794	25,093	13,489,106					13,722,828
1989	19,819	17,737	5,085	15,629	12,248	70,520	1,316,863	1,923,004	0	3,239,867	921,708	2,096,197	8,754	6,266,526					6,353,312

Table 8.5. Weight (lb) of each species landed commercially from the Matagorda Bay system, 1972-1989.

Year	Finfish										Shellfish						Grand Total			
	Black drum					Sheeps-head					Shrimp			Blue Crab				Eastern Oyster	Other	Total
	Flounder	Mullet	Other	Total	Brown and Pink	White	Other	Total	Other	Total	Crab	Oyster	Total							
1972	36,906	22,156	15,887	849	132,205	208,003	228,942	1,164,672	0	1,393,614	468,545	166,302	189	2,028,650	2,236,653					
1973	25,740	28,020	6,044	4,555	121,150	185,509	1,185,841	2,860,131	0	4,045,972	294,217	67,391	745	4,408,325	4,593,834					
1974	10,255	21,382	4,417	642	142,309	179,005	452,867	1,429,128	0	1,881,995	601,177	183,007	683	2,666,862	2,845,867					
1975	12,792	30,204	6,945	914	121,476	172,331	866,039	792,883	0	1,658,922	357,353	366,344	315	2,382,934	2,555,265					
1976	7,896	26,190	4,453	3,779	60,365	102,683	988,152	1,072,107	0	2,060,259	200,493	280,087	315	2,541,154	2,643,837					
1977	17,489	19,184	5,290	1,196	73,564	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	2,257	564	43,235	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	2,997	270	34,839	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	2,540	0	43,677	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	289	18,379	19,514	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	661	1,335	86	12,133	1,757,008	2,113,852	0	3,870,860	689,000	270,376	74	4,830,310	4,842,443					
1983	1,696	13,692	241	3,484	761	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	749	19,375	30,293	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	5,786	117,938	158,457	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	1,556	50,064	8,256	97,322	2,552,763	3,765,573	0	6,318,336	1,196,418	383,152	51,067	7,948,973	8,046,295					
1987	27,656	21,398	616	36,290	2,883	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	2,916	421	0	172	5,758	2,452,358	1,861,817	0	4,314,175	950,034	521,057	23,388	5,808,654	5,814,412					
1989	1,049	6,996	1,483	17	4,176	13,721	2,739,776	992,953	0	3,732,729	2,014,910	915,262	20,393	6,683,294	6,697,015					

Table B.6. Ex-vessel value (\$) of each species landed commercially from the Matagorda Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total			
							Brown and Pink	White	Other							
1972	4,715	6,854	1,473	119	35,409	48,571	41,037	860,733	0	901,770	47,733	101,231	34	1,050,768	1,099,339	
1973	3,874	11,593	786	416	43,592	60,261	495,417	2,306,053	0	2,801,469	34,216	53,302	119	2,889,106	2,949,367	
1974	1,452	8,267	607	118	48,015	58,459	118,828	1,162,644	0	1,281,472	82,169	145,995	149	1,509,785	1,568,244	
1975	2,407	13,613	1,134	211	49,698	67,063	264,777	792,322	0	1,057,099	57,379	277,953	79	1,392,509	1,459,572	
1976	1,768	13,418	902	539	27,916	44,542	328,738	1,105,080	0	1,433,817	34,579	197,315	72	1,665,783	1,710,325	
1977	4,768	12,465	1,237	342	40,176	58,988	353,186	2,488,876	0	2,842,062	52,248	188,223	656	3,083,189	3,142,177	
1978	5,159	13,986	643	137	27,698	47,623	301,007	3,269,863	0	3,570,870	81,465	182,319	248	3,834,901	3,882,524	
1979	4,019	5,925	581	33	28,228	38,786	2,190,101	3,920,485	0	6,110,587	180,568	146,205	5	6,437,364	6,476,150	
1980	5,605	3,211	541	0	41,372	50,729	1,663,154	2,622,549	0	4,285,703	105,058	495,533	0	4,886,294	4,937,024	
1981	3,319	683	55	938	19,951	24,946	955,878	2,233,389	0	3,189,267	95,838	130,347	0	3,415,451	3,440,397	
1982	1,213	9,457	432	281	55	11,439	1,471,574	4,017,104	0	5,488,678	209,955	389,589	20	6,088,242	6,099,681	
1983	1,312	15,704	144	623	360	18,143	3,973,045	5,708,136	0	9,681,181	245,017	264,756	55	10,191,009	10,209,152	
1984	409	20,303	297	1,760	2,939	25,708	1,933,896	3,852,313	260	5,786,468	302,471	732,035	2,493	6,823,468	6,849,176	
1985	3,789	33,438	1,865	10,126	9,850	59,067	1,389,730	4,015,136	677	5,405,543	338,767	198,719	3,879	5,946,907	6,005,975	
1986	6,625	34,204	674	4,831	819	47,153	2,432,683	6,228,562	0	8,661,245	371,888	597,832	21,962	9,652,927	9,700,080	
1987	6,792	20,653	258	3,340	666	31,709	3,540,484	4,203,314	2,683	7,746,481	366,003	368,771	2,750	8,484,004	8,515,713	
1988	1,722	3,589	207	0	130	5,648	2,165,625	3,021,325	0	5,186,950	361,712	1,023,267	10,109	6,582,038	6,587,687	
1989	465	7,690	482	4	1,668	10,309	2,453,704	1,607,215	0	4,060,919	951,304	1,766,740	10,341	6,789,303	6,799,612	

Table B.7. Weight (lb) of each species landed commercially from the East Matagorda Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum					Sheeps-head					Shrimp					
	Flounder	Sheeps-head	Mullet	Other	Total	Brown and Pink	White	Other	Total	Blue Crab	Eastern Oyster	Other	Total			
1972	13,742	2,271	2,206	77,939	97,917	0	9,061	0	9,061	413,400	49,018	0	471,479			
1973	12,464	4,428	0	81,013	99,566	0	66,326	0	66,326	828,257	11,637	0	906,220			
1974	4,436	1,420	0	41,565	48,860	0	0	0	0	358,177	14,227	0	372,404			
1975	5,726	2,743	0	46,957	65,415	0	0	0	0	540,268	8,418	0	548,686			
1976	7,602	3,621	1,000	76,673	95,009	0	0	0	0	451,237	2,751	0	453,988			
1977	9,339	2,938	0	55,046	70,820	0	0	0	0	309,699	1,317	0	311,016			
1978	9,593	1,964	0	35,008	49,668	0	0	0	0	267,668	578	0	268,246			
1979	7,531	1,202	0	21,698	31,222	0	0	0	0	196,073	26,040	0	222,113			
1980	4,248	487	1	38,138	43,264	0	0	0	0	468,952	2,722	0	471,674			
1981	1,387	50	0	10,239	11,977	0	0	0	0	83,497	27,504	0	111,001			
1982	1,975	1,540	0	2,860	18,133	0	0	0	0	630,153	0	0	630,153			
1983	453	264	0	326	7,892	0	0	0	0	637,942	17,569	0	655,511			
1984	199	221	0	254	3,642	0	0	0	0	317,525	58,317	2,114	377,956			
1985	0	0	0	0	44	0	0	0	0	157,482	2,468	0	159,950			
1986	0	0	0	0	0	0	0	0	0	3,000	0	0	3,000			
1987	3,011	217	0	180	6,080	0	0	0	0	175	1,383	0	1,558			
1988	742	197	0	511	2,228	0	0	0	0	209,583	893	235	210,711			
1989	0	0	51	1,995	6,162	0	0	0	0	246,866	928	527	248,321			

Table B.8. Ex-vessel value (\$) of each species landed commercially from the East Matagorda Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Brown and Pink	Total	Blue Crab	Eastern Oyster	Other	Total	
							White	Other	Total							
1972	1,790	561	288	66	21,377	24,082	0	6,161	0	0	6,161	42,199	31,473	0	79,833	103,916
1973	1,904	679	658	0	29,639	32,880	0	50,950	0	0	50,950	100,831	8,183	0	159,963	192,843
1974	649	521	195	0	14,201	15,565	0	0	0	0	0	49,863	11,820	0	61,683	77,249
1975	1,068	4,422	524	0	19,198	25,213	0	0	0	0	0	87,211	6,540	0	93,751	118,964
1976	1,588	3,016	724	100	27,081	32,510	0	0	0	0	0	78,574	2,163	0	80,737	113,247
1977	2,556	2,112	706	0	25,576	30,950	0	0	0	0	0	75,881	1,224	0	77,105	108,055
1978	2,758	2,275	551	0	22,529	28,112	0	0	0	0	0	66,481	792	0	67,273	95,385
1979	2,653	612	486	0	18,125	21,876	0	0	0	0	0	48,079	38,020	0	86,099	107,974
1980	1,768	390	207	0	35,543	37,909	0	0	0	0	0	123,062	3,861	0	126,923	164,832
1981	905	342	34	0	10,432	11,713	0	0	0	0	0	23,578	43,804	0	67,381	79,094
1982	1,455	10,813	1,087	0	2,477	15,833	0	0	0	0	0	189,697	0	0	189,697	205,530
1983	316	8,384	117	0	285	9,102	0	0	0	0	0	157,133	26,985	0	184,118	193,220
1984	142	3,189	99	0	121	3,551	0	0	0	0	0	73,935	96,488	519	170,941	174,492
1985	0	54	0	0	0	54	0	0	0	0	0	37,847	4,221	0	42,068	42,122
1986	0	0	0	0	0	0	0	0	0	0	0	900	0	0	900	900
1987	2,559	4,031	54	0	27	6,671	0	0	0	0	0	69	2,294	0	2,363	9,034
1988	650	1,362	99	0	165	2,276	0	0	0	0	0	85,108	1,836	81	87,025	89,300
1989	0	5,364	0	20	758	6,143	0	0	0	0	0	113,861	1,696	159	115,716	121,859

Table 8.9. Weight (lb) of each species landed commercially from the San Antonio Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total			
							Brown and Pink	White	Other							
1972	27,996	6,646	13,393	1,800	111,905	161,740	88,319	886,270	0	974,589	995,493	397,557	100	2,367,739	2,529,479	
1973	52,770	6,258	15,228	4,600	179,415	258,271	323,043	840,655	0	1,163,698	859,003	134,534	0	2,157,235	2,415,506	
1974	109,699	27,662	8,974	0	275,657	421,992	67,137	634,634	0	701,771	1,124,349	196,622	0	2,022,742	2,444,734	
1975	92,071	19,144	27,739	9,900	313,991	462,845	369,527	774,267	0	1,143,794	1,539,148	123,955	0	2,606,897	3,269,742	
1976	55,800	23,936	20,539	0	280,925	381,200	259,532	696,027	0	955,559	2,140,387	279,221	0	3,375,167	3,756,367	
1977	39,889	15,012	6,523	188	140,395	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	11,544	574	88,735	143,750	685,755	630,176	0	1,315,931	1,925,483	560,780	0	3,802,194	3,945,944	
1979	8,679	5,083	5,903	0	64,837	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	4,851	0	143,385	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	2,939	30,381	67,049	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	388	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	3,177	215	641	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	7,358	2,848	8,742	34,874	1,113,827	745,136	0	1,858,963	1,423,640	1,937,344	4,287	5,224,234	5,259,108	
1985	7,934	14,298	9,576	615	3,757	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	8,456	283	2,456	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	3,995	109,407	1,547	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	2,093	0	2,705	40,389	1,989,771	616,310	22	2,606,103	2,741,866	8,927	132	5,357,028	5,397,417	
1989	427	17,894	1,976	0	263	20,560	1,910,911	328,901	0	2,239,811	1,476,655	139,844	2,348	3,858,658	3,879,218	

Table B.10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system, 1972-1989.

Year	Finfish										Shellfish						Grand Total
	Sheeps-head					Shrimp					Shellfish						
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Brown and Pink	White	Other	Total	Blue Crab	Eastern Oyster	Other	Total			
1972	3,066	2,035	1,443	72	31,830	38,445	15,164	544,878	0	560,042	99,539	218,550	15	878,146			
1973	6,907	2,258	2,107	270	58,503	70,046	134,617	608,203	0	742,820	106,190	153,089	0	1,002,099			
1974	15,720	11,190	1,110	0	95,969	123,989	16,350	408,548	0	424,898	152,447	189,627	0	766,972			
1975	16,363	8,609	2,532	785	122,533	150,822	123,122	495,501	0	618,623	243,632	127,131	0	989,385			
1976	13,058	12,319	3,332	0	130,172	158,881	93,638	526,871	0	620,509	389,108	267,512	0	1,277,128			
1977	9,625	8,966	757	38	73,260	92,646	74,220	975,470	0	1,049,689	506,153	428,621	8	1,984,471			
1978	9,020	9,332	1,595	82	63,089	83,119	221,690	613,293	0	834,983	504,865	661,879	0	2,001,727			
1979	3,229	4,831	1,135	0	57,783	66,977	570,771	1,149,736	0	1,720,507	723,938	686,703	0	3,131,148			
1980	8,362	9,856	1,031	0	133,634	152,884	1,028,620	775,524	0	1,804,144	802,171	503,256	0	3,109,570			
1981	5,445	13,066	736	1,519	69,713	90,479	461,439	537,989	0	999,428	797,728	194,684	0	1,991,840			
1982	194	10,192	66	0	0	10,451	663,891	687,224	0	1,351,116	653,508	63,737	0	2,068,361			
1983	4,300	7,521	678	65	212	12,775	1,307,198	638,400	0	1,945,597	1,021,105	908,939	35	3,875,676			
1984	5,754	11,046	2,464	885	2,138	22,289	881,545	1,017,071	0	1,898,616	376,916	2,917,682	1,815	5,195,029			
1985	3,796	17,855	3,358	282	1,572	26,863	619,044	843,141	0	1,462,185	957,812	2,239,732	37,152	4,696,881			
1986	7,278	11,267	2,555	140	900	22,139	1,333,413	1,243,937	0	2,577,351	570,355	2,774,003	20,148	5,941,856			
1987	10,576	32,179	1,379	9,861	467	54,462	1,670,279	1,294,548	0	2,964,828	1,773,203	186,660	396	4,925,086			
1988	3,729	40,196	716	0	1,362	46,003	1,698,376	959,666	0	2,658,042	1,056,821	22,308	55	3,737,226			
1989	328	24,269	779	0	101	25,477	1,676,827	487,974	0	2,164,801	558,162	355,034	968	3,078,965			

Table 8.11. Weight (lb) of each species landed commercially from the Arkansas Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet			Brown and Pink		Shrimp		Blue Crab	Eastern Oyster	Other	Total		
				Mullet	Other	Total	Other	White	Other	Total						
1972	91,561	36,867	18,462	8,074	528,730	683,694	137,494	1,261,494	0	1,398,988	1,338,870	60,553	0	2,798,411	3,482,105	
1973	128,985	19,607	44,186	8,665	517,209	718,652	872,186	997,602	0	1,869,788	1,272,791	9,940	0	3,152,519	3,871,171	
1974	118,308	43,524	52,350	3,500	471,798	689,480	210,910	448,238	0	659,148	1,079,323	9,888	0	1,748,359	2,437,839	
1975	118,035	65,520	27,073	8,795	500,670	720,093	486,664	589,222	0	1,075,886	892,434	12,381	0	1,980,701	2,700,794	
1976	173,178	89,454	49,203	342	835,620	1,147,797	732,643	576,593	0	1,309,236	1,318,761	24,158	521	2,652,676	3,800,473	
1977	123,441	68,100	37,993	2,048	430,746	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	33,778	1,870	252,656	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	21,264	1,051	185,366	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	11,954	14,951	251,814	373,643	1,010,885	824,648	0	1,835,533	2,716,056	21,588	0	4,573,177	4,946,820	
1981	20,618	46,985	26,932	3,197	81,037	178,769	1,744,416	726,693	0	2,471,109	1,777,297	62,369	0	4,310,775	4,489,544	
1982	36,491	119,852	59,483	8,851	800	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	27,397	13,606	4,561	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	5,510	0	102	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	11,265	0	6,300	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	15,980	33	3,783	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	29,887	49,681	2,758	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	3,917	1,178	9,230	79,657	2,789,878	1,050,430	0	3,840,308	2,571,851	276,385	175,450	6,863,994	6,943,651	
1989	2,094	15,375	165	3,600	64	21,298	1,967,067	213,814	0	2,182,882	405,087	118,617	115,552	2,822,138	2,843,436	

Table B.12. Ex-vessel value (\$) of each species landed commercially from the Arkansas Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total			
							Brown and Pink	White	Other							
1972	10,704	11,943	1,015	356	165,580	189,598	19,256	1,017,152	0	1,036,407	135,514	40,146	0	1,212,067	1,401,665	
1973	15,072	6,439	2,991	460	157,378	182,340	320,570	711,900	0	1,032,470	147,418	10,323	0	1,190,211	1,372,551	
1974	16,674	13,863	2,731	210	148,390	181,867	54,252	378,785	0	433,037	147,627	11,295	0	591,960	773,827	
1975	22,716	27,131	2,239	734	190,481	243,301	149,122	495,756	0	644,878	148,037	13,743	0	806,657	1,049,958	
1976	44,129	40,852	4,418	68	368,135	457,602	253,140	602,679	0	855,820	223,087	23,957	78	1,102,941	1,560,542	
1977	33,411	40,204	2,653	102	234,466	310,837	159,139	1,395,300	0	1,554,439	505,795	65,103	0	2,125,337	2,436,174	
1978	26,437	33,522	2,938	207	186,311	249,416	221,431	1,135,804	0	1,357,236	567,758	133,734	0	2,058,727	2,308,143	
1979	9,093	34,294	2,718	105	163,954	210,164	1,148,754	1,746,313	0	2,895,067	613,596	108,704	0	3,617,366	3,827,530	
1980	17,792	43,223	1,575	770	252,384	315,743	862,589	1,207,648	0	2,070,237	766,160	22,934	0	2,859,331	3,175,074	
1981	13,021	56,546	6,177	458	93,717	169,920	925,332	876,323	0	1,801,655	554,601	91,655	0	2,447,911	2,617,831	
1982	23,801	111,570	16,554	877	191	152,993	1,422,765	1,496,129	0	2,918,894	615,755	72,485	65	3,607,199	3,760,192	
1983	30,275	64,576	3,875	1,498	2,982	103,205	3,818,816	1,429,216	0	5,248,032	937,183	183,905	61	6,369,182	6,472,387	
1984	10,165	57,928	1,235	0	27	69,355	2,143,509	2,407,353	0	4,550,862	608,700	540,826	4,200	5,704,587	5,773,942	
1985	12,593	45,194	2,170	0	703	60,660	1,428,731	1,234,637	144	2,663,511	743,745	342,305	6,262	3,755,823	3,816,483	
1986	33,192	85,684	3,618	3	830	123,326	2,212,768	2,862,736	0	5,075,503	341,568	158,265	3,489	5,578,825	5,702,151	
1987	34,690	68,358	7,314	4,482	612	115,456	3,713,091	1,784,055	0	5,497,145	604,311	944,903	17,648	7,064,007	7,179,463	
1988	27,511	40,972	1,249	193	15,089	85,014	2,332,005	1,569,031	0	3,901,036	964,075	676,681	89,205	5,630,997	5,716,011	
1989	2,005	25,520	48	2,160	27	29,760	1,591,759	337,398	0	1,929,157	209,121	286,500	87,161	2,511,938	2,541,699	

Table B.13. Weight (lb) of each species landed commercially from the Corpus Christi Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total			
							Brown and Pink	White	Other							
1972	102,876	8,496	8,383	420	196,594	316,769	51,842	324,846	0	376,688	70,652	0	0	447,340	764,109	
1973	220,175	17,512	35,138	15,255	338,300	626,380	396,221	873,026	0	1,269,247	41,068	0	212	1,310,527	1,936,907	
1974	201,074	37,985	91,358	1,101	415,022	746,540	150,052	292,036	0	442,088	326,220	0	0	768,308	1,514,848	
1975	205,685	56,334	78,758	1,152	322,229	664,158	482,839	461,076	0	943,915	125,753	1,050	0	1,070,718	1,734,876	
1976	161,758	25,725	84,427	1,700	280,961	554,571	397,220	410,269	0	807,489	123,761	0	0	931,250	1,485,821	
1977	199,848	49,128	116,863	73	169,306	535,218	758,572	567,956	0	1,306,528	102,750	0	0	1,409,278	1,944,496	
1978	400,845	44,879	126,860	0	259,081	831,665	910,075	521,680	0	1,431,755	9,307	0	0	1,441,062	2,272,727	
1979	383,315	68,726	201,684	34,680	272,046	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	251,267	69,790	315,337	861,836	1,469,014	400,763	0	1,869,777	17,448	0	0	1,887,225	2,749,061	
1981	58,074	5,880	51,927	23,592	188,663	328,136	1,149,681	336,542	0	1,486,223	7,723	0	0	1,493,946	1,822,082	
1982	58,262	36,632	43,574	8,568	1,685	148,721	708,245	400,062	0	1,108,307	141,558	0	0	1,249,865	1,398,586	
1983	105,884	74,422	87,195	0	9,186	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	31,185	1,515	1,075	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	39,254	4,422	18,723	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	20,443	358	23,920	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	21,379	0	24,710	216,969	1,309,794	764,332	91	2,074,217	267,622	403	18,211	2,360,453	2,577,422	
1988	136,953	33,082	59,716	0	2,289	232,040	981,943	463,379	0	1,445,322	202,774	175	37,377	1,685,648	1,917,688	
1989	63,773	7,757	2,535	0	2,103	76,168	895,123	88,119	0	983,242	948,543	0	29,743	1,961,528	2,037,696	

Table B.14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system, 1972-1989.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Brown and Pink	Blue Crab	Eastern Oyster	Other	Total		
							White	Other	Total							
1972	11,897	2,505	420	51	59,340	74,213	7,652	267,860	0	275,512	7,065	0	0	282,577	356,791	
1973	28,518	5,357	1,962	805	107,710	144,351	161,261	743,259	0	904,520	4,569	0	32	909,121	1,053,472	
1974	34,893	11,183	4,979	105	136,863	188,022	38,059	296,269	0	334,328	44,340	0	0	378,668	566,690	
1975	38,408	20,221	3,937	77	127,412	190,054	130,410	470,171	0	600,581	20,980	1,335	0	622,896	812,951	
1976	44,543	11,161	6,386	205	110,364	172,659	172,648	442,337	0	614,985	21,409	0	0	636,394	809,054	
1977	59,304	29,919	7,736	4	91,430	188,393	301,665	442,067	0	743,732	25,808	0	0	769,540	957,933	
1978	153,759	35,306	11,977	0	178,792	379,833	395,437	692,600	0	1,088,038	2,137	0	0	1,090,174	1,470,007	
1979	165,489	55,658	25,873	2,562	199,250	448,833	1,040,519	1,646,613	0	2,687,133	10,907	0	23	2,698,063	3,146,896	
1980	108,898	21,899	29,992	5,029	302,718	468,525	1,199,080	592,841	0	1,791,921	7,819	0	0	1,799,740	2,268,265	
1981	34,387	5,938	7,860	2,118	199,312	249,616	788,033	439,698	0	1,227,731	3,850	0	0	1,231,581	1,481,197	
1982	39,150	35,720	10,638	728	849	87,086	620,283	696,440	0	1,316,723	43,920	0	0	1,360,642	1,447,728	
1983	68,644	72,870	22,966	0	1,552	166,032	1,419,771	896,635	0	2,316,407	93,369	0	18	2,409,793	2,575,825	
1984	39,855	30,909	5,985	169	246	77,165	1,935,025	1,989,798	0	3,924,824	27,079	0	507	3,952,409	4,029,574	
1985	23,813	82,569	7,756	444	3,263	117,845	1,016,135	366,653	0	1,382,788	44,889	0	59,735	1,487,411	1,605,256	
1986	36,612	108,600	4,764	45	5,808	155,830	1,146,130	904,608	0	2,050,737	273,693	0	29,259	2,353,689	2,509,519	
1987	61,085	62,060	5,479	0	8,284	136,908	1,710,235	1,193,495	36	2,903,766	102,021	1,449	8,273	3,015,509	3,152,416	
1988	119,231	40,652	17,647	0	1,374	178,904	1,025,838	629,518	0	1,655,356	80,745	500	22,318	1,758,919	1,937,823	
1989	70,311	11,863	1,007	0	1,734	84,916	897,135	132,617	0	1,029,752	384,931	0	19,314	1,433,997	1,518,913	

Table B.15. Weight (lb) of each species landed commercially from the upper Laguna Madre system, 1972-1989.

Year	Finfish										Shellfish						Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total				
							Brown and Pink	White	Other								
1972	493,569	10,284	50,681	662	520,016	1,075,212	1,610	10,010	0	11,620	4,166	0	15,786	1,090,998			
1973	356,228	2,075	35,112	680	448,982	843,077	401,618	37,770	0	439,388	986	0	440,447	1,283,524			
1974	498,034	9,338	81,502	421	740,792	1,330,087	0	0	0	0	2,002	0	2,002	1,332,089			
1975	310,233	9,037	56,327	6,313	824,877	1,206,787	0	0	0	0	8,904	0	8,904	1,215,691			
1976	612,140	6,316	72,032	2,871	646,572	1,339,931	0	0	0	0	815	0	815	1,340,746			
1977	519,296	5,205	41,537	495	320,906	887,439	0	0	0	0	126,811	0	126,811	1,014,250			
1978	558,383	4,166	24,681	2,337	203,401	792,968	0	0	0	0	159,517	0	159,517	952,485			
1979	562,558	3,362	31,619	0	222,913	820,452	0	0	0	0	26,911	0	26,911	847,363			
1980	512,336	8,559	46,722	0	449,003	1,016,620	0	0	0	0	6,688	0	6,688	1,023,308			
1981	343,717	5,031	35,306	2	267,415	651,471	0	0	0	0	0	0	0	651,471			
1982	778,749	21,881	60,695	0	312	861,637	0	0	0	0	8,913	0	8,913	870,550			
1983	1,021,586	50,078	80,860	0	745	1,153,269	0	0	0	0	12,290	0	12,290	1,165,559			
1984	373,819	28,287	43,586	0	1,569	447,261	0	0	0	0	19,727	0	19,727	466,988			
1985	284,762	17,998	36,410	0	2,098	341,268	171,060	1,266	0	172,326	92,515	0	265,241	606,509			
1986	293,320	24,618	27,383	0	2,080	347,401	80,975	171	0	81,146	76,286	0	157,742	505,143			
1987	335,407	10,847	5,152	0	677	352,083	240,689	644	0	241,333	179,427	0	420,925	775,008			
1988	207,426	4,993	4,810	0	1,868	219,097	268,061	2,929	0	270,990	102,815	438	374,339	593,436			
1989	221,250	473	502	0	86	222,311	68,651	0	0	68,651	10,332	263	79,459	301,770			

Table B.16. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system, 1972-1989.

Year	Finfish										Shellfish							Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab	Eastern Oyster	Other	Total					
							Brown and Pink	White	Other									
1972	62,999	2,866	2,803	61	154,183	222,913	177	10,190	0	10,367	427	0	10,794	233,707				
1973	48,924	628	1,932	75	155,321	206,880	136,554	31,895	0	168,449	99	0	168,570	375,450				
1974	101,181	3,221	4,427	29	248,906	357,764	0	0	0	0	277	0	277	358,041				
1975	66,594	3,751	4,091	696	329,056	404,188	0	0	0	0	1,529	0	1,529	405,717				
1976	166,606	3,091	6,073	408	303,910	480,089	0	0	0	0	177	0	177	480,266				
1977	165,428	3,272	3,130	50	186,770	358,650	0	0	0	0	28,854	0	28,854	387,504				
1978	229,314	3,432	2,831	210	163,276	399,062	0	0	0	0	45,689	0	45,689	444,751				
1979	244,453	3,312	5,231	0	206,270	459,266	0	0	0	0	6,836	0	6,836	466,102				
1980	265,969	6,422	7,905	0	411,735	692,032	0	0	0	0	2,704	0	2,704	694,736				
1981	199,135	5,602	7,457	0	293,588	505,782	0	0	0	0	0	0	0	505,782				
1982	535,025	24,168	16,934	0	351	576,477	0	0	0	0	3,832	0	3,832	580,309				
1983	708,864	53,945	22,016	0	1,063	785,887	0	0	0	0	6,073	0	6,073	791,960				
1984	195,672	27,576	7,706	0	777	231,731	0	0	0	0	8,056	0	8,056	239,786				
1985	164,454	18,347	7,320	0	1,816	191,937	107,763	1,313	0	109,076	30,882	0	140,158	332,095				
1986	218,248	24,088	7,752	0	1,976	252,064	95,766	198	0	95,964	26,273	0	122,393	374,456				
1987	282,555	9,909	1,678	0	178	294,320	350,840	1,317	0	352,158	74,901	0	427,116	721,437				
1988	181,025	7,536	2,082	0	2,147	192,789	298,947	4,023	0	302,971	42,507	1,250	346,795	539,584				
1989	224,635	928	311	0	55	225,928	75,313	0	0	75,313	5,693	720	81,826	307,754				

Table B.17. Weight (lb) of each species landed commercially from the lower Laguna Madre system, 1972-1989.

Year	Finfish										Shellfish						Grand Total									
	Sheeps-head					Mullet					Brown and Pink			Shrimp				Blue Crab			Eastern Oyster			Total		
	Black drum	Flounder	head																							
1972	280,428	14,612	19,032	0	960,232	1,274,304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,190	0	0	1,190	1,275,494	
1973	252,439	7,595	13,623	2,800	1,107,876	1,384,333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,593	486	0	0	12,079	1,396,412
1974	319,978	26,301	27,821	341	1,196,897	1,571,338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,700	3,264	0	0	15,964	1,587,302
1975	317,499	27,549	40,155	4,000	1,314,806	1,704,009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,500	7,124	0	0	10,624	1,714,633
1976	932,614	43,817	39,326	2,150	1,315,114	2,333,021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298,952	4,591	0	0	303,543	2,636,564
1977	378,258	35,255	27,603	0	919,099	1,360,215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	975,244	9,066	0	0	984,310	2,344,525
1978	492,760	12,552	60,371	824	770,241	1,336,748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196,070	3,071	64	0	199,205	1,535,953
1979	434,749	32,867	45,826	0	711,873	1,225,315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122,279	1,963	0	0	124,242	1,349,557
1980	210,016	11,334	82,148	269	716,138	1,019,905	0	0	0	0	0	0	0	0	0	0	0	0	0	0	518,342	15,494	0	0	533,836	1,553,741
1981	157,654	10,855	24,770	5,700	525,901	724,880	0	0	0	0	0	0	0	0	0	0	0	0	0	0	815,087	0	0	0	815,087	1,539,967
1982	274,561	33,825	11,273	0	1,955	321,614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	747,180	3,572	0	0	750,752	1,072,366
1983	238,784	44,935	8,089	126	13,063	304,997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	479,092	3,433	0	0	482,525	787,522
1984	136,526	10,082	2,917	0	58	149,583	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355,207	3,276	0	0	358,483	508,066
1985	171,176	22,383	2,567	0	5,884	202,010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258,041	5,847	2,840	0	266,728	468,738
1986	120,296	78,686	2,632	39	11,253	212,906	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229,754	123	0	0	229,877	442,783
1987	177,004	60,677	1,919	0	1,072	240,672	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206,519	4,081	1,792	0	212,392	453,064
1988	79,884	58,817	2,658	0	15,870	157,229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	700	9,069	0	0	9,769	166,998
1989	296,370	31,146	988	0	4,634	333,138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,403	770	0	0	2,173	335,311

Table 8.18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system, 1972-1989.

Year	Finfish										Shellfish						Grand Total	
	Black drum	Flounder	Sheeps-head	Mullet	Other	Total	Shrimp			Blue Crab			Eastern Oyster	Other	Total			
							Brown and Pink	White	Other	Total	Blue Crab	Eastern Oyster				Other		
1972	26,777	3,490	1,029	0	232,138	263,434	0	0	0	0	0	0	0	0	0	0	710	264,143
1973	27,987	2,068	936	140	312,990	344,120	0	0	0	0	0	0	1,232	498	0	0	1,730	345,850
1974	39,015	6,833	1,620	28	342,867	390,365	0	0	0	0	0	0	1,778	3,755	0	0	5,533	395,898
1975	44,416	9,035	2,715	360	422,812	479,339	0	0	0	0	0	0	595	8,000	0	0	8,595	487,934
1976	211,200	16,055	3,262	208	515,924	746,648	0	0	0	0	0	0	72,227	4,767	0	0	76,994	823,642
1977	84,438	16,293	2,140	0	428,088	530,960	0	0	0	0	0	0	239,521	8,956	0	0	248,477	779,436
1978	125,472	7,677	6,516	49	485,987	625,702	0	0	0	0	0	0	50,571	4,010	10	0	54,590	680,292
1979	141,055	27,729	4,953	0	564,040	737,777	0	0	0	0	0	0	30,799	2,235	0	0	33,034	770,811
1980	98,196	8,799	8,569	13	644,238	759,816	0	0	0	0	0	0	130,943	23,234	0	0	154,177	913,992
1981	86,387	11,610	3,882	570	600,866	703,314	0	0	0	0	0	0	234,289	0	0	0	234,289	937,603
1982	145,355	37,162	2,013	0	361	184,892	0	0	0	0	0	0	212,256	6,531	0	0	218,787	403,679
1983	126,295	45,582	1,108	57	3,543	176,585	0	0	0	0	0	0	183,548	5,796	0	0	189,344	365,929
1984	80,979	10,316	604	0	37	91,937	0	0	0	0	0	0	102,232	6,415	0	0	108,647	200,584
1985	122,414	24,367	672	0	3,542	150,995	0	0	0	0	0	0	86,400	11,732	4,080	0	102,212	253,206
1986	85,440	77,733	682	10	11,428	175,294	0	0	0	0	0	0	68,675	231	0	0	68,906	244,199
1987	100,984	59,353	604	0	638	161,579	0	0	0	0	0	0	53,317	8,446	2,165	0	63,928	225,507
1988	54,606	86,594	665	0	20,168	162,032	0	0	0	0	0	0	734	21,545	0	0	22,279	184,311
1989	153,078	32,544	255	0	2,733	188,610	0	0	0	0	0	0	869	3,131	0	0	4,000	192,611

Appendix C. Weight (lb) and ex-vessel value (\$) of commercial finfish and shellfish, except shrimp, landings from the Gulf of Mexico grid zones during 1972-1989.

Table C.1. Weight (lb) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 17.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	8,648	20,354	22,442	0	0	15,729	111,241	56,931	235,345	0	0	0	235,345	
1973	4,594	16,800	9,662	0	0	8,566	88,998	34,586	163,206	93,037	0	93,037	256,243	
1974	3,550	22,859	14,219	0	0	6,825	52,636	48,171	148,260	0	0	0	148,260	
1975	9,047	15,638	7,034	0	0	2,669	23,008	40,407	97,803	1,382	0	1,382	99,185	
1976	2,349	13,498	2,835	0	0	150	29,209	20,116	68,157	501	0	501	68,658	
1977	5,810	2,888	1,615	0	200	629	36,211	9,105	56,458	0	0	0	56,458	
1978	20,455	2,539	143	0	0	0	1,546	3,480	28,163	1,268	13	1,281	29,444	
1979	114	1,176	587	0	0	0	3,222	3,772	8,871	100	0	100	8,971	
1980	113	3,619	471	0	0	582	825	4,679	10,289	3,149	0	3,149	13,438	
1981	71	2,816	532	619	0	4	235	2,485	6,762	5,860	0	5,860	12,622	
1982	62	4,010	1,450	0	0	0	0	2,131	7,653	2,555	114	2,669	10,322	
1983	247	3,715	474	0	0	0	5,549	2,441	12,426	5,355	150	5,505	17,931	
1984	307	4,112	171	0	0	199	6,102	966	11,857	962	200	1,162	13,019	
1985	20	9,021	194	0	0	14,515	17,193	8,064	49,007	2,211	71	2,282	51,289	
1986	1,735	15,135	2,721	0	337	26,573	107,410	24,940	178,851	29,910	5,467	35,377	214,228	
1987	49,541	30,645	12,525	0	766	5,203	63,586	27,413	189,679	19,365	4,720	24,085	213,764	
1988	161,158	19,457	4,566	0	275	46,827	35,649	527,142	795,074	33,424	6,188	39,612	834,686	
1989	374	9,490	1,312	0	475	5,553	22,588	125,483	165,275	32,742	5,747	38,489	203,764	

Table C.2. Ex-vessel value (\$) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 17.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	1,141	5,809	2,330	0	0	1,988	51,966	11,119	74,354	0	0	0	74,354	
1973	583	5,808	1,119	0	0	1,222	46,982	9,531	65,244	8,954	0	8,954	74,198	
1974	496	7,088	1,618	0	0	914	30,560	12,456	53,133	0	0	0	53,133	
1975	1,407	5,986	995	0	0	395	14,352	11,600	34,734	166	0	166	34,900	
1976	436	5,250	494	0	0	23	24,103	5,817	36,123	60	0	60	36,183	
1977	1,558	1,529	332	0	50	159	32,953	3,099	39,679	0	0	0	39,679	
1978	4,091	1,222	17	0	0	0	1,726	831	7,886	159	3	162	8,048	
1979	23	621	139	0	0	0	4,280	4,025	9,088	30	0	30	9,118	
1980	16	2,238	53	0	0	262	1,170	756	4,495	694	0	694	5,190	
1981	17	1,562	141	71	0	1	458	481	2,732	1,519	0	1,519	4,252	
1982	20	2,237	302	0	0	0	0	357	2,916	741	46	787	3,703	
1983	70	2,224	106	0	0	0	9,062	377	11,840	2,545	60	2,605	14,444	
1984	94	3,314	37	0	0	328	11,049	169	14,993	333	140	473	15,466	
1985	5	7,180	49	0	0	21,107	33,145	4,222	65,706	887	27	915	66,621	
1986	1,158	12,125	861	0	235	36,456	209,631	16,227	276,692	15,374	3,137	18,510	295,203	
1987	36,173	26,224	4,002	0	669	7,909	119,165	11,606	205,748	7,884	2,088	9,973	215,720	
1988	77,572	17,514	2,096	0	275	58,508	70,397	734,156	960,518	14,682	3,008	17,689	978,207	
1989	396	8,735	516	0	434	6,612	47,807	258,584	323,085	16,136	1,679	17,815	340,900	

Table C.3. Weight (lb) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 18.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Sheeps-head	Flounder	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	24,214	50,831	106,855	8,747	18,509	17,916	138,002	325,982	691,056	14,405	2,462	16,867	707,923	
1973	18,278	29,712	83,295	10,403	14,717	22,056	104,610	587,785	870,856	75,010	904	75,914	946,770	
1974	9,460	40,897	89,370	38,735	12,511	21,612	152,343	360,570	725,498	39,804	10,134	49,938	775,436	
1975	7,992	26,598	67,940	527	17,807	20,999	111,594	348,137	601,594	37,960	3,630	41,590	643,184	
1976	12,269	33,715	68,404	225	17,651	20,945	110,194	318,080	581,483	19,771	4,941	24,712	606,195	
1977	28,861	24,444	55,084	535	13,865	8,158	97,198	267,071	495,216	11,038	7,813	18,851	514,067	
1978	4,955	8,924	32,429	1,340	10,124	17,470	100,449	123,241	298,932	502	11,164	11,666	310,598	
1979	14,324	17,147	20,653	2,753	5,629	7,020	62,133	189,101	318,760	417	577	994	319,754	
1980	7,181	4,856	35,081	1,076	1,700	13,957	58,750	73,282	195,883	485	0	485	196,368	
1981	4,900	6,657	16,644	9,701	8,289	4,796	21,231	25,944	98,162	519	0	519	98,681	
1982	4,683	15,794	56,556	3,204	15,532	10,477	97,911	33,332	237,489	121	1,310	1,431	238,920	
1983	2,137	2,264	37,650	19,922	6,997	6,876	97,665	14,115	187,626	26,709	1,288	27,997	215,623	
1984	3,048	7,403	32,968	9,350	5,542	5,822	50,802	17,010	131,945	26,378	13,380	39,758	171,703	
1985	5,452	8,062	27,510	39,653	1,097	14,389	104,567	65,428	266,158	21,566	7,031	28,597	294,755	
1986	2,132	7,013	19,608	3,621	6,260	30,075	314,680	139,110	522,499	40,587	3,656	44,243	566,742	
1987	2,269	8,200	6,296	710	1,964	172,058	294,123	251,351	736,971	2,816	6,989	9,805	746,776	
1988	1,135	2,175	1,748	0	757	169,093	180,803	135,070	490,781	8,126	618	8,744	499,525	
1989	118	3,010	7,747	2,498	1,977	90,066	173,502	153,270	432,188	404	52	456	442,322	

Table C.4. Ex-vessel value (\$) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 18.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	2,883	29,901	4,890	467	2,287	2,221	67,045	55,107	164,802	1,141	348	1,489	166,291	
1973	2,384	29,202	3,679	559	2,235	3,313	56,653	169,304	267,329	13,404	138	13,542	280,871	
1974	1,212	28,669	4,724	2,133	2,154	3,231	96,378	73,427	211,927	3,455	1,672	5,127	217,054	
1975	1,431	24,339	3,440	102	3,506	3,810	75,135	105,837	217,599	4,366	771	5,137	222,736	
1976	2,162	31,275	5,232	36	3,621	4,102	87,926	107,462	241,817	2,566	1,291	3,858	245,675	
1977	6,143	28,294	4,440	120	3,485	1,908	85,615	99,989	229,994	2,199	2,218	4,417	234,411	
1978	1,095	18,076	1,413	536	3,379	4,369	94,225	41,957	165,051	91	3,189	3,280	168,331	
1979	5,221	13,944	3,082	445	2,361	2,838	74,382	97,241	199,514	146	179	325	199,839	
1980	1,630	24,686	1,057	164	881	5,504	78,031	53,889	165,842	118	0	118	165,959	
1981	1,044	11,550	1,324	1,233	4,354	2,536	28,410	14,844	65,297	208	0	208	65,505	
1982	1,905	48,193	4,289	486	9,066	5,367	168,972	7,810	246,088	48	558	606	246,694	
1983	885	23,658	619	3,224	4,925	4,177	144,161	3,676	185,325	7,188	501	7,689	193,014	
1984	1,099	22,016	1,698	1,183	3,384	4,279	85,622	8,353	127,634	6,616	4,769	11,385	139,020	
1985	3,281	24,838	1,892	5,387	642	10,605	183,406	45,492	275,544	5,848	3,677	9,526	285,070	
1986	1,144	15,162	2,042	573	4,173	38,887	567,374	195,470	824,824	12,806	1,708	14,514	839,339	
1987	692	6,035	2,703	113	1,533	231,745	560,635	471,118	1,274,573	938	2,792	3,729	1,278,303	
1988	431	2,311	774	0	578	285,690	401,660	116,484	807,929	3,824	210	4,033	811,962	
1989	56	8,808	753	345	1,682	149,580	398,581	163,551	723,355	164	24	188	723,543	

Table C.5. Weight (lb) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 19.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	10,274	99,502	8,240	3,000	4,089	10,048	239,890	100,327	475,370	0	199	199	475,569	
1973	22,703	93,619	9,973	38,274	519	23,865	206,663	295,491	691,107	0	1,555	1,555	692,662	
1974	13,966	101,183	5,185	15,966	7,491	13,826	173,127	263,607	594,351	156	344	500	594,851	
1975	4,686	89,944	4,378	1,566	7,487	12,549	134,793	138,587	393,990	0	555	555	394,545	
1976	21,860	65,359	7,678	17,424	8,741	15,340	134,083	92,422	362,907	0	1,133	1,133	364,040	
1977	10,039	33,124	1,953	239	4,142	3,538	57,780	24,557	135,372	137	532	669	136,041	
1978	4,464	6,646	663	577	3,236	10,972	69,671	7,143	103,372	0	50	50	103,422	
1979	8,555	1,208	1,969	26,066	2,045	2,698	41,243	55,955	139,739	0	0	0	139,739	
1980	591	2,265	1,700	3,330	540	5,214	70,449	17,191	101,280	0	0	0	101,280	
1981	1,356	609	102	0	5,414	10,848	49,586	13,852	81,767	0	0	0	81,767	
1982	470	19,412	848	0	8,578	29,583	153,504	9,057	221,452	0	0	0	221,452	
1983	3,042	25,268	691	72	10,200	22,364	81,760	20,768	164,165	2,611	2,128	4,739	168,904	
1984	1,204	24,865	403	420	6,374	13,258	134,083	68,331	248,938	0	4,151	4,151	253,089	
1985	2,544	17,593	772	0	2,861	117,476	116,553	162,669	420,468	7,216	4,725	11,941	432,409	
1986	893	4,375	118	0	1,263	40,971	80,065	122,677	250,362	6,000	2,816	8,816	259,178	
1987	1,297	24,006	43	0	4,561	14,571	44,147	37,504	126,129	14,409	1,767	16,176	142,305	
1988	3,307	28,861	1,035	671	2,470	148,631	185,750	147,817	518,522	43,563	3,250	46,813	565,335	
1989	2,022	30,440	982	202	5,724	101,148	116,428	93,976	350,922	1,857	3,636	5,493	356,415	

Table C.6. Ex-vessel value (\$) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 19.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	1,234	27,494	942	150	342	1,553	107,237	25,553	164,105	0	31	31	164,136	
1973	2,899	25,653	1,219	2,108	69	4,093	111,256	65,614	212,912	0	191	191	213,103	
1974	1,907	28,099	515	1,073	837	1,693	93,218	55,482	182,824	19	69	88	182,911	
1975	737	29,590	537	111	1,192	2,054	74,542	26,981	135,744	0	96	96	135,841	
1976	4,560	19,055	1,000	1,415	1,323	3,588	82,462	23,571	136,974	0	308	308	137,282	
1977	1,951	16,541	340	26	981	1,070	39,625	11,471	72,005	29	113	142	72,146	
1978	1,022	3,452	33	76	922	2,174	63,696	3,894	75,269	0	13	13	75,282	
1979	2,992	658	289	2,002	460	745	43,731	39,865	90,743	0	0	0	90,743	
1980	380	1,999	243	500	260	2,418	114,452	13,087	133,339	0	0	0	133,339	
1981	285	563	34	0	2,928	5,182	74,469	15,523	98,984	0	0	0	98,984	
1982	94	18,459	186	0	4,020	17,093	271,640	5,576	317,069	0	0	0	317,069	
1983	1,654	18,931	88	18	5,267	22,820	119,929	6,230	174,938	640	1,009	1,649	176,587	
1984	663	17,432	96	188	4,835	11,957	242,155	22,956	300,282	0	2,854	2,854	303,136	
1985	894	13,455	61	0	1,674	105,342	220,532	131,010	472,968	1,798	4,069	5,868	478,835	
1986	424	3,717	41	0	805	34,532	137,600	221,636	398,756	2,050	769	2,819	401,575	
1987	708	21,501	11	0	2,872	15,590	67,449	20,603	128,735	3,602	511	4,114	132,849	
1988	4,634	25,786	249	186	1,803	202,085	343,854	129,605	708,202	12,981	857	13,838	722,040	
1989	1,564	36,508	255	30	5,070	132,304	231,038	78,388	485,158	1,102	1,620	2,722	487,880	

Table C.7. Weight (lb) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 20.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	1,260	4,088	0	1,600	106	2,910	22,671	48,062	80,697	0	0	0	80,697	
1973	4,635	2,815	0	2,500	381	150	3,083	19,354	32,918	0	0	0	32,918	
1974	4,749	2,050	72	4,500	0	0	348	37,558	49,277	0	0	0	49,277	
1975	1,086	1,545	50	4,800	0	0	81	40,951	48,513	0	0	0	48,513	
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	
1977	116	298	0	100	0	0	0	337	851	0	0	0	851	
1978	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	
1980	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	
1982	1,136	403	0	0	0	0	616	0	2,155	0	0	0	2,155	
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	
1984	4,603	13,843	2,577	0	745	5,680	76,541	4,926	108,915	0	1,450	1,450	110,365	
1985	1,510	7,738	16,764	3,000	2,091	77,469	157,944	43,788	310,304	0	3,409	3,409	313,713	
1986	7,818	21,322	7,817	0	3,305	89,987	218,273	173,169	521,691	0	2,206	2,206	523,897	
1987	24,882	6,378	7,611	0	849	41,108	160,789	51,453	293,070	320	1,999	2,319	295,389	
1988	33,071	14,234	5,092	531	2,802	80,766	110,049	183,687	430,232	500	5,473	5,973	436,205	
1989	1,442	7,109	39	23,011	4,093	63,306	66,975	72,259	238,234	422	443	865	239,099	

Table C.8. Ex-vessel value (\$) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 20.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	132	950	0	64	16	90	10,661	13,060	24,974	0	0	0	24,974	
1973	993	791	0	125	72	22	1,397	4,723	8,124	0	0	0	8,124	
1974	613	638	4	225	0	0	139	11,486	13,105	0	0	0	13,105	
1975	153	475	2	480	0	0	32	8,665	9,808	0	0	0	9,808	
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	
1977	35	149	0	5	0	0	0	172	361	0	0	0	361	
1978	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	
1980	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	
1982	682	383	0	0	0	0	1,170	0	2,235	0	0	0	2,235	
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	
1984	1,367	10,449	515	0	500	4,960	143,495	2,980	164,266	0	1,352	1,352	165,618	
1985	1,315	5,879	2,762	300	1,641	55,948	314,558	43,686	426,090	0	1,506	1,506	427,597	
1986	5,002	18,367	2,524	0	2,350	71,091	438,096	118,118	655,548	0	962	962	656,511	
1987	10,320	5,445	2,515	0	766	44,745	329,887	39,937	433,615	80	733	813	434,428	
1988	31,700	12,853	2,001	53	2,461	92,737	185,404	158,251	485,460	230	3,115	3,345	488,805	
1989	1,778	5,901	19	4,431	3,886	90,817	138,951	81,696	327,478	278	324	602	328,080	

Table C.9. Weight (lb) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 21.0 , 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	750	101,099	0	4,800	0	50,936	726,173	34,567	918,325	0	0	0	918,325	
1973	14,505	52,700	13,524	1,127	396	45,632	378,081	95,020	600,985	0	0	0	600,985	
1974	35,640	103,966	13,184	23,500	0	42,735	364,477	185,202	768,704	0	0	0	768,704	
1975	39,693	78,246	8,220	5,050	1,733	35,271	357,973	345,785	871,971	400	0	400	872,371	
1976	55,541	36,148	9,444	4,000	401	35,218	221,606	175,068	537,426	0	2,107	2,107	539,533	
1977	17,966	9,091	5,909	0	1,775	9,673	248,811	20,235	313,460	0	179	179	313,639	
1978	3,326	2,856	1,129	26,351	339	11,467	216,627	38,166	300,261	0	0	0	300,261	
1979	3,659	2,651	2,935	0	0	4,582	108,134	3,482	125,443	0	0	0	125,443	
1980	3,357	4,134	64	0	0	3,335	101,584	868	113,342	0	0	0	113,342	
1981	7,972	8,590	1,894	0	0	14,194	94,833	53,254	180,737	0	0	0	180,737	
1982	18,158	16,070	722	0	0	24,708	117,550	53,921	231,129	0	1,855	1,855	232,984	
1983	6,563	8,339	237	418	9	5,531	76,920	30,259	128,276	460	1,652	2,112	130,388	
1984	21,717	3,240	627	0	41	8,130	184,674	40,423	258,852	0	1,765	1,765	260,617	
1985	2,408	12,070	332	0	0	26,276	267,274	51,042	359,402	0	2,995	2,995	362,397	
1986	3,007	6,617	900	207	153	36,698	197,243	78,307	323,132	6,356	703	7,059	330,191	
1987	18,446	2,228	3,937	0	0	112,196	138,835	58,997	334,639	393	802	1,195	335,834	
1988	9,897	865	5,107	0	161	24,439	294,592	59,448	394,509	901	628	1,529	396,038	
1989	119	535	10,332	0	723	45,496	209,656	92,742	359,603	372	9,945	10,317	369,920	

Table C.10. Ex-vessel value (\$) of each species, except shrimp, landed commercially from the Gulf of Mexico grid zone 21.0, 1972-1989.

Year	Finfish										Shellfish			Grand Total
	Black drum	Flounder	Sheeps-head	Mullet	Cobia	Grouper	Snapper	Other	Total	Blue crab	Other	Total		
1972	75	19,143	0	240	0	5,077	335,073	5,712	365,320	0	0	0	365,320	
1973	1,442	11,066	676	89	59	5,848	185,244	13,345	217,769	0	0	0	217,769	
1974	3,836	22,761	680	1,484	0	5,104	195,479	21,393	250,737	0	0	0	250,737	
1975	3,158	20,151	276	353	260	4,952	229,369	41,430	299,948	40	0	40	299,988	
1976	8,780	10,733	661	200	60	6,678	158,657	25,505	211,274	0	274	274	211,548	
1977	2,269	2,644	430	0	198	2,016	262,670	2,895	273,122	0	36	36	273,158	
1978	597	1,262	169	1,917	119	3,216	243,851	14,057	265,186	0	0	0	265,186	
1979	549	1,245	293	0	0	3,111	139,158	2,780	147,136	0	0	0	147,136	
1980	1,018	2,259	10	0	0	1,548	157,617	511	162,962	0	0	0	162,962	
1981	3,206	6,910	189	0	0	6,470	164,485	31,989	213,250	0	0	0	213,250	
1982	6,288	13,171	143	0	0	20,256	227,405	12,793	280,056	0	390	390	280,446	
1983	3,038	6,375	39	60	9	4,867	110,355	7,248	131,991	245	409	654	132,646	
1984	6,111	2,420	103	0	29	5,940	335,987	15,555	366,145	0	523	523	366,668	
1985	693	11,409	53	0	0	19,723	490,787	25,120	547,785	0	620	620	548,405	
1986	1,135	5,348	142	315	134	35,536	358,482	57,063	458,155	2,161	247	2,408	460,562	
1987	17,835	2,122	1,267	0	0	152,766	236,786	62,723	473,499	134	660	794	474,293	
1988	7,176	1,014	1,040	0	156	21,283	561,805	90,271	682,744	937	241	1,178	683,923	
1989	79	772	2,066	0	551	43,367	369,200	108,598	524,634	376	1,543	1,919	526,553	

Appendix D. Monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from Texas bay systems during 1989.

Table D.1. Weight (lb) of each species landed commercially from the Sabine Lake system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	100	0	422	680	480	385	0	0	0	2,067
Black drum	0	0	0	0	0	0	0	0	15	0	65	0	80
Flounder, unclassified	0	0	0	15	30	15	47	0	21	36	371	0	535
Gafftopsail catfish	0	0	0	20	50	0	33	0	0	0	0	0	103
Kingfish, unclassified	0	0	0	10	30	0	64	0	10	0	0	0	114
Sheepshead	380	350	350	250	40	105	61	0	0	175	404	350	2,465
Total finfish	380	350	350	395	150	542	885	480	431	211	840	350	5,364
SHELLFISH													
Shrimp (heads on)	0	0	0	0	0	0	0	975	33,589	85,134	61,124	1,669	182,492
Shrimp, white	0	0	0	0	0	0	0	975	33,589	85,134	61,124	1,669	182,492
Total shrimp	0	0	0	0	0	0	0	975	33,589	85,134	61,124	1,669	182,492
Crab, blue	56,788	9,067	8,206	141,132	201,308	294,045	213,483	130,569	29,620	127,745	11,830	300	1,224,093
Total shellfish	56,788	9,067	8,206	141,132	201,308	294,045	213,483	131,544	63,209	212,879	72,954	1,969	1,406,585
Grand Total	57,168	9,417	8,556	141,527	201,458	294,587	214,368	132,024	63,640	213,090	73,794	2,319	1,411,949

Table D.2. Ex-vessel value (\$) of each species landed commercially from the Sabine Lake system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	130	0	549	884	624	481	0	0	0	2,668
Black drum	0	0	0	0	0	0	0	0	5	0	39	0	44
Flounder, unclassified	0	0	0	12	24	12	38	0	17	36	363	0	501
Gafftopsail catfish	0	0	0	6	15	0	8	0	0	0	0	0	29
Kingfish, unclassified	0	0	0	3	9	0	19	0	3	0	0	0	34
Sheepshead	171	158	158	113	12	40	15	0	0	53	121	158	997
Total finfish	171	158	158	264	60	601	964	624	506	89	523	158	4,273
SHELLFISH													
Shrimp (heads on)	0	0	0	0	0	0	0	586	23,928	54,794	29,253	753	109,314
Shrimp, white	0	0	0	0	0	0	0	586	23,928	54,794	29,253	753	109,314
Total shrimp													
Crab, blue	28,448	4,560	4,142	64,367	91,358	119,296	75,701	47,227	12,379	67,346	5,793	147	520,764
Total shellfish	28,448	4,560	4,142	64,367	91,358	119,296	75,701	47,813	36,307	122,140	35,046	900	630,078
Grand Total	28,619	4,717	4,299	64,630	91,418	119,897	76,665	48,437	36,812	122,228	35,569	1,058	634,350

Table D.3. Weight (lb) of each species landed commercially from the Galveston Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	3	608	1,147	2,250	102	1,101	337	60	0	5,608
Black drum	8,974	3,215	256	342	140	237	1,822	31	40	156	2,299	4,309	21,821
Florida pompano	0	0	0	27	97	25	96	0	37	17	0	0	299
Flounder, unclassified	119	61	155	154	537	743	545	1,156	633	3,035	6,973	477	14,588
Gafftopsail catfish	0	27	0	0	66	2	0	0	0	0	0	0	95
Kingfish, unclassified	0	253	0	303	9	1,320	211	2	2	29	198	0	2,327
Kingfish, Southern	31	0	0	0	0	0	0	0	0	0	0	0	31
Mullet, unclassified	238	18	84	23,879	53,331	136	22,971	3,642	2,100	1,372	220	40	108,031
Seatrout, sand	33	0	0	0	10	0	30	20	50	9	35	23	210
Sheepshead	1,015	6,670	544	3,272	1,245	321	251	275	602	784	613	597	16,189
Unclassified food	0	0	59	254	2,247	162	2,772	1,960	414	2,604	1,387	140	11,999
Unclassified scrap	787	60	0	0	9,616	3,424	77	263	2,871	11,299	11,481	28	39,906
Total finfish	11,197	10,304	1,098	28,234	67,906	7,517	31,025	7,451	7,850	19,642	23,266	5,614	221,104
SHELLFISH													
Shrimp (heads on)	8,633	916	0	0	813,306	955,013	453,125	1,853	4,539	3,880	0	0	2,241,265
Shrimp, brown	0	0	840	7,338	0	0	0	0	0	0	0	0	8,178
Shrimp, pink	0	1,186	0	0	36,490	9,676	71,969	512,728	306,785	339,829	506,816	21,212	1,806,689
Shrimp, white	8,633	2,102	840	7,338	849,796	964,689	525,094	514,581	311,324	343,709	506,816	21,212	4,056,132
Total shrimp	8,633	4,298	840	7,338	889,592	974,374	1,000,188	1,367,309	618,119	687,538	1,013,632	42,424	8,112,804
Crab, blue	48,074	15,585	21,815	71,048	223,274	382,552	540,815	436,081	277,430	366,951	300,176	18,742	2,702,543
Crab, stone	361	160	188	212	688	1,125	959	0	1,185	716	556	3	6,153
Oyster, Eastern	80,646	61,082	82,168	120,212	68,285	101,886	0	33,111	33,828	18,900	80,153	25,219	705,490
Squid, unclassified	13	17	270	419	2,378	749	521	493	626	1,321	441	39	7,287
Total shellfish	137,727	78,946	105,281	199,229	1,144,421	1,451,001	1,067,389	984,266	624,393	731,608	888,142	65,215	7,477,618
Grand Total	148,924	89,250	106,879	227,463	1,212,327	1,458,518	1,098,414	991,717	632,243	751,239	911,408	70,829	7,698,709

Table D.4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	1	153	300	568	33	379	143	16	0	1,592
Black drum	9,736	2,761	221	279	130	228	1,190	20	27	92	1,903	3,232	19,819
Florida pompano	0	0	0	34	49	13	48	0	52	13	0	0	207
Flounder, unclassified	162	66	224	209	624	928	592	1,358	700	3,713	8,477	685	17,737
Gafftopsail catfish	0	19	0	0	22	1	0	0	0	0	0	0	41
Kingfish, unclassified	0	78	0	144	3	455	63	1	1	16	56	0	817
Kingfish, Southern	15	0	0	0	0	0	0	0	0	0	0	0	15
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	3	0	0	3
Mullet, unclassified	146	3	78	3,741	5,447	98	4,601	918	420	147	22	10	15,629
Seatrout, sand	20	0	0	0	2	0	8	5	18	2	18	6	78
Sheepshead	353	1,668	179	1,502	313	86	63	72	157	221	251	221	5,085
Unclassified food	0	0	27	88	610	57	871	672	124	797	353	49	3,648
Unclassified scrap	79	27	0	0	1,090	431	35	118	358	1,133	1,237	14	4,522
Total finfish	10,510	4,621	727	5,999	8,444	2,596	8,037	3,197	2,234	6,280	12,333	4,216	69,195
SHELLFISH													
Shrimp (heads on)	7,367	960	0	0	424,491	556,677	320,248	1,282	2,948	2,890	0	0	1,316,863
Shrimp, brown	0	0	1,536	14,730	0	0	0	0	0	0	0	0	16,266
Shrimp, pink	0	1,189	0	0	89,347	24,488	76,738	687,629	358,385	329,843	345,408	9,977	1,923,004
Shrimp, white	7,367	2,149	1,536	14,730	513,838	581,165	396,986	688,911	361,333	332,733	345,408	9,977	3,256,133
Total shrimp	24,683	7,863	11,971	38,674	100,768	143,454	239,820	193,882	106,118	131,197	128,235	8,975	1,135,640
Crab, blue	146	59	70	106	726	976	463	0	1,201	493	313	5	4,558
Crab, stone	220,189	175,136	242,007	348,213	200,898	298,026	0	96,657	121,779	58,320	249,433	85,539	2,096,197
Oyster, Eastern	5	6	198	169	1,202	464	393	235	368	809	307	39	4,196
Squid, unclassified	252,390	185,214	255,781	401,892	817,433	1,024,085	637,662	979,685	590,798	523,553	723,696	104,535	6,496,724
Total shellfish	262,900	189,835	256,509	407,891	825,876	1,026,680	645,699	982,882	593,033	529,833	736,029	108,751	6,565,919

Table D.5. Weight (lb) of each species landed commercially from the Matagorda Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	0	4	0	0	0	0	0	0	0	4
Black drum	0	0	0	584	9	0	0	377	0	14	65	0	1,049
Florida pompano	0	0	0	4	0	0	0	0	0	0	0	0	4
Flounder, unclassified	0	0	0	209	43	0	213	157	213	789	5,359	13	6,996
Gafftopsail catfish	0	0	0	0	0	9	0	0	0	0	0	0	9
Kingfish, unclassified	0	44	0	1,214	0	0	0	0	0	0	2,901	0	4,159
Mullet, unclassified	0	0	0	0	17	0	0	0	0	0	0	0	17
Sheepshead	0	0	0	181	11	8	3	482	7	673	118	0	1,483
Total finfish	0	44	0	2,192	84	17	216	1,016	220	1,476	8,443	13	13,721
SHELLFISH													
Shrimp (heads on)	0	2,022	485	11,692	682,659	1,126,730	696,938	126,385	92,865	0	0	0	2,739,776
Shrimp, brown	0	0	722	11,039	47,916	939	2,444	152,525	199,390	353,616	204,624	19,738	992,953
Shrimp, white	0	2,022	1,207	22,731	730,575	1,127,669	699,382	278,910	292,255	353,616	204,624	19,738	3,732,729
Total shrimp	200,580	55,259	83,944	293,908	369,375	356,033	227,048	103,269	71,315	147,466	87,002	19,711	2,014,910
Crab, blue	0	0	0	352	611	1,992	2,404	3,880	296	8,208	2,640	0	20,383
Crab, stone	219,033	256,622	213,381	189,055	0	0	0	0	0	0	33,356	3,815	915,262
Oyster, Eastern	0	0	0	0	10	0	0	0	0	0	0	0	10
Squid, unclassified	419,613	313,903	298,532	506,046	1,100,571	1,485,694	928,834	386,059	363,866	509,290	327,622	43,264	6,683,294
Total shellfish	419,613	313,947	298,532	508,238	1,100,655	1,485,711	929,050	387,075	364,086	510,766	336,065	43,277	6,697,015
Grand Total	419,613	313,947	298,532	508,238	1,100,655	1,485,711	929,050	387,075	364,086	510,766	336,065	43,277	6,697,015

Table D.6. Ex-vessel value (\$) of each species landed commercially from the Matagorda Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	0	4	0	0	0	0	0	0	0	4
Black drum	0	0	0	117	9	0	0	283	0	14	42	0	465
Florida pompano	0	0	0	2	0	0	0	0	0	0	0	0	2
Flounder, unclassified	0	0	0	223	82	0	405	157	405	1,017	5,376	26	7,690
Gafftopsail catfish	0	0	0	0	0	5	0	0	0	0	0	0	5
Kingfish, unclassified	0	11	0	486	0	0	0	0	0	0	1,160	0	1,657
Mullet, unclassified	0	0	0	0	4	0	0	0	0	0	0	0	4
Sheepshead	0	0	0	36	8	4	2	121	4	177	131	0	482
Total finfish	0	11	0	863	107	9	407	560	408	1,207	6,710	26	10,309
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	0	2,422	769	27,860	427,183	807,119	807,936	179,884	200,531	0	0	0	2,453,704
Shrimp, white	0	0	1,927	30,663	45,522	2,332	7,620	253,708	436,124	616,107	186,310	26,902	1,607,215
Total shrimp	0	2,422	2,696	58,523	472,705	809,451	815,556	433,592	636,655	616,107	186,310	26,902	4,060,919
Crab, blue													
Crab, stone	99,399	31,268	46,487	168,351	177,938	160,570	78,793	36,144	32,307	69,383	39,300	11,364	951,304
Oyster, Eastern	0	0	0	227	306	996	1,223	1,940	186	4,140	1,320	0	10,338
Squid, unclassified	428,519	506,916	378,717	346,979	0	0	0	0	0	0	95,497	10,112	1,766,740
Total shellfish	527,918	540,606	427,900	574,080	650,951	971,017	895,572	471,676	669,148	689,630	322,427	48,378	6,789,303
Grand Total	527,918	540,617	427,900	574,944	651,058	971,025	895,979	472,236	669,557	690,838	329,137	48,404	6,799,612

Table D.7. Weight (lb) of each species landed commercially from the East Matagorda Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Flounder, unclassified	0	0	189	130	0	973	1,284	0	1,540	0	0	0	4,116
Kingfish, unclassified	0	0	0	0	0	403	351	0	1,241	0	0	0	1,995
Mullet, unclassified	0	0	0	0	51	0	0	0	0	0	0	0	51
Total finfish	0	0	189	130	51	1,376	1,635	0	2,781	0	0	0	6,162
SHELLFISH													
Crab, blue	22,288	18,880	41,749	80,140	42,460	32,184	9,019	0	146	0	0	0	246,866
Crab, stone	12	0	0	0	0	0	0	0	0	0	0	0	12
Oyster, Eastern	0	928	0	0	0	0	0	0	0	0	0	0	928
Squid, unclassified	0	0	391	71	0	53	0	0	0	0	0	0	515
Total shellfish	22,300	19,808	42,140	80,211	42,460	32,237	9,019	0	146	0	0	0	248,321
Grand Total	22,300	19,808	42,329	80,341	42,511	33,613	10,654	0	2,927	0	0	0	254,483

Table D.8. Ex-vessel value (\$) of each species landed commercially from the East Matagorda Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Flounder, unclassified	0	0	236	163	0	1,264	1,777	0	1,925	0	0	0	5,364
Kingfish, unclassified	0	0	0	0	0	122	140	0	496	0	0	0	758
Mullet, unclassified	0	0	0	0	20	0	0	0	0	0	0	0	20
Total finfish	0	0	236	163	20	1,385	1,917	0	2,421	0	0	0	6,143
SHELLFISH													
Crab, blue	10,274	9,440	20,136	40,070	19,511	11,940	2,388	0	102	0	0	0	113,861
Crab, stone	7	0	0	0	0	0	0	0	0	0	0	0	7
Oyster, Eastern	0	1,696	0	0	0	0	0	0	0	0	0	0	1,696
Squid, unclassified	0	0	117	21	0	13	0	0	0	0	0	0	152
Total shellfish	10,282	11,136	20,253	40,091	19,511	11,953	2,388	0	102	0	0	0	115,715
Grand Total	10,282	11,136	20,489	40,254	19,531	13,338	4,305	0	2,523	0	0	0	121,858

Table D.9. Weight (lb) of each species landed commercially from the San Antonio Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	67	0	6	0	0	313	41	0	0	0	0	0	427
Flounder, unclassified	96	216	0	488	1,388	1,546	5,736	1,752	1,215	1,473	3,250	734	17,894
Gafftopsail catfish	0	0	0	0	0	0	232	0	0	0	0	0	232
Seatrout, sand	31	0	0	0	0	0	0	0	0	0	0	0	31
Sheepshead	23	0	85	33	201	231	759	178	176	138	137	15	1,976
Total finfish	217	216	91	521	1,589	2,090	6,768	1,930	1,391	1,611	3,387	749	20,560
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	0	40	0	7,961	828,826	587,597	314,278	151,166	21,041	0	0	0	1,910,911
Shrimp, white	0	0	49	0	72	34	322	40,169	99,416	123,339	63,693	1,806	328,901
Total shrimp	0	40	49	7,961	828,898	587,631	314,600	191,335	120,457	123,339	63,693	1,806	2,239,811
Atlantic bay scallop													
Crab, blue	98,943	26,928	99,692	105,937	221,451	271,363	148,150	93,083	142,994	126,595	114,939	26,580	1,476,655
Crab, stone	0	0	0	200	464	476	0	0	0	0	0	0	1,140
Oyster, Eastern	9,363	3,903	0	385	0	0	0	0	0	0	107,818	18,375	139,844
Total shellfish	108,306	30,871	99,741	114,483	1,050,813	859,470	462,750	284,418	263,451	249,934	286,450	47,969	3,858,658
Grand Total	108,523	31,087	99,832	115,004	1,052,402	861,560	469,518	286,348	264,842	251,545	289,837	48,718	3,879,218

Table D.10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	60	0	5	0	0	232	32	0	0	0	0	0	328
Flounder, unclassified	108	265	0	636	1,943	2,164	7,404	2,554	1,701	1,915	4,550	1,028	24,269
Gafftopsail catfish	0	0	0	0	0	0	81	0	0	0	0	0	81
Seatrout, sand	20	0	0	0	0	0	0	0	0	0	0	0	20
Sheepshead	7	0	26	14	96	102	226	85	88	59	69	8	779
Total finfish	196	265	30	650	2,039	2,498	7,743	2,639	1,789	1,974	4,619	1,035	25,477
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	0	98	0	13,236	594,172	461,576	371,029	214,414	22,302	0	0	0	1,676,827
Shrimp, white	0	0	135	0	288	153	411	65,589	176,479	167,908	74,163	2,848	487,974
Total shrimp	0	98	135	13,236	594,460	461,729	371,440	280,003	198,781	167,908	74,163	2,848	2,164,801
Atlantic bay scallop													
Crab, blue	41,881	9,425	35,831	41,697	99,916	99,537	52,311	33,676	50,048	44,308	40,229	9,303	558,162
Crab, stone	0	0	0	124	376	347	0	0	0	0	0	0	847
Oyster, Eastern	19,580	8,208	0	660	0	0	0	0	0	0	276,186	50,400	355,034
Total shellfish	61,461	17,731	35,966	55,717	694,752	561,613	423,751	313,679	248,829	212,216	390,578	62,672	3,078,965
Grand Total	61,657	17,996	35,996	56,367	696,791	564,111	431,494	316,318	250,618	214,190	395,197	63,707	3,104,442

Table D.12. Ex-vessel value (\$) of each species landed commercially from the Aransas Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	310	468	150	44	25	49	8	17	277	73	41	544	2,005
Eels, cusk	5	0	0	0	0	0	0	0	0	0	0	0	5
Flounder, unclassified	402	1,027	801	187	470	1,037	6,057	2,513	3,494	4,785	4,369	379	25,520
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	2,160	0	2,160
Shark, unclassified	23	0	0	0	0	0	0	0	0	0	0	0	23
Sheepshead	0	6	3	0	0	0	10	6	5	5	13	1	48
Total finfish	739	1,500	953	231	494	1,086	6,075	2,536	3,776	4,863	6,582	924	29,760
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	1,744	0	489	55,551	454,144	445,973	416,880	188,373	26,605	0	0	0	1,589,759
Shrimp, brown & pink	2,000	0	0	231	571	81	2,922	71,907	91,100	103,296	67,290	0	337,398
Total shrimp	3,744	0	489	55,782	454,715	446,054	419,802	260,280	117,705	103,296	67,290	0	1,929,157
Crab, blue													
Crab, stone	40,650	1,658	4,601	8,231	53,132	35,447	24,416	16,044	4,841	11,494	7,703	903	209,121
Oyster, Eastern	83,448	1,342	696	1,119	5,579	4,572	8,442	14,395	32,595	6,400	9,463	8	87,092
Squid, unclassified	0	66,132	70,224	66,696	0	0	0	0	0	0	0	0	286,500
Total shellfish	128,525	69,132	76,010	131,828	513,426	486,073	452,728	290,719	154,941	121,190	84,456	911	2,511,938
Grand Total	131,264	70,632	76,964	132,059	513,920	487,160	458,804	293,255	158,717	126,052	91,038	1,835	2,541,699

Table D.14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	12,195	5,381	2,787	1,384	1,696	3,226	5,481	9,903	5,915	10,560	6,886	4,898	70,311
Florida pompano	11	0	0	0	0	0	0	0	0	0	0	0	11
Flounder, unclassified	208	64	550	156	1,624	1,272	2,221	922	155	352	3,892	446	11,863
Gafftopsail catfish	0	222	0	102	0	50	0	0	0	0	0	0	374
Greater amberjack	0	0	0	0	0	1,077	0	0	0	0	0	0	1,077
Shark, unclassified	0	0	0	0	0	0	11	0	0	0	0	0	11
Sheepshead	359	99	96	102	98	11	85	28	0	17	107	3	1,007
Total finfish	12,774	5,766	3,433	1,744	3,419	5,636	7,799	10,853	6,071	10,929	10,885	5,347	84,654
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	18,058	1,877	8,163	152,840	251,335	177,318	162,453	102,442	4,580	0	0	0	879,066
Shrimp, brown & pink	18,069	0	0	0	0	0	0	0	0	0	0	0	18,069
Shrimp, white	2,743	0	165	757	15	599	6,917	216	36,215	54,942	27,588	2,460	132,617
Total shrimp	38,870	1,877	8,328	153,597	251,350	177,917	169,370	102,658	40,795	54,942	27,588	2,460	1,029,752
Crab, blue	1,114	8,664	18,086	25,176	105,627	63,279	267	26,047	21,252	49,456	65,833	129	384,931
Crab, stone	343	284	709	2,983	4,910	4,461	1,709	1,697	796	438	907	0	19,236
Squid, unclassified	0	0	0	26	0	4	0	0	0	0	43	5	78
Total shellfish	40,327	10,825	27,123	181,782	361,887	245,661	171,346	130,402	62,843	104,836	94,371	2,594	1,433,997
Grand Total	53,101	16,591	30,556	183,526	365,306	251,410	179,145	141,255	68,914	115,765	105,256	7,941	1,518,651

Table D.16. Ex-vessel value (\$) of each species landed commercially from the Upper Laguna Madre Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	7	0	0	0	0	0	0	0	0	0	0	0	7
Black drum	24,761	35,985	55,175	13,233	10,044	35,894	14,895	30	0	1,424	200	32,994	224,635
Florida pompano	0	0	0	0	0	0	0	0	0	10	0	5	15
Flounder, unclassified	48	8	71	9	0	0	0	0	126	364	302	0	928
Sheepshead	25	8	2	1	0	0	0	0	2	262	8	4	311
Unclassified scrap	0	0	0	33	0	0	0	0	0	0	0	0	33
Total finfish	24,842	36,001	55,249	13,275	10,044	35,894	14,895	30	128	2,060	510	33,003	225,928
SHELLFISH													
Shrimp (heads on)													
Shrimp, brown	1,863	450	7,402	54,803	0	8,932	0	0	0	0	0	0	73,450
Shrimp, brown & pink	1,863	0	0	0	0	0	0	0	0	0	0	0	1,863
Total shrimp	3,726	450	7,402	54,803	0	8,932	0	0	0	0	0	0	73,313
Crab, blue	0	0	24	3,601	2,068	0	0	0	0	0	0	0	5,693
Crab, stone	0	0	100	0	0	0	0	0	0	0	0	0	100
Oyster, Eastern	0	0	720	0	0	0	0	0	0	0	0	0	720
Total shellfish	3,726	450	8,246	58,404	2,068	8,932	0	0	0	0	0	0	81,826
Grand Total	28,568	36,451	63,494	71,679	12,112	44,826	14,895	30	128	2,060	510	33,003	307,754

Table D.17. Weight (lb) of each species landed commercially from the Lower Laguna Madre Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	0	199	925	1,361	0	2,485
Atlantic croaker	3	1	504	15	270	0	0	1	28	0	134	4	960
Black drum	26,969	63,450	24,527	2,876	7,777	3,970	2,542	14,878	11,196	9,657	34,346	94,182	296,370
Flounder, unclassified	211	393	223	2,401	2,248	4,320	6,047	4,071	2,993	5,442	2,348	449	31,146
Kingfish, unclassified	0	0	0	10	0	0	0	0	0	0	0	0	10
Shark, unclassified	356	0	0	0	0	0	0	0	0	0	0	0	356
Sheepshead	581	385	0	0	0	0	0	0	0	22	0	0	988
Unclassified food	823	0	0	0	0	0	0	0	0	0	0	0	823
Total finfish	28,943	64,229	25,254	5,302	10,295	8,290	8,589	18,950	14,416	16,046	38,189	94,635	333,138
SHELLFISH													
Crab, blue	0	0	1,161	8	0	52	123	59	0	0	0	0	1,403
Oyster, Eastern	0	0	0	0	0	0	0	1,033	5,880	773	210	70	7,966
Total shellfish	0	0	1,161	8	0	52	123	1,092	5,880	773	210	70	9,369
Grand Total	28,943	64,229	26,415	5,310	10,295	8,342	8,712	20,042	20,296	93,344	38,399	94,705	342,507

Table D.18. Ex-vessel value (\$) of each species landed commercially from the Lower Laguna Madre Bay system during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	0	80	463	681	0	1,223
Atlantic croaker	1	0	101	3	54	0	0	0	8	0	27	1	195
Black drum	22,227	36,391	13,164	1,438	3,889	1,989	1,271	7,439	5,598	4,829	17,173	37,673	153,078
Flounder, unclassified	294	328	220	3,009	2,505	4,955	6,196	4,301	3,144	5,225	1,878	490	32,544
Kingfish, unclassified	0	0	0	10	0	0	0	0	0	0	0	0	10
Shark, unclassified	71	0	0	0	0	0	0	0	0	0	0	0	71
Sheepshead	145	96	0	0	0	0	0	0	0	13	0	0	255
Unclassified food	1,235	0	0	0	0	0	0	0	0	0	0	0	1,235
Total finfish	23,972	36,815	13,484	4,460	6,447	6,943	7,467	11,740	8,830	10,529	19,759	38,164	188,610
SHELLFISH													
Crab, blue	0	0	639	12	0	37	123	59	0	0	0	0	869
Oyster, Eastern	0	0	0	0	0	0	0	3,894	29,400	3,092	840	280	37,506
Total shellfish	0	0	639	12	0	37	123	3,953	29,400	3,092	840	280	38,375
Grand Total	23,972	36,815	14,123	4,472	6,447	6,980	7,590	15,693	38,230	13,621	20,599	38,444	226,985

Appendix E. Monthly commercial finfish and shellfish landings (lb)
and ex-vessel value (\$) from the Gulf of Mexico grid
zones during 1989.

Table E.1. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	0	94	0	0	94
Black drum	0	72	85	47	0	0	0	0	0	0	143	27	374
Cobia	0	0	88	36	82	212	0	0	48	9	0	0	475
Dolphin	640	313	0	0	0	132	0	0	0	0	0	0	1,085
Flounder, unclassified	1,128	133	70	519	1,308	818	5	82	760	1,613	3,001	53	9,490
Greater amberjack	0	255	220	112	103	593	0	47	0	480	0	0	1,810
Grouper, black	0	0	0	0	36	0	0	0	0	0	0	0	36
Grouper, scamp	0	0	51	0	11	0	0	0	0	0	0	0	62
Grouper, unclassified	0	0	0	0	0	48	0	0	0	0	0	0	48
Grouper, warsaw	60	0	0	0	0	2,021	0	0	0	0	0	0	2,081
Grouper, yellowedge	0	0	0	0	0	3,326	0	0	0	0	0	0	3,326
Kingfish, unclassified	10	0	588	2,379	5,587	2,649	0	1,516	5,184	4,459	1,888	0	24,260
Porgy, unclassified	0	0	0	0	0	3	0	0	0	0	0	0	3
Shark, unclassified	0	0	0	0	0	3,168	0	0	0	0	0	0	3,168
Sheepshead	0	106	375	0	0	0	0	0	0	41	300	490	1,312
Snapper, red	573	983	488	843	2,120	10,307	1,482	1,581	962	1,140	1,569	383	22,431
Snapper, unclassified	0	0	0	0	0	88	0	0	0	0	0	0	88
Snapper, vermilion	0	0	0	0	0	69	0	0	0	0	0	0	69
Swordfish	1,507	1,621	0	0	0	0	0	0	0	0	0	0	3,128
Tuna, yellowfin	68,963	14,200	0	0	0	6,200	0	0	0	0	0	0	89,363
Unclassified food	0	0	10	0	0	63	0	0	0	0	0	0	73
Wahoo	1,117	1,346	0	0	0	36	0	0	0	0	0	0	2,499
Total finfish	73,998	19,029	1,975	3,936	9,247	29,733	1,487	3,226	6,954	7,836	6,901	953	165,275
SHELLFISH													
Crab, blue	0	1,065	2,254	1,664	11,856	4,293	2,648	4,498	3,321	803	340	0	32,742
Squid, unclassified	0	0	0	355	4,771	0	0	360	261	0	0	0	5,747
Total shellfish	0	1,065	2,254	2,019	16,627	4,293	2,648	4,858	3,582	803	340	0	38,489
Grand Total	73,998	20,094	4,229	5,955	25,874	34,026	4,135	8,084	10,536	8,639	7,241	953	203,764

Table E-2. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	0	38	0	0	38
Black drum	0	72	85	47	0	0	0	0	0	0	179	14	396
Cobia	0	0	75	36	70	197	0	0	48	9	0	0	434
Dolphin	512	163	0	0	0	198	0	0	0	0	0	0	873
Flounder, unclassified	906	104	70	415	1,139	694	4	82	760	1,573	2,935	53	8,735
Greater amberjack	0	139	132	57	54	379	0	31	0	326	0	0	1,117
Grouper, black	0	0	0	0	45	0	0	0	0	0	0	0	45
Grouper, scamp	0	0	80	0	15	0	0	0	0	0	0	0	95
Grouper, unclassified	0	0	0	0	0	58	0	0	0	0	0	0	58
Grouper, warsaw	75	0	0	0	0	1,818	0	0	0	0	0	0	1,893
Grouper, yellowedge	0	0	0	0	0	4,521	0	0	0	0	0	0	4,521
Kingfish, unclassified	3	0	187	719	1,677	795	0	569	1,555	2,205	566	0	8,278
Porgy, unclassified	0	0	0	0	0	2	0	0	0	0	0	0	2
Shark, unclassified	0	0	0	0	0	1,078	0	0	0	0	0	0	1,078
Sheepshead	0	37	148	0	0	0	0	0	0	14	120	196	516
Snapper, red	1,041	1,904	955	1,855	4,640	21,559	3,282	3,440	2,053	2,502	3,440	862	47,534
Snapper, unclassified	0	0	0	0	0	176	0	0	0	0	0	0	176
Snapper, vermilion	0	0	0	0	0	97	0	0	0	0	0	0	97
Swordfish	5,244	4,474	0	0	0	0	0	0	0	0	0	0	9,718
Tuna, yellowfin	191,028	29,820	0	0	0	13,702	0	0	0	0	0	0	234,550
Unclassified food	0	0	80	0	0	882	0	0	0	0	0	0	962
Wahoo	949	973	0	0	0	46	0	0	0	0	0	0	1,969
Total finfish	199,759	37,686	1,813	3,129	7,640	46,202	3,286	4,122	4,416	6,668	7,240	1,124	323,085
SHELLFISH													
Crab, blue	0	548	1,352	792	5,899	1,982	1,312	2,024	1,654	402	170	0	16,136
Squid, unclassified	0	0	0	0	114	1,193	0	0	216	157	0	0	1,679
Total shellfish	0	548	1,352	792	6,013	3,175	1,312	2,024	1,870	559	170	0	17,815
Grand Total	199,759	38,233	3,165	3,921	13,653	49,377	4,598	6,146	6,287	7,227	7,410	1,124	340,900

Table E.3. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	192	0	192
Atlantic spadefish	0	0	0	0	0	1,400	0	0	0	0	0	0	1,400
Black drum	0	20	0	30	0	16	7	0	0	21	24	0	118
Blue runner	0	0	0	1,410	0	959	0	0	0	0	0	0	2,210
Cobia	39	13	40	262	236	781	353	83	155	15	0	0	1,977
Dolphin	0	0	0	0	25	11	187	216	124	32	0	0	595
Flounder, unclassified	90	92	315	370	608	227	304	80	82	1,713	3,850	16	7,747
Gafftopsail catfish	0	0	16	0	0	0	0	0	0	0	0	0	16
Greater amberjack	769	227	487	1,769	4,139	1,730	1,209	1,626	451	966	1,429	0	14,802
Grouper, black	0	0	0	0	0	0	330	0	0	23	0	0	353
Grouper, scamp	57	308	112	0	0	0	147	0	0	298	0	0	922
Grouper, unclassified	4,995	2,831	8,013	3,327	12,326	9,767	9,930	8,108	5,175	6,959	545	328	72,304
Grouper, warsaw	412	595	1,275	332	897	615	379	520	354	431	260	0	6,070
Grouper, yellowfin	45	0	0	0	0	0	732	2,397	753	66	6,424	0	10,417
Kingfish, unclassified	252	124	296	441	358	2	190	21	0	313	393	4	2,394
Mackerel, king	0	0	0	0	0	0	0	0	0	12	0	0	12
Mullet, unclassified	0	0	0	0	1,548	950	0	0	0	0	0	0	2,498
Porgy, unclassified	0	0	0	0	0	0	0	0	7	100	0	0	107
Shark, blacktip	36	0	0	21	0	0	0	27	0	58	0	0	142
Shark, shortfin mako	0	0	0	66	0	0	0	0	0	0	35	0	101
Shark, unclassified	0	121	0	0	25	7	88	69	596	0	0	0	906
Sheepshead	0	2,664	0	346	0	0	0	0	0	0	0	0	3,010
Snapper, red	13,437	7,012	11,998	19,661	11,087	17,071	19,466	30,180	7,469	6,262	11,021	1,434	155,598
Snapper, unclassified	0	19	0	0	0	159	162	78	0	13	26	0	457
Snapper, vermilion	1,512	1,093	300	813	2,748	3,082	1,987	1,775	862	2,028	588	0	16,788
Tilefish	13,289	13,700	17,574	6,538	9,044	7,285	13,914	12,284	8,829	11,076	6,113	324	119,970
Triggerfish, gray	0	54	98	64	288	755	154	133	146	150	290	0	2,132
Tuna, blackfin	0	0	0	0	66	0	16	116	11	0	0	0	209
Tuna, little	0	0	0	900	0	0	0	0	0	0	0	0	900
Tuna, unclassified	0	84	0	0	736	57	92	0	0	28	47	0	1,044
Tuna, Atlantic bonito	0	0	0	0	0	150	0	0	0	0	0	0	150
Unclassified food	112	71	1,519	31	1,610	69	768	123	412	584	257	0	5,556
Unclassified scrap	0	0	0	0	0	0	0	0	0	48	0	0	48
Wahoo	0	0	0	31	105	25	0	223	0	0	0	0	384
Total finfish	35,045	29,028	42,043	36,412	45,846	45,118	50,415	58,059	25,426	31,196	31,694	2,106	432,188
SHELLFISH													
Crab, blue	156	0	38	0	96	114	0	0	0	0	0	0	404
Squid, unclassified	0	0	0	0	0	0	0	0	25	6	0	21	52
Total shellfish	156	0	38	0	96	114	0	0	25	6	0	21	456
Grand Total	35,201	29,028	42,081	36,412	45,942	45,232	50,415	58,059	25,451	31,202	31,694	2,127	432,644

Table E.4. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	38	0	38
Atlantic spadefish	0	0	0	0	0	770	0	0	0	0	0	0	770
Black drum	0	13	0	8	0	4	6	0	0	12	14	0	56
Blue runner	0	0	0	353	0	758	0	0	0	0	0	0	833
Cobia	23	10	40	262	205	603	331	86	108	15	0	0	1,682
Dolphin	0	0	0	0	25	11	192	215	91	32	0	0	565
Flounder, unclassified	90	92	355	431	616	271	313	97	96	2,141	4,285	20	8,808
Gafftopsail catfish	0	0	4	0	0	0	0	0	0	0	0	0	4
Greater amberjack	414	139	317	1,086	2,542	1,053	721	1,011	308	817	831	0	9,238
Grouper, black	0	0	0	0	0	0	330	0	0	44	0	0	374
Grouper, scamp	103	539	218	0	0	0	284	0	0	596	0	0	1,740
Grouper, unclassified	8,493	4,843	15,567	5,998	19,137	15,260	16,255	13,848	9,352	12,178	764	656	122,353
Grouper, warsaw	522	745	1,537	372	932	658	458	572	443	506	237	0	6,982
Grouper, yellowfin	81	0	0	0	0	0	1,171	4,195	1,318	125	11,242	0	18,132
Kingfish, unclassified	76	31	89	150	125	1	74	7	0	78	113	1	746
Mackerel, king	0	0	0	0	0	0	0	0	0	18	0	0	18
Mullet, unclassified	0	0	0	0	155	190	0	0	0	0	0	0	345
Porgy, unclassified	0	0	0	0	0	0	0	0	7	95	0	0	102
Shark, blacktip	14	0	0	13	0	0	0	16	0	35	0	0	78
Shark, shortfin mako	0	0	0	43	0	0	0	0	0	0	23	0	66
Shark, unclassified	0	54	0	0	11	4	53	17	270	0	0	0	410
Sheepshead	0	666	0	87	0	0	0	0	0	0	0	0	753
Snapper, red	34,852	17,373	28,555	48,053	25,817	40,769	45,882	68,468	19,236	15,043	25,184	3,872	371,780
Snapper, unclassified	0	31	0	0	0	278	284	136	0	20	46	0	794
Snapper, vermilion	2,574	1,881	525	1,211	3,737	4,234	2,543	2,254	1,293	3,351	800	0	24,404
Tilefish	13,289	13,700	22,846	9,153	10,602	7,731	17,360	15,659	11,473	14,329	7,631	405	143,977
Triggerfish, gray	0	54	39	49	184	521	92	114	139	115	241	0	1,548
Tuna, blackfin	0	0	0	0	44	0	14	74	11	0	0	0	143
Tuna, little	0	0	0	1,350	0	0	0	0	0	0	0	0	1,350
Tuna, unclassified	0	126	0	0	404	86	37	0	0	14	28	0	694
Tuna, Atlantic bonito	0	0	0	0	0	75	0	0	0	0	0	0	75
Unclassified food	45	21	544	8	1,202	24	236	34	124	179	75	0	2,492
Unclassified scrap	0	0	0	0	0	0	0	0	0	5	0	0	5
Wahoo	0	0	0	31	99	31	0	236	0	0	0	0	397
Total finfish	60,575	40,319	70,636	68,656	65,838	73,333	86,637	106,841	44,267	49,747	51,551	4,954	723,355
SHELLFISH													
Crab, blue	94	0	17	0	19	34	0	0	0	0	0	0	164
Squid, unclassified	0	0	0	0	0	0	0	0	11	2	0	11	24
Total shellfish	94	0	17	0	19	34	0	0	11	2	0	11	188
Grand Total	60,669	40,319	70,653	68,656	65,857	73,367	86,637	106,841	44,278	49,749	51,551	4,965	723,543

Table E.5. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	301	0	52	41	1,550	13	3	23	15	3	13	8	2,022
Bluefish	0	0	0	22	0	0	0	0	0	0	0	0	22
Cobia	489	265	322	36	1,194	434	1,426	838	592	72	56	0	5,724
Codfish, unclassified	0	0	0	0	0	0	0	0	0	23	0	0	23
Dolphin	0	94	0	0	0	149	170	549	129	119	12	0	1,222
Eels, cusk	7	0	0	53	0	0	0	0	0	0	0	0	60
Florida pompano	0	0	0	0	0	0	0	0	0	18	3	0	21
Flounder, unclassified	1,073	986	691	647	1,912	655	1,139	2,782	951	5,163	9,837	4,604	30,440
Gafftopsail catfish	0	0	0	25	23	0	0	0	0	0	0	0	48
Greater amberjack	1,466	1,329	1,198	1,254	18,663	635	1,257	2,343	1,925	2,116	188	0	32,374
Grouper, black	30	0	0	0	0	0	0	0	0	0	0	0	30
Grouper, scamp	80	503	970	1,290	0	50	271	93	261	0	101	0	3,619
Grouper, unclassified	308	1,304	3,233	1,641	832	255	1,111	182	6,370	485	54	21	15,796
Grouper, warsaw	1,242	1,388	818	1,666	1,258	30	231	5,062	11,125	0	130	0	22,950
Grouper, yellowedge	114	0	1,991	5,999	5,612	0	0	1,316	27,441	0	0	0	42,473
Grouper, yellowfin	0	2,546	0	0	0	0	0	13,533	0	0	0	0	16,079
Grouper, Nassau	0	0	0	201	0	0	0	0	0	0	0	0	201
Kingfish, unclassified	0	369	443	732	6,426	506	3,656	4,311	4,217	6,210	2,846	1,679	31,395
Kingfish, Southern	144	0	0	108	251	0	0	0	0	0	0	0	503
Mackerel, Spanish	0	0	0	0	0	0	5	10	0	0	0	0	15
Mullet, unclassified	0	0	0	0	202	0	0	0	0	0	0	0	202
Others, unknown	0	0	0	0	0	0	3	6	1,531	0	0	0	1,540
Seatrout, sand	0	0	0	0	148	87	0	0	28	273	183	0	719
Shark, blacktip	214	0	0	637	31	0	0	0	0	0	0	0	882
Shark, shortfin mako	31	0	0	0	0	0	0	0	0	0	0	0	31
Shark, unclassified	0	280	1,426	43	1,766	283	1,190	822	388	133	60	0	6,391
Sheepshead	85	131	352	64	196	0	0	9	0	0	116	29	982
Snapper, red	7,127	3,891	15,310	8,455	5,017	1,243	6,782	19,309	1,380	5,814	2,034	771	77,133
Snapper, unclassified	21	1,076	1	10,015	1,872	1,588	1,043	799	8,368	0	0	0	24,783
Snapper, vermilion	992	958	2,371	3,157	720	505	1,846	1,070	1,627	1,095	171	0	14,512
Swordfish	71	0	0	0	0	0	0	0	0	0	0	0	71
Tilefish	90	23	112	820	173	0	0	1,521	5,013	0	0	0	7,752
Triggerfish, gray	0	0	35	103	333	0	0	87	302	277	193	0	1,330
Tuna, little	0	0	0	0	0	0	0	79	0	0	0	0	79
Tuna, unclassified	0	0	0	0	0	0	104	135	0	774	0	0	1,013
Tuna, yellowfin	295	6,795	0	0	0	0	0	0	0	0	0	0	7,090
Unclassified food	38	0	23	38	82	0	0	94	71	0	0	0	346
Wahoo	0	1,011	0	0	0	0	0	0	38	0	0	0	1,049
Total finfish	14,218	22,949	29,348	37,047	48,261	6,433	20,237	54,973	71,772	22,575	15,997	7,112	350,922

Table E.5. (Continued).

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
SHELLFISH													
Crab, blue	0	0	50	0	0	0	0	1,807	0	0	0	0	1,857
Crab, stone	0	0	0	0	352	476	0	760	0	0	0	0	1,588
Lobster, shovelnose	0	0	0	0	0	0	0	0	27	0	0	0	27
Squid, unclassified	95	195	160	136	319	324	372	0	7	85	328	0	2,021
Total shellfish	95	195	210	136	671	800	372	2,567	34	85	328	0	5,493
Grand Total	14,313	23,144	29,558	37,183	48,932	7,233	20,609	57,540	71,806	22,660	16,325	7,112	356,415

Table E.6. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic cutlassfish	0	0	0	0	0	0	0	0	1,010	0	0	0	1,010
Black drum	54	0	18	9	1,442	3	1	17	13	2	2	2	1,564
Bluefish	0	0	0	11	0	0	0	0	0	0	0	0	11
Cobia	467	186	225	25	979	361	1,265	813	592	95	62	0	5,070
Codfish, unclassified	0	0	0	0	0	0	0	0	0	21	0	0	21
Dolphin	0	49	0	0	0	186	178	560	161	117	11	0	1,262
Eels, cusk	6	0	0	45	0	0	0	0	0	0	0	0	51
Florida pompano	0	0	0	0	0	0	0	0	0	5	1	0	6
Flounder, unclassified	1,202	1,095	751	699	2,367	797	1,281	3,501	1,056	5,798	11,813	6,148	36,508
Gafftopsail catfish	0	0	0	63	20	0	0	0	0	0	0	0	83
Greater amberjack	881	872	868	770	18,590	427	867	1,726	3,086	2,060	188	0	30,337
Grouper, black	47	0	0	0	0	0	0	0	0	0	0	0	47
Grouper, scamp	151	755	1,593	2,335	0	108	603	207	480	0	202	0	6,433
Grouper, unclassified	321	1,998	5,068	2,690	1,097	418	1,600	261	8,664	606	46	17	22,788
Grouper, warsaw	1,355	1,539	964	1,792	1,314	27	245	5,001	10,357	0	195	0	22,789
Grouper, yellowedge	155	0	3,126	8,575	6,300	0	0	1,908	37,484	0	0	0	57,547
Grouper, yellowfin	0	3,997	0	0	0	0	0	18,405	0	0	0	0	22,402
Grouper, Nassau	0	0	0	297	0	0	0	0	0	0	0	0	297
Kingfish, unclassified	0	111	138	218	2,593	253	1,282	1,699	1,687	2,352	951	672	11,955
Kingfish, Southern	43	0	0	28	65	0	0	0	0	0	0	0	137
Mackerel, Spanish	0	0	0	0	0	0	2	8	0	0	0	0	10
Mullet, unclassified	0	0	0	0	30	0	0	0	0	0	0	0	30
Porgy, unclassified	0	0	0	0	0	0	1	2	0	0	0	0	3
Seatrout, sand	0	0	0	0	59	35	0	0	11	137	55	0	297
Shark, blacktip	71	0	0	347	19	0	0	0	0	0	0	0	437
Shark, shortfin mako	32	0	0	0	0	0	0	0	0	0	0	0	32
Shark, unclassified	0	133	559	25	783	71	397	297	163	28	0	0	2,492
Sheepshead	26	39	77	32	39	0	0	4	0	0	30	9	255
Snapper, red	14,252	7,464	32,335	18,592	10,021	1,975	13,605	38,006	2,679	12,129	3,678	1,123	155,859
Snapper, unclassified	29	2,198	1	20,507	4,698	4,263	1,809	1,052	17,740	0	0	0	52,297
Snapper, vermilion	1,537	1,246	3,091	5,363	724	794	3,117	2,124	2,673	1,940	274	0	22,882
Swordfish	155	0	0	0	0	0	0	0	0	0	0	0	155
Tilefish	115	23	131	1,186	147	0	0	1,886	6,768	0	0	0	10,255
Triggerfish, gray	0	0	25	89	326	0	0	44	151	139	97	0	870
Tuna, little	0	0	0	0	0	0	0	89	0	0	0	0	89
Tuna, unclassified	0	0	0	0	0	0	40	68	0	229	0	0	336
Tuna, yellowfin	429	14,270	0	0	0	0	0	0	0	0	0	0	14,698
Unclassified food	28	0	16	269	1,230	0	0	808	751	0	0	0	3,101
Wahoo	0	708	0	0	0	0	0	0	32	0	0	0	740
Total finfish	21,357	36,683	48,987	63,965	52,844	9,718	26,291	78,487	95,560	25,657	17,640	7,970	485,158

Table E.6. (Continued).

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
SHELLFISH													
Crab, blue	0	0	13	0	0	0	0	1,090	0	0	0	0	1,102
Crab, stone	0	0	0	0	218	295	0	471	0	0	0	0	985
Lobster, shovelnose	0	0	0	0	0	0	0	0	88	0	0	0	88
Squid, unclassified	24	49	40	34	117	81	93	0	7	21	82	0	548
Total shellfish	24	49	53	34	335	376	93	1,561	95	21	82	0	2,723
Grand Total	21,381	36,732	49,040	63,999	53,179	10,094	26,384	80,048	95,655	25,678	17,722	7,970	487,881

Table E.7. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic cutlassfish	0	0	0	0	0	0	0	0	84	0	0	0	84
Black drum	370	0	0	0	0	14	0	459	0	105	494	0	1,442
Cobia	60	135	10	0	0	0	2,685	608	0	172	137	286	4,093
Dolphin	0	0	0	0	0	37	198	233	0	0	0	0	468
Eels, cusk	0	46	0	0	49	167	76	0	0	0	0	0	338
Florida pompano	0	0	0	0	0	0	493	0	0	0	0	0	493
Flounder, unclassified	588	139	0	0	0	1,402	2,584	1,172	63	23	16	1,122	7,109
Great barracuda	0	0	0	0	0	0	0	53	0	0	0	0	53
Greater amberjack	3,287	1,939	4,763	152	271	108	7,806	15,240	15	6,294	4,760	1,490	46,125
Grouper, black	0	79	0	0	0	0	0	0	0	0	0	0	79
Grouper, jewfish	0	0	0	0	87	0	0	0	0	0	0	0	87
Grouper, unclassified	1,222	1,250	197	0	5,132	12,749	21,462	186	0	560	189	0	42,947
Grouper, warsaw	0	3,816	166	92	1,633	2,971	6,483	299	0	0	0	0	15,460
Grouper, yellowedge	0	4,681	52	0	0	0	0	0	0	0	0	0	4,733
Kingfish, unclassified	0	0	75	0	0	0	0	0	0	0	0	0	75
Mackerel, king	0	0	0	0	0	0	63	81	127	0	0	0	271
Mullet, unclassified	0	0	0	0	0	0	0	0	0	432	12,626	9,953	23,011
Shark, blacktip	0	0	0	0	25	245	0	0	0	0	0	0	270
Shark, shortfin mako	0	0	0	0	0	0	219	0	0	0	0	0	219
Shark, unclassified	137	2,151	0	20	1,346	7	2,502	40	0	0	0	480	6,683
Sheepshead	0	0	0	0	0	0	24	15	0	0	0	0	39
Snapper, red	8,324	17,493	1,339	8,966	7,435	1,156	13,121	2,106	21	904	1,213	2,943	65,967
Snapper, unclassified	165	101	0	0	110	49	28	0	0	0	0	0	453
Snapper, vermilion	0	453	0	25	0	0	0	10	0	67	0	0	555
Swordfish	0	0	0	0	0	0	384	0	0	0	0	0	384
Tilefish	1,432	304	0	0	0	8,615	5,562	0	0	0	0	0	15,913
Tuna, unclassified	0	0	0	0	0	252	223	0	0	0	0	0	475
Unclassified food	20	36	0	0	7	0	104	0	0	195	0	0	362
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	17	0	17
Wahoo	0	0	0	0	0	0	29	0	0	0	0	0	29
Total finfish	15,605	32,623	6,602	9,255	16,095	28,718	64,046	20,502	310	8,752	19,452	16,274	238,234
SHELLFISH													
Crab, blue	0	0	0	0	0	0	0	85	0	175	162	0	422
Crab, stone	0	0	0	0	0	0	0	132	0	0	0	0	132
Squid, unclassified	62	0	0	0	37	0	0	21	9	172	10	0	311
Total shellfish	62	0	0	0	37	0	0	238	9	347	172	0	865
Grand Total	15,667	32,623	6,602	9,255	16,132	28,718	64,046	20,740	319	9,099	19,624	16,274	239,099

Table E.8. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Atlantic cutlassfish	0	0	0	0	0	0	0	0	48	0	0	0	48
Black drum	359	0	0	0	0	17	0	564	0	147	692	0	1,778
Cobia	47	94	8	0	0	0	2,730	496	0	172	110	229	3,886
Dolphin	0	0	0	0	0	47	152	152	0	0	0	0	350
Eels, cusk	0	30	0	0	26	80	46	0	0	0	0	0	182
Florida pompano	0	0	0	0	0	0	1,045	0	0	0	0	0	1,045
Flounder, unclassified	398	78	0	0	0	1,092	2,082	1,230	110	40	28	842	5,901
Great barracuda	0	0	0	0	0	0	0	90	0	0	0	0	90
Greater amberjack	3,549	1,523	5,419	114	192	96	7,453	14,292	17	6,887	5,236	3,340	48,118
Grouper, black	0	122	0	0	0	0	0	0	0	0	0	0	122
Grouper, jewfish	0	0	0	0	174	0	0	0	0	0	0	0	174
Grouper, unclassified	1,757	1,637	202	0	7,186	21,675	33,583	240	0	812	331	0	67,422
Grouper, warsaw	0	4,508	154	78	1,911	2,733	5,954	329	0	0	0	0	15,668
Grouper, yellowedge	0	7,349	82	0	0	0	0	0	0	0	0	0	7,431
Kingfish, unclassified	0	0	19	0	0	0	0	0	0	0	0	0	19
Mackerel, king	0	0	0	0	0	0	169	160	38	0	0	0	368
Mullet, unclassified	0	0	0	0	0	0	0	0	0	65	3,172	1,194	4,431
Shark, blacktip	0	0	0	0	50	372	0	0	0	0	0	0	422
Shark, shortfin mako	0	0	0	0	0	0	219	0	0	0	0	0	219
Shark, unclassified	70	979	0	8	565	4	1,208	75	0	0	0	192	3,101
Sheepshead	0	0	0	0	0	0	11	8	0	0	0	0	19
Snapper, red	16,541	36,699	3,560	19,007	16,571	3,981	25,299	3,728	45	1,822	2,706	7,652	137,608
Snapper, unclassified	211	172	0	0	143	88	35	0	0	0	0	0	649
Snapper, vermilion	0	589	0	21	0	0	0	13	0	71	0	0	694
Swordfish	0	0	0	0	0	0	1,536	0	0	0	0	0	1,536
Tuna, unclassified	1,962	345	0	0	0	13,784	7,944	0	0	0	0	0	24,035
Unclassified food	33	24	0	0	0	663	285	0	0	39	0	0	948
Unclassified scrap	0	0	0	0	5	0	1,069	0	0	0	0	0	1,170
Wahoo	0	0	0	0	0	0	0	0	0	0	17	0	17
Total finfish	24,928	54,149	9,443	19,228	26,823	44,632	90,848	21,376	258	10,055	12,291	13,448	327,478
SHELLFISH													
Crab, blue	0	0	0	0	0	0	0	43	0	123	113	0	278
Crab, stone	0	0	0	0	0	0	0	82	0	0	0	0	82
Squid, unclassified	16	0	0	0	33	0	0	21	8	155	9	0	242
Total shellfish	16	0	0	0	33	0	0	145	8	277	122	0	602
Grand Total	24,943	54,149	9,443	19,228	26,856	44,632	90,848	21,521	266	10,332	12,413	13,448	328,080

Table E.9. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	0	0	0	0	0	0	0	22	0	97	0	0	119
Cobia	0	0	0	165	13	29	237	55	75	149	0	0	723
Dolphin	0	0	0	280	278	321	703	441	863	1,665	1,743	0	6,294
Eels, cusk	0	46	0	0	0	0	0	0	0	0	0	0	46
Florida pompano	0	0	0	0	0	0	0	0	0	50	21	4	75
Flounder, unclassified	90	5	15	65	21	0	0	62	79	184	0	14	535
Great barracuda	0	0	0	0	0	0	0	0	68	0	0	0	68
Greater amberjack	2,075	1,121	2,139	3,164	3,910	936	2,907	5,535	3,931	2,129	1,721	1,565	31,133
Grouper, black	0	0	0	0	0	0	0	248	0	0	0	0	248
Grouper, scamp	116	139	591	681	273	200	296	540	166	242	73	88	3,405
Grouper, unclassified	657	2,581	5,710	2,417	1,819	1,032	2,565	2,152	1,337	629	376	173	21,448
Grouper, warsaw	2,281	626	2,425	2,132	1,932	329	3,931	2,514	1,635	1,180	1,022	388	20,395
Kingfish, unclassified	0	0	0	10	0	0	0	0	0	0	0	0	10
Porgy unclassified	0	0	0	0	0	0	100	99	10	11	0	4	224
Shark, shortfin mako	0	0	0	0	0	0	181	0	0	0	0	0	181
Shark, unclassified	86	463	922	458	1,471	288	1,825	1,133	290	1,275	423	435	9,069
Sheepshead	45	5,184	59	27	3	31	166	890	876	889	1,272	890	10,332
Snapper, red	30,067	17,174	15,379	15,196	8,508	12,195	13,642	12,001	6,746	6,196	6,287	9,899	153,290
Snapper, unclassified	474	0	8,676	6,411	0	0	3,921	6,869	1,002	6,191	166	0	33,710
Snapper, vermilion	673	401	840	1,038	908	1,890	5,840	5,424	1,789	1,697	1,078	1,078	22,656
Swordfish	0	825	0	99	0	198	1,889	1,318	1,373	1,615	1,722	0	9,039
Tilefish	0	0	42	188	57	0	0	0	8	0	0	4	299
Triggerfish, gray	21	9	0	19	104	11	25	35	56	971	21	0	1,272
Tuna, blackfin	0	0	0	0	0	0	0	0	313	0	0	0	313
Tuna, unclassified	0	1,605	0	71	3,921	6,247	16,955	0	406	1,225	1,232	0	31,662
Tuna, yellowfin	92	0	0	0	0	172	0	43	0	0	0	0	307
Unclassified food	0	167	9	47	149	6	706	0	18	0	0	84	1,186
Unclassified scrap	0	0	0	11	0	0	0	0	0	0	0	0	11
Wahoo	0	0	0	0	133	156	313	248	366	246	91	0	1,553
Total finfish	36,677	30,346	36,807	32,479	23,500	24,041	56,202	39,629	21,407	26,641	17,248	14,626	359,603
SHELLFISH													
Crab, blue	234	40	19	8	0	0	0	0	71	0	0	0	372
Squid, unclassified	0	0	0	0	349	0	0	5,089	2,665	1,022	34	786	9,945
Total shellfish	234	40	19	8	346	0	0	5,089	2,736	1,022	34	786	10,317
Grand Total	36,911	30,386	36,826	32,487	23,849	24,041	56,202	44,718	24,143	27,663	17,282	15,412	369,920

Table E.10. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1989.

Species	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
FINFISH													
Black drum	0	0	0	0	0	0	0	20	0	59	0	0	79
Cobia	0	0	0	129	5	28	178	41	56	115	0	0	551
Dolphin	0	0	0	196	274	320	821	394	863	2,081	2,179	0	7,128
Eels, cusk	0	35	0	0	0	0	0	0	0	0	0	0	35
Florida pompano	0	0	0	0	0	0	0	0	0	50	21	4	75
Flounder, unclassified	96	7	15	98	37	0	0	110	119	271	0	21	772
Great barracuda	0	0	0	0	0	0	0	0	41	0	0	0	41
Greater amberjack	1,439	858	1,578	2,104	2,183	490	1,625	3,690	2,658	1,481	879	783	19,766
Grouper, black	0	0	0	0	0	0	0	248	0	0	0	0	248
Grouper, scamp	58	70	296	353	137	100	148	270	83	121	66	79	1,779
Grouper, unclassified	750	3,842	8,470	3,540	2,875	1,202	2,581	2,818	1,366	841	420	138	28,843
Grouper, warsaw	1,299	411	1,574	1,356	1,319	223	2,340	1,508	849	750	559	310	12,497
Kingfish, unclassified	0	0	0	10	0	0	0	0	0	0	0	0	10
Porgy, unclassified	0	0	0	0	0	0	40	20	4	4	0	1	69
Shark, shortfin mako	0	0	0	0	0	0	226	0	0	0	0	0	226
Shark, unclassified	52	109	184	92	294	61	466	229	58	282	85	87	1,999
Sheepshead	9	1,037	12	5	1	6	33	178	175	178	254	178	2,066
Snapper, red	57,982	36,267	29,445	25,559	16,026	21,950	20,463	18,002	10,197	9,319	9,431	14,849	269,486
Snapper, unclassified	782	0	18,653	13,731	0	0	10,067	13,792	2,131	15,967	415	0	75,539
Snapper, vermilion	606	482	878	934	1,070	2,311	5,975	5,968	1,763	2,188	1,031	970	24,175
Swordfish	0	3,053	0	269	0	495	6,612	4,284	3,776	5,653	6,888	0	31,028
Tilefish	0	0	42	235	71	0	0	0	2	0	0	1	351
Triggerfish, gray	4	2	0	4	31	2	5	7	11	243	6	0	315
Tuna, blackfin	0	0	0	0	0	0	0	0	704	0	0	0	704
Tuna, unclassified	0	3,852	0	124	3,921	6,450	26,046	0	305	1,531	1,672	0	43,901
Tuna, yellowfin	147	0	0	0	0	155	0	39	0	0	0	0	340
Unclassified food	0	58	16	9	42	5	706	0	9	0	0	46	892
Unclassified scrap	0	0	0	3	0	0	0	0	0	0	0	0	3
Wahoo	0	0	0	0	133	156	391	248	366	308	114	0	1,716
Total finfish	63,224	50,080	61,161	48,750	28,420	33,953	78,722	51,864	25,534	41,439	24,018	17,468	524,634
SHELLFISH													
Crab, blue	234	40	19	12	0	0	0	0	71	0	0	0	376
Squid, unclassified	0	0	0	0	87	0	0	763	400	171	3	118	1,543
Total shellfish	234	40	19	12	87	0	0	763	471	171	3	118	1,918
Grand Total	63,458	50,120	61,180	48,762	28,507	33,953	78,722	52,627	26,005	41,611	24,022	17,586	526,552

Table E.11. Weight (lb) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1989.

Month	Brown and Pink	White	Other ^a	Total
January	1,773,425	204,039	256,900	2,234,364
February	660,636	261,283	779,936	1,701,855
March	397,501	226,985	1,391,956	2,016,441
April	447,393	353,421	734,257	1,535,072
May	1,527,623	540,426	264,187	2,332,236
June	1,928,862	304,657	3,392	2,236,862
July	12,729,034	612,952	632	13,342,618
August	13,707,170	548,553	3,793	14,259,515
September	7,365,737	927,182	103,225	8,396,144
October	4,061,608	1,333,942	96,755	5,492,306
November	4,400,958	1,189,559	102,029	5,692,546
December	3,200,930	544,013	70,550	3,815,492
Total	52,200,876	7,047,011	3,807,611	63,055,499

^a Other shrimp include Squilla empusa, Sicyonia brevirostris, Hymenopenaeus robustus, and Xiphopeneus kroyeri.

Table E.12. Ex-vessel value (\$) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1989.

Month	Brown and Pink	White	Other ^a	Total
January	5,889,270	466,102	153,354	6,508,726
February	2,271,923	492,815	519,895	3,284,633
March	1,354,795	479,110	757,814	2,591,719
April	1,358,260	1,045,714	292,339	2,696,313
May	2,857,169	1,862,486	131,482	4,851,137
June	2,485,933	1,076,422	1,291	3,563,646
July	23,003,005	2,439,509	277	25,442,791
August	28,102,098	1,605,534	2,405	29,710,037
September	15,766,223	2,281,840	47,481	18,095,544
October	10,053,034	2,684,848	46,105	12,783,987
November	10,894,409	2,161,316	40,716	13,096,441
December	7,488,768	935,972	25,038	8,449,778
Total	111,524,887	17,531,668	2,018,197	131,074,752

^a Other shrimp include Squilla empusa, Sicyonia brevirostris, Hymenopenaeus robustus,

Appendix F. Weight (lb) and ex-vessel value (\$) of menhaden caught off Texas but landed commercially in Louisiana during 1977-1989.

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 1977-1989. 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
1989	95,700.0	4,785.0

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 1977-1989.

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 1977-1989. 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
1989	43	2,322.0	729.5	1,812.8

Table G.2. Total weight (lb x 1000) of Eastern oyster meat transplanted to private oyster leases in Texas bay systems during 1978^a-1989. Data based on weekly oyster transplant reports submitted to TPWD by oyster leaseholders.

Year	Months												Total
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	
1978	0.0	0.0	0.0	0.0	378.0	35.0	0.0	353.5	245.0	0.0	0.0	0.0	1,011.5
1979	0.0	0.0	0.0	0.0	582.8	0.0	0.0	271.3	24.5	0.0	0.0	0.0	878.5
1980	0.0	0.0	0.0	0.0	355.3	61.3	0.0	141.8	0.0	0.0	0.0	0.0	558.3
1981	0.0	0.0	0.0	0.0	656.3	124.3	0.0	185.5	318.5	0.0	0.0	0.0	1,284.5
1982	0.0	0.0	0.0	0.0	372.8	7.0	0.0	435.8	21.0	0.0	0.0	0.0	836.5
1983	0.0	0.0	0.0	0.0	871.5	432.3	0.0	493.5	236.3	0.0	0.0	0.0	2,033.5
1984	0.0	0.0	0.0	341.3	484.8	0.0	0.0	761.3	283.5	0.0	0.0	0.0	1,870.8
1985	0.0	0.0	0.0	0.0	693.0	448.0	273.0	502.3	99.8	0.0	0.0	0.0	2,016.0
1986	0.0	0.0	0.0	0.0	1,436.9	402.3	530.5	530.4	442.0	123.3	0.0	0.0	3,465.4
1987	0.0	0.0	0.0	0.0	1,025.6	338.4	340.7	251.6	189.4	146.3	0.0	0.0	2,292.1
1988	0.0	0.0	0.0	0.0	1,424.3	360.8	0.0	80.5	73.9	4.9	0.0	0.0	1,944.5
1989	0.0	0.0	0.0	0.0	639.1	127.3	0.0	116.3	145.9	174.2	0.0	0.0	1,203.8

^a 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^a-1989. Data based on monthly oyster harvest reports submitted to TPWD by oyster leaseholders.

Year	Months												Total
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	
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	0.0	0.0	6.2	0.0	0.0	14.1	9.9	5.6	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	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	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	0.0	502.3
1983	0.0	25.4	35.6	82.4	120.9	198.9	164.6	65.1	64.5	88.8	11.2	6.9	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	543.8
1985	5.4	0.0	0.0	6.8	42.4	84.1	83.0	58.4	40.3	65.0	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	1,486.1
1987	0.0	110.6	64.5	91.2	167.3	256.8	159.2	120.8	62.4	65.9	54.4	11.3	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	774.3
1989	31.1	65.5	87.6	75.2	92.1	139.2	0.0	60.4	68.6	81.3	1.9	14.4	717.3

^a Data prior to 1978 not available.

Appendix H. Number of commercial licenses sold in Texas in each
fiscal year (September-August) from 1956-1989.

Table H.1. Number of commercial dealer licenses sold in Texas in each fiscal year from 1956 through 1989^a. Prior to 1972 license sales occurred when monies were received in Austin. Since 1972, actual sales by license year, regardless of when the sales were processed are used.

Fiscal Year	Retail Fish ^b			Retail fish truck	Retail oyster	Bait	Wholesale fish	Wholesale fish truck	Shrimp house operator	Bait shrimp	Menhaden fish plant
	Large	Medium	Small								
1956	2,675	1,444	3,888	75	0	3,936	157	96	0	0	0
1957	2,691	1,425	3,841	80	0	3,533	155	88	0	0	0
1958	2,792	1,376	3,639	84	0	4,391	142	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	3,445	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	3,758	1,543	3,420	96	0	3,113	219	52	33	439	1
1973	3,692	1,523	3,323	122	0	2,921	219	65	33	430	1
1974	3,721	1,478	2,801	167	0	2,456	251	54	27	417	0
1975	3,630	1,413	2,706	437	0	2,675	250	57	26	417	0
1976	3,513	1,450	2,717	489	0	2,998	241	53	27	423	0
1977	3,005	1,331	2,704	601	0	3,020	260	67	25	422	0
1978	2,920	1,301	2,719	786	0	2,991	259	77	27	419	0
1979	2,817	1,212	2,667	605	0	2,877	255	60	28	449	0
1980	2,449	1,124	2,460	544	0	2,853	265	44	30	476	0
1981	2,482	1,156	2,371	895	0	2,776	254	53	27	500	0
1982	2,256	1,144	2,244	1,287	0	2,828	307	82	29	520	0
1983	2,202	1,120	2,259	1,185	0	2,895	329	102	34	543	0
1984 ^c	5,122			900	0	2,600	325	67	28	484	0
1985	4,994			1,026	0	2,638	327	79	26	488	0
1986	4,560			1,005	0	2,751	361	84	28	510	0
1987	4,397			844	0	2,733	398	94	29	505	0
1988	3,989			776	0	2,756	447	99	30	527	0
1989	3,800			759	0	2,712	448	86	26	532	0

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

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

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

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

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

Table H.2. Number of commercial saltwater fishermen licenses sold in Texas in each fiscal year from 1956 through 1989. Prior to 1972 license sales occurred when monies were received in Austin. Since 1972, actual sales by license year, regardless of when the sales were processed are used.

Fiscal Year	Tidal water	Red drum	General				Finfish			
			Resident ^a		Non- ^b		Resident	Non- ^b resident	Menhaden only	Import
			Fisherman	Vessel	Fisherman	Vessel				
1956			10,382							
1957			10,072							
1958			15,554							
1959			16,538							
1960			18,695							
1961			23,634							
1962			23,497							
1963			27,617							
1964			28,586							
1965			27,428							
1966			28,461							
1967			30,902							
1968			25,278							
1969			27,757							
1970			31,642							
1971			34,268							
1972			36,431							
1973			38,539							
1974			32,454							
1975			27,386							
1976			26,641							
1977			27,359							
1978		541	28,425							
1979	32,823	605	4,379							
1980		636	19,660	0	2,291	1,989	46	558		
1981		635	14,205	2,632	3,581	1,678	444	80		
1982			13,427	2,691	3,870	632	16	0	336	
1983			13,591	2,797	4,775	670	31	0	281	
1984			12,357	2,535	5,503	452	11	0	205	
1985			11,244	2,498	5,352	466	28	0	187	
1986			10,803	2,288	1,742	486	46	0	221	
1987			10,885	2,204	1,725	479	24	0	179	
1988			10,429	2,172	1,348	596	20	0	155	
1989			9,036	2,078	1,309	506	54	0	121	

^a Until 1979 there were no divisions in the general Commercial Fishing Licenses.
^b Total sales regardless of fee per license which depends on state of residency of purchaser.

Table H.3. Number of commercial fishing gear licenses sold in Texas in each fiscal year from 1956 through 1989. Prior to 1972 license sales occurred when monies were received in Austin. Since 1972, actual sales by license year, regardless of when the sales were processed are used. Total non-resident licenses are within parentheses.

Fiscal year	Saltwater trotline tags	Seine tags	Commercial oyster dredge ^a	Mussel dredge permit (power)
1956		10,832	150	0
1957		10,107	129	0
1958		9,414	30	0
1959		10,467	230	0
1960		11,089	258	0
1961		12,869	374	0
1962		11,269	249	0
1963		12,207	408	0
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	16,211	13,820	195	0
1973	18,499	15,356	126	0
1974	22,570	17,319	99	0
1975	17,391	16,617	40	0
1976	18,100	17,277	16	0
1977	18,493	16,045	72	0
1978	14,488	14,738	59	0
1979	16,371	17,312	58	2
1980	16,866	13,971	52	8
1981	17,947	9,510	109	1
1982	16,702	8,096	103	2
1983	15,943	8,498	169	0
1984	9,323	6,325	265	1
1985	7,818	7,164	127	1
1986	8,318	7,184	116	0
1987	8,849	6,528	185	2
1988	9,841	7,264	784 (73)	0
1989	9,538	2,859	941 (76)	3

^a Commercial oyster 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 1989^a. Prior to 1972 license sales occurred when monies were received in Austin. Since 1972, actual sales by license year, regardless of when the sales were processed are used. Total non-resident licenses are within parentheses.

Fiscal year	Fishing boat	Fishing Boat (menhaden only)	Gulf shrimp	Bay shrimp	Bay-bait shrimp boat	Bait shrimp boat	Duplicate commercial shrimp boat plates
1956	1,392	39	0	0	0	0	0
1957	1,535	36	0	0	0	0	0
1958	2,466	36	0	0	0	0	0
1959	2,657	47	125	0	0	0	0
1960	2,280	21	1,755	0	1,846	0	0
1961	1,616	24	1,947	0	2,506	0	0
1962	1,396	24	1,655	0	2,456	0	0
1963	1,314	13	1,636	24	3,328	0	0
1964	1,380	17	1,958	1,849		1,196	0
1965	1,236	26	1,958	2,217		1,321	0
1966	1,147	22	1,947	1,969		1,460	0
1967	1,029	27	2,140	1,760		1,752	0
1968	997	39	2,437	1,953		632	0
1969	978	37	2,624	2,457		768	0
1970	1,066	36	2,871	3,218		881	0
1971	1,086	31	2,900	3,743		966	0
1972	1,320	42	3,239	4,040		1,261	0
1973	1,354	54	3,393	3,985		1,372	0
1974	1,456	45	3,225	3,793		1,625	0
1975	1,278	53	2,714	3,234		1,341	0
1976	1,388	50	2,571	2,827		1,404	0
1977	1,586	36	2,886	3,233		1,449	0
1978	1,379	18	3,168	3,765		1,521	0
1979	1,755	22	3,363	4,444		1,751	53
1980	1,504	13	3,311	4,467		2,026	46
1981	1,254	12	3,738	5,215		2,218	58
1982	787	38	4,027	4,477		2,277	69
1983	1,095	41	4,139	4,771		2,724	73
1984	1,100	36	3,824	4,724		2,837	50
1985	917	26	3,630	4,456		2,713	68
1986	947	25	2,946	3,660		2,445	46
1987	1,042	26	3,083	3,340		2,454	34
1988	1,233 (68)	25	2,427 (540)	3,037 (6)		2,376 (2)	30 (3)
1989	1,181 (71)	22	2,233 (508)	2,779 (7)		2,135 (4)	41 (1)

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

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