

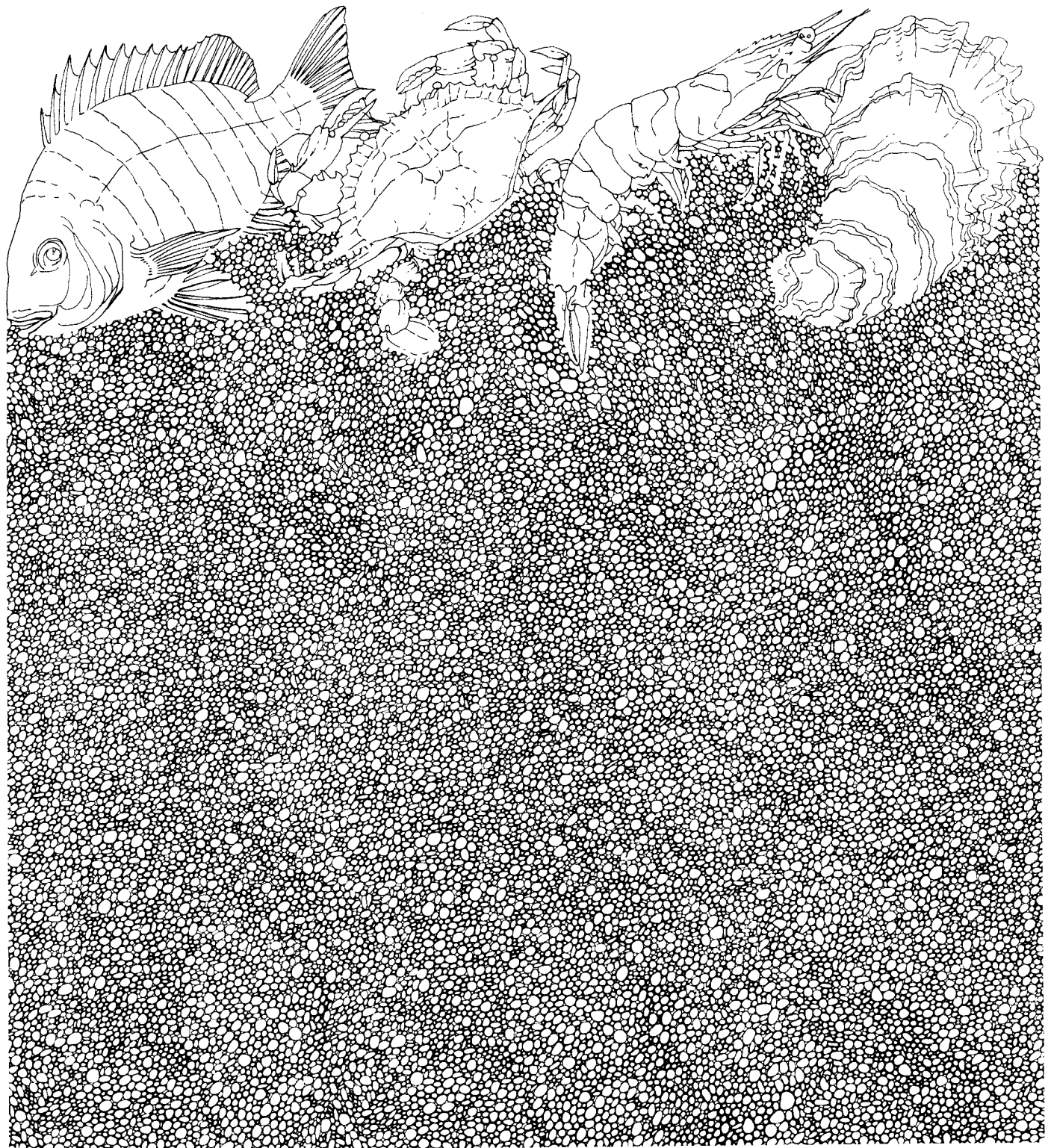
Mark Hammel

TEXAS COMMERCIAL HARVEST STATISTICS, 1979-80

by C.L. Hamilton

Management Data Series Number 26
1981

Texas Parks & Wildlife Department
Coastal Fisheries Branch



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TEXAS COMMERCIAL HARVEST STATISTICS,
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ABSTRACT

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

Based on the Monthly Marine Products Report (MMPR) the total finfish and shellfish bay and Gulf of México landings combined decreased 12,304,700 lb and \$34,189,700 in value from 1978-79 to 1979-80. A substantial decrease in landings was reported for red drum, Sciaenops ocellata (76,200 lb); spotted seatrout, Cynosion nebulosus (277,100 lb); black drum, Pogonias cromis (540,400 lb); snapper, including Lutjanus campechanus, L. griesus and Rhomboplites aurorubens (140,000 lb); brown and pink shrimp, Penaeus aztecus and P. duorarum (9,024,100 lb) and white shrimp, P. setiferus (5,652,700 lb). Substantial increases were reported for flounder, Paralichthys lethostigma and P. albigutta (20,700 lb); sheepshead, Archosargus probatocephalus (123,700 lb); blue crab, Callinectes sapidus (2,464,800 lb); oyster meat, Crassostrea virginica (124,800 lb) and "other" shrimp, including Hymenopenaeus robustus, Xiphopenaeus kroyeri and Sicyonia brevirostris (819,100 lb).

INTRODUCTION

The Texas Parks and Wildlife Department (TPWD) in cooperation with the National Marine Fisheries Service (NMFS) conducts a continuing program to collect data on finfishes and shellfishes landed in Texas by commercial fishermen mainly from Texas bays and from Texas territorial waters of the Gulf of Mexico (≤ 16.7 km into the Gulf) (Figure 1). The information is computer processed by the TPWD Data Processing Section in Austin, Texas and is incorporated into the publication Texas Landings. Copies are furnished to NMFS in Washington, D.C.; NMFS, Division of Statistics-Market News in Galveston, Texas and offices of TPWD.

During September 1979-August 1980 two reporting systems for commercially harvested seafood existed: 1) the Monthly Marine Products Report (MMPR) and 2) the Individual Sales Transaction (IST). Examples of these forms are found in Figures 2 and 3. Only those landings reported on the MMPR are published in Texas Landings.

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

MATERIALS AND METHODS

Personnel from the Division of Statistics-Market News, NMFS collected shrimp landings data. TPWD personnel collected landings data on finfish, crabs and oysters. Each dealer was required to complete an MMPR listing the total weight of each species (Table 1) purchased from fishermen each month. Each dealer was also required to complete an IST at the time of each purchase of finfish from fishermen. The fishermen were required to complete an IST if finfish were sold to anyone other than a licensed dealer.

All MMPR's and/or IST's must be submitted to TPWD on or before the 10th day of each month; both reports cover the preceding month's transactions. MMPR must include landings of finfish, crabs and oysters as well as the shrimp landings that are not collected by NMFS personnel. The shrimp landings reported on MMPR were submitted by TPWD to the Division of Statistics-Market News, NMFS.

Each MMPR and IST was checked by TPWD personnel for completeness. Finfish were converted from "gutted and gilled" weights to "guts and gills in" weights using conversions listed in Appendix A. Blue crab landings

were converted to live weight. Oyster landings were converted to meat weight. Heads-off shrimp weights were converted to heads-on shrimp weights.

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

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

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

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

RESULTS

Monthly Marine Product Reports

From 1978-79 to 1979-80 total finfish and shellfish landings combined decreased 12,304,700 lb (13.5%) and \$34,189,700 (19.8%) in value (Table 2). The total finfish landings decreased 1,032,300 lb (20.6%) and \$109,900 (3.9%) in value; total shellfish landings decreased 11,272,300 lb (13.1%) and \$34,079,800 (20.0%) in value.

Brown shrimp, pink shrimp and white shrimp constituted 90% of all shellfish landings in 1978-79 and 84% in 1979-80. From 1978-79 to 1979-80 blue crab landings increased 2,464,800 lb (33.9%) and \$565,600 (28.5%) in value; oyster meat increased 124,800 lb (10.8%) and \$499,200 (34.8%) in value; brown and pink shrimp landings decreased 9,024,100 lb (16.0%) and \$25,318,000 (20.3%) in value; white shrimp landings decreased 5,652,700 lb (26.8%) and \$10,308,500 (24.6%) in value and "Other" shrimp-including royal red shrimp, seabob and rock shrimp increased 819,100 lb (461.5%) and \$482,800 (1027.2%) in value.

Red drum, spotted seatrout and black drum constituted 73% of all finfish landings in 1978-79 and 69% in 1979-80. From 1978-79 to 1979-80 landings of red drum decreased 76,200 lb (9.2%) but increased \$127,800 (19.9%) in value; spotted seatrout decreased 277,100 lb (24.0%) and \$71,800 (7.6%) in value; black drum decreased 540,400 lb (32.6%) and \$64,800 (10.5%) in value; flounder increased 20,700 lb (10.2%) and \$31,900 (20.2%) in value; sheepshead increased 123,200 lb (31.6%) and \$22,900 (47.0%) in value and snapper decreased 140,000 lb (49.0%) and \$132,900 (38.6%) in value.

The mean price/lb paid to commercial fishermen increased for all species from 1978-79 to 1979-80 except for blue crabs, the price of which decreased from \$0.27 to \$0.26/lb and brown and pink shrimp, the price of which decreased from \$2.18 to \$2.12/lb. (Table 3). Of the finfish species the snapper price increase of \$0.24/lb was highest followed by black drum, spotted seatrout and red drum with a \$0.12-0.19/lb increase and sheepshead, "other" finfishes and flounder with a \$0.02-0.08/lb increase. The price paid for oyster meats increased \$0.27/lb; the price paid for white shrimp increased \$0.03/lb and the price paid for "other" shrimp increased \$0.31/lb.

Monthly summaries of the weight and value of landings in Texas are presented in Appendices B-E.

Total bay shellfish landings from 1975-76 to 1979-80 increased from 21,074,600 lb to 25,719,500 lb (Table 4); Gulf of Mexico landings decreased from 62,910,100 lb to 49,170,700 lb (Table 5). The largest increases in bay landings were reported for brown and pink shrimp (3,197,200 lb) and blue crabs (2,763,100 lb); the largest decrease in Gulf landings was reported for brown and pink shrimp (12,834,900 lb). Oyster bay landings decreased 1,309,700 lb during this 5-yr period.

From 1975-76 to 1979-80 total bay finfish landings decreased from 6,111,600 lb to 3,627,800 lb (Table 4); Gulf of Mexico landings decreased

from 1,933,900 to 343,100 lb (Table 5). The largest decreases in bay landings were reported for red drum (1,203,700 lb), black drum (789,600 lb) and spotted seatrout (566,600 lb); the largest decreases in Gulf landings were reported for snapper (414,600 lb), spotted seatrout (297,500 lb) and flounder (175,500 lb). Only bay sheepshead landings increased (236,700 lb) during this 5-yr period.

According to IST data, total red drum landings from the bays and Gulf of Mexico increased from 633,610 lb in quota year 1977-78 to 806,291 lb in quota year 1978-79 then decreased to 745,686 lb in quota year 1979-80 (Table 6). A quota year extends from October of one calendar year through September of the next calendar year. Landings reported in 1979-80 were higher than those reported in 1977-78 for all bay areas except Galveston, Matagorda and San Antonio Bays.

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

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

Table 1. (Cont'd).

Common name	Scientific name ^a
Snapper	
Red snapper	<u>Lutjanus campechanus</u>
Vermilion snapper	<u>Rhomboplites aurorubens</u>
Lane snapper	<u>Lutjanus synagris</u>
Mackerel	
Spanish mackerel	<u>Scomberomorus maculatus</u>
King mackerel	<u>Scomberomorus cavalla</u>
Tuna	
Blackfin tuna	<u>Thunnus atlanticus</u>
Bluefin tuna	<u>Thunnus thynnus</u>
Yellowfin tuna	<u>Thunnus albacares</u>
Swordfish	<u>Xiphias gladius</u>
Sharks	
Blacktip Shark	<u>Carcharhinus limbatus</u>
Atlantic sharpnose Shark	<u>Rhizoprionodon terraenovae</u>
Bull Shark	<u>Carcharhinus leucas</u>
Mako Shark	<u>Isurus oxyrinchus</u>
Hammerhead Shark	<u>Sphyrna mokarran</u>

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

Table 2. Texas commercial finfish and shellfish landings (lb x 1000) and value (\$ x 1000) during fiscal years 1978-79 and 1979-80 (September-August). Data based on MMPR.

Species	1978-79		1979-80		% change	
	Weight	Value	Weight	Value	Weight	Value
Red drum	825.3	641.4	749.1	769.2	-	19.9
Spotted seatrout	1,161.8	948.5	884.7	876.7	-	7.6
Black drum	1,659.6	617.0	1,119.2	552.2	-	10.5
Flounder	203.5	157.6	224.2	189.5	+	20.2
Sheepshead	389.2	48.7	512.4	71.6	+	47.0
Snapper	285.5	344.6	145.5	211.7	-	38.6
Other finfish	478.3	88.2	290.8	65.3	-	26.0
Total finfish	5,003.2	2,846.0	3,970.9	2,736.1	-	3.9
Blue crabs	7,264.4	1,986.1	9,729.2	2,551.7	+	28.5
Oyster meat	1,154.5	1,434.1	1,279.3	1,933.3	+	34.8
Shrimp (heads on)						
Brown and pink	56,474.9	124,809.4	47,450.8	99,491.4	-	20.3
White	21,087.0	41,850.5	15,434.3	31,542.0	-	24.6
Other shrimp	177.5	47.0	996.6	529.8	+	1,027.2
Squid	4.2	0.9	0	0	-	100.0
Total shellfish	86,162.5	170,128.0	74,890.2	136,048.2	-	20.0
Grand total	91,165.8	172,974.0	78,861.1	138,784.3	-	19.8

Table 3. Price (\$/lb) paid commercial fishermen for finfishes and shellfishes during fiscal years 1978-79 and 1979-80 (September-August). Data based on MMPR.

Species	1978-79		1979-80	
	Range	Mean	Range	Mean
Red drum	0.50-1.35	0.78	0.60-1.40	0.97
Spotted seatrout	0.50-1.20	0.82	0.45-1.40	0.99
Black drum	0.30-0.65	0.37	0.35-0.85	0.49
Flounder	0.40-1.30	0.77	0.60-1.40	0.85
Sheepshead	0.05-0.35	0.12	0.40-0.40	0.14
Snapper	0.85-1.65	1.21	0.65-1.95	1.45
Other finfish	0.05-0.65	0.21	0.03-0.40	0.26
Blue crabs	0.17-0.35	0.27	0.17-0.45	0.26
Oyster meat	1.01-1.25	1.23	1.19-1.65	1.50
Shrimp (heads-on):				
Brown and pink	0.65-3.25	2.18	0.61-2.98	2.12
White	0.90-2.95	2.01	0.73-3.18	2.04
Other shrimp	0.20-0.26	0.24	0.29-2.75	0.55

Note: When not reported on MMPR, prices are calculated using information provided by personal contact with seafood dealers.

Table 4. Commercial finfish and shellfish landings (lb x 1000) and value (\$ x 1000) from Texas bays during fiscal years 1975-76, 1976-77, 1977-78, 1978-79 and 1979-80 (September-August). Data based on MMPR.

Species	1975-76		1976-77		1977-78		1978-79		1979-80	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	1,986.9	699.7	1,231.1	627.2	764.8	480.9	813.5	632.5	783.2	758.8
Spotted seatrout	1,388.7	609.6	1,146.5	646.1	1,051.3	647.5	1,043.4	847.7	822.1	815.5
Black drum	1,903.0	457.0	1,749.1	532.8	1,622.1	525.9	1,633.7	608.3	1,113.4	550.5
Flounder	223.6	94.0	211.3	120.3	241.1	144.4	173.5	140.7	197.6	170.6
Sheepshead	265.0	86.0	343.1	37.0	279.4	32.6	370.5	45.6	501.7	69.7
Other finfish	344.4	50.5	336.9	50.5	223.4	41.0	341.3	72.1	209.8	39.7
Total finfish	6,111.6	1,996.8	5,018.0	2,013.9	4,182.1	1,872.3	4,375.9	2,346.9	3,627.8	2,404.8
Blue crabs	6,962.9	1,142.8	6,895.7	1,727.2	8,047.0	2,038.4	7,263.8	1,985.9	9,726.0	2,551.0
Oyster meat	2,589.0	1,975.7	3,485.9	3,422.2	1,021.8	1,231.4	1,154.5	1,434.1	1,279.3	1,933.3
Shrimp (heads- on):										
Brown and pink	4,467.3	1,750.7	4,738.1	2,840.3	5,067.0	1,889.5	6,980.5	5,841.1	7,664.5	6,574.8
White	7,055.4	6,139.7	6,269.6	5,819.4	9,085.4	8,472.6	9,055.6	12,519.1	7,049.7	9,892.5
Other shrimp	0	0	0	0	1.6	0.3	0	0	0	0
Total shellfish	21,074.6	11,008.9	21,389.3	13,809.1	23,222.8	13,632.2	24,454.4	21,780.2	25,719.5	20,951.6
Grand total	27,186.2	13,005.7	26,407.3	15,823.0	27,404.9	15,504.5	28,830.3	24,127.1	29,347.3	23,356.4

Table 5. Commercial finfish and shellfish landings (lb x 1000) and value (\$ x 1000) caught in the Gulf of Mexico and landed in Texas waters during fiscal years 1975-76, 1976-77, 1977-78, 1978-79 and 1979-80 (September-August). Data based on WMPR.

Species	1975-76		1976-77		1977-78		1978-79		1979-80	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	96.3	38.7	118.1	53.3	14.8	8.0	11.8	8.8	10.9	10.4
Spotted seatrout	360.1	159.2	137.8	69.0	45.6	29.4	118.4	100.8	62.6	61.2
Black drum	83.9	15.8	72.7	12.6	39.4	8.1	25.9	8.6	5.8	1.7
Flounder	202.1	67.9	163.5	55.2	52.3	29.5	30.0	16.9	26.6	18.9
Sheepshead	48.2	6.4	42.3	6.3	19.6	3.4	18.7	3.1	10.6	1.9
Snapper	560.1	379.6	432.1	390.9	426.1	403.4	285.5	344.6	145.5	211.7
Other finfish	583.2	77.0	231.2	40.4	223.6	44.2	137.0	16.3	81.1	25.5
Total finfish	1,933.9	744.6	1,197.7	627.7	821.4	526.0	627.3	499.1	343.1	331.3
Blue crabs	20.0	2.7	6.4	1.2	7.2	1.3	0.6	0.2	3.2	0.7
Shrimp (heads-on):										
Brown and pink	52,621.2	86,205.7	63,280.3	98,893.2	62,312.5	92,761.8	49,494.4	118,968.3	39,786.3	92,916.7
White	9,338.5	15,952.9	6,089.9	10,775.8	12,022.7	19,207.1	12,031.4	29,331.4	8,384.6	21,649.5
Other shrimp	929.5	175.1	264.2	238.8	305.6	339.3	177.5	47.0	996.6	529.7
Squid	0	0	0	0	0	0	4.2	0.9	0	0
Total shellfish	62,910.1	102,336.4	69,640.8	109,909.0	74,648.0	112,309.5	61,708.1	148,347.8	49,170.7	115,096.6
Grand total	68,844.0	103,081.0	70,838.5	110,536.7	75,469.4	112,835.5	62,335.4	148,846.9	49,513.8	115,427.9

Table 6. Texas commercial red drum landings (lb) by bay system during 1977-78, 1978-79 and 1979-80 (October-September). Data based on IST.

Fiscal Year	Bay System										Un-known Area	Total
	Sabine Lake	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Gulf of Mexico			
1977-78	0	17,772	37,160	53,552	90,609	77,195	55,579	301,743	0	0	633,610	
1978-79	1,196	21,143	29,185	40,165	98,380	67,728	86,671	451,672	9,170	981	806,291	
1979-80	837	6,212	21,887	45,715	109,138	79,013	115,241	348,250	12,339	7,054	745,686	

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

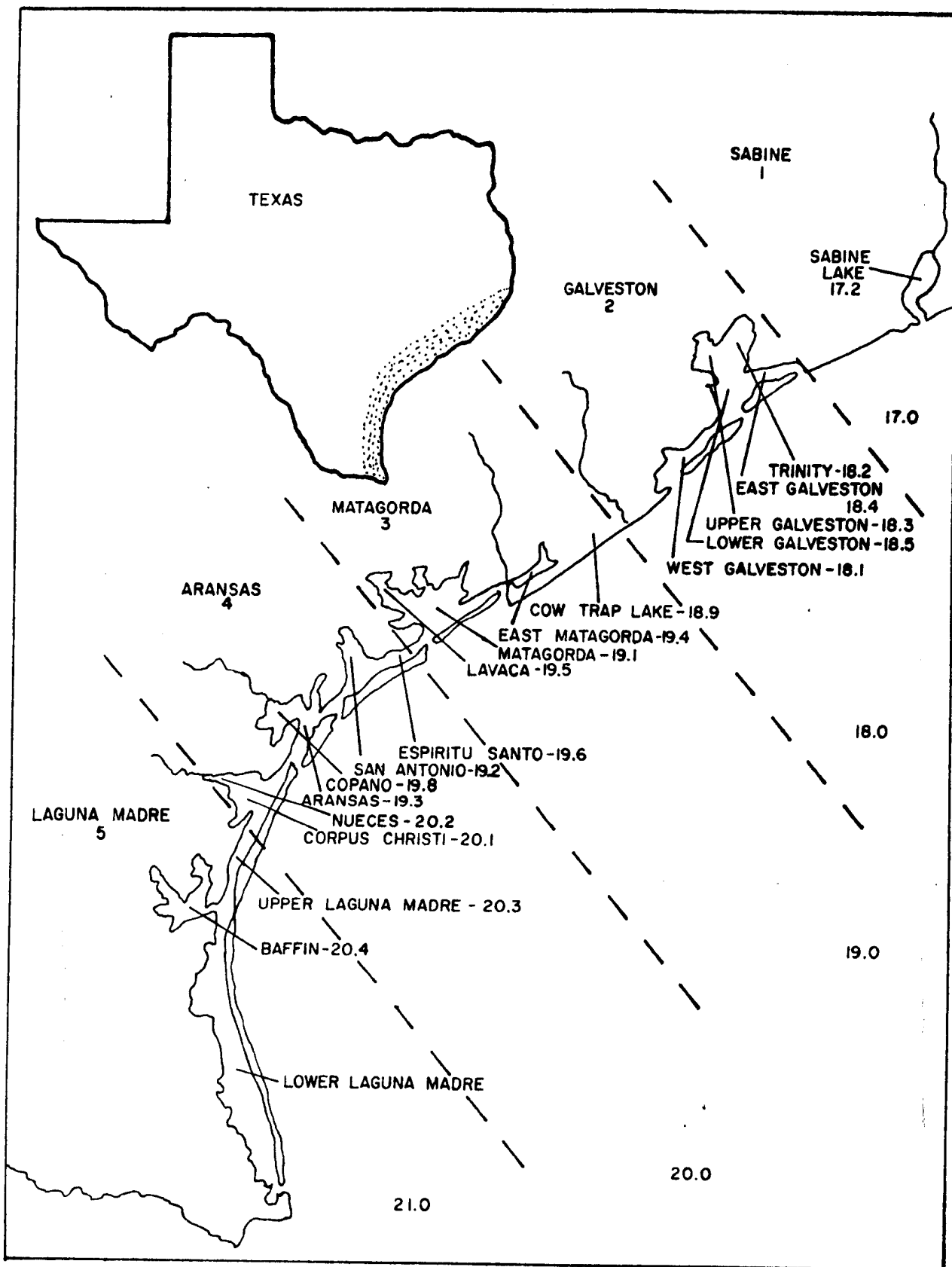


Figure 2. Example of Marine Monthly Products Report (MMPR) form.

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

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

INDIVIDUAL SALES TRANSACTION

			DATE OF SALE
MONTH	DAY	YEAR	

1	- 9001
FORM NO.	

--

FISHERMAN'S NAME _____ BUSINESS NAME _____

					RED DRUM LICENSE NO.
--	--	--	--	--	-------------------------

					COMMERCIAL LICENSE NO.
--	--	--	--	--	---------------------------

BAY OR GULF WHERE FISH WERE TAKEN:

BAY OR GULF WHERE FISH WERE TAKEN:																						
SABINE	GALVESTON	MATAGORDA	SAN ANTONIO	ARANSAS	CORPUS CHRISTI	UPPER LAGUNA MADRE	LOWER LAGUNA MADRE	GULF OF MEXICO														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21	22	23	24	25

- GEAR USED:
- | | | | |
|----------------|---------------|-----------------|------------------|
| 1 TROTLINE | 5 SEINE | 9 GIG | 13 CRAB TRAWL |
| 2 TRAMMEL NET | 6 SNAGLINE | 10 SHRIMP TRAWL | 14 OYSTER DREDGE |
| 3 GILL NET | 7 LONGLINE | 11 FISH TRAWL | 15 OYSTER TONGS |
| 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
			\$	CENTS		
OYSTERS IN SACKS	81					
OYSTERS IN BUSHELS	82					
OYSTERS IN GALLONS	83					

Appendix A. Conversion factors for finfish and shellfishes.

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

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

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

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

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

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

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

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

Appendix B. Total monthly commercial finfish and shellfish landings (lb) from each bay system during September 1979-August 1980. Data based on MMRP.

Table 1. Total monthly commercial finfish and shellfish landings (lb) from Sabine Lake during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	24	150	0	0	0	23	117	222	337	215	31	31	1,150
Spotted seatrout	0	0	0	0	0	115	0	0	0	0	11	0	126
Black drum	0	556	0	0	0	12	0	0	0	0	0	0	568
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	14	11	0	0	0	0	0	0	37	15	26	0	103
Whiting	0	29	0	0	0	59	00	0	122	19	40	0	269
Atlantic croaker	9	0	0	0	0	0	0	0	0	0	12	112	133
Gafftopsail catfish	9	0	0	0	0	0	0	0	0	0	0	0	9
Sheepshead	0	647	0	0	0	353	0	0	114	47	0	0	1,161
Mullet	20	0	0	0	0	5	0	0	0	0	0	0	25
Pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	200	0	0	0	0	0	0	0	0	0	20	220
Total finfish	76	1,593	0	0	0	567	117	222	610	296	120	163	3,764
Blue crabs	18,211	810	0	0	0	720	6,422	518	14,382	21,169	13,415	6,888	82,535
Oyster meat	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp (heads-on)													
Brown and pink	0	0	0	0	0	0	0	0	0	0	0	827	827
White	0	0	0	0	0	0	0	0	0	0	0	3,357	3,357
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	18,211	810	0	0	0	720	6,422	0	14,382	21,169	13,415	11,072	86,719
Grand total	18,287	2,403	0	0	0	1,287	6,539	740	14,992	21,465	13,535	11,235	90,483

Table 2. Total monthly commercial finfish and shellfish landings (lb) from the Galveston Bay system during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	315	267	1,404	862	154	659	555	287	1,663	222	1,035	273	7,696
Spotted seatrout	2,843	6,162	10,328	5,590	3,495	10,421	3,446	9,673	26,928	1,724	9,781	1,640	92,031
Black drum	6,738	5,845	7,520	2,324	1,707	3,083	2,144	12,705	13,297	4,773	1,674	3,270	65,080
Sand seatrout	0	0	591	189	187	402	0	0	0	0	0	151	1,520
Flounder	2,641	8,683	24,873	869	949	475	530	2,385	3,466	488	1,230	1,843	48,432
Whiting	1,174	1,496	2,354	1,229	632	288	673	500	1,586	540	1,064	221	11,757
Atlantic croaker	1,898	1,006	82	1,065	55	326	21	376	671	601	519	1,301	7,921
Gafftopsail catfish	874	3,842	38	0	0	0	1,267	5,667	26,971	26	173	20	38,878
Sheepshead	1,916	4,587	1,383	823	3,045	999	6,640	5,903	14,825	3,660	2,099	8,284	54,164
Mullet	80	0	71	0	0	365	58	71	446	0	0	5	1,096
Pompano	0	1	0	0	0	0	0	0	0	0	0	0	1
Unclassified food	15,230	1,303	1,257	269	322	786	654	2,385	596	780	471	8,938	32,991
Unclassified scrap	577	3,843	4,907	192	0	0	50	1,778	11,965	8,210	8,487	6,711	46,720
Total finfish	34,286	37,035	54,808	13,412	10,546	17,804	16,038	41,730	102,414	21,024	26,533	32,657	408,287
Blue crabs	254,838	202,713	135,155	6,708	39,095	63,879	85,448	63,963	230,260	187,697	218,777	187,163	1,675,696
Oyster meat	0	0	0	40,737	45,446	88,771	169,149	61,207	41,288	70,752	92,562	42,559	652,471
Shrimp (heads-on)													
Brown and pink	13,412	690	0	0	0	0	0	0	127,217	1,173,090	686,226	319,960	2,320,595
White	171,407	424,754	600,780	185,980	0	2,279	4,013	20,445	74,871	33,733	19,586	748,707	2,286,555
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	439,657	628,157	735,935	233,425	84,541	154,929	258,610	145,615	473,636	1,465,272	1,017,151	1,298,389	6,935,317
Grand total	473,943	665,192	790,743	246,837	95,087	172,733	274,648	187,345	576,050	1,486,296	1,043,684	1,331,046	7,343,604

Table 3. Total monthly commercial finfish and shellfish landings (lb) from the Matagorda Bay system during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	234	591	1,961	1,584	591	1,147	4,968	1,286	1,808	347	193	500	15,210
Spotted seatrout	0	1,211	1,601	776	2,845	5,670	3,500	3,505	1,888	233	70	162	21,461
Black drum	0	796	174	128	1,043	844	2,829	1,050	425	74	176	234	7,773
Sand seatrout	0	0	0	9	0	0	0	0	0	0	0	0	9
Flounder	431	29	1,291	11	0	0	18	55	25	19	53	402	2,334
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	1,162	0	0	59	176	1,885	158	13	0	0	3,453
Mullet	0	105	0	0	0	0	0	0	0	0	0	0	105
Pompano	0	0	0	0	0	0	0	0	24	0	0	0	24
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Total finfish	665	2,732	6,189	2,508	4,479	7,720	11,491	7,805	4,304	686	492	1,298	50,369
Blue crabs	54,879	71,351	27,033	5,873	17,664	21,592	30,424	47,844	55,853	28,950	106,486	31,979	499,928
Oyster meat	0	0	0	19,179	72,094	87,255	84,944	41,981	0	0	0	0	305,453
Shrimp (heads-on)													
Brown and pink	202,376	0	0	0	0	0	0	771	457,477	1,234,339	337,386	937	2,233,286
White	394,696	611,047	480,142	126,739	0	0	21	18,777	82,416	65,498	3,656	233,915	2,016,907
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Squid	14	0	0	0	0	0	0	0	0	0	0	0	14
Total shellfish	651,965	682,398	507,175	151,791	89,758	108,847	115,389	109,373	595,746	1,328,787	447,528	266,831	5,055,588
Grand total	652,630	685,130	513,364	154,299	94,237	116,567	126,880	117,178	600,050	1,329,473	448,020	268,129	5,105,957

Table 4. Total monthly commercial finfish and shellfish landings (lb) from East Matagorda bay during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	1,590	1,405	1,001	970	1,793	216	506	323	456	191	991	9,442
Spotted seatrout	0	4,712	1,141	1,338	4,409	1,301	478	2,428	3,554	2,244	886	778	23,269
Black drum	0	909	188	328	999	692	413	105	26	266	131	115	4,172
White trout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	0	32	28	8	0	0	25	39	12	23	32	17	216
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet	0	0	0	0	0	0	81	0	0	372	34	0	487
Pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Total finfish	0	7,243	2,762	2,675	6,378	3,786	1,213	3,078	3,915	3,361	1,274	1,901	37,586
Blue crabs	11,430	0	0	46,984	56,163	45,130	6,022	0	29,481	51,625	0	023,534	270,369
Oyster meat	0	0	0	875	0	0	0	2,722	0	0	0	0	3,597
Shrimp (heads-on)													
Brown and pink	0	0	0	0	0	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	11,430	0	0	47,859	56,163	45,130	6,022	2,722	29,481	51,625	0	23,534	273,966
Grand total	11,430	7,243	2,762	50,534	62,541	48,916	7,235	5,800	33,396	54,986	1,274	25,435	311,552

Table 5. Total monthly commercial finfish and shellfish landings (lb) from the San Antonio bay system during September 1979-August 1980. Data based on MPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	3,750	736	4,778	4,236	1,888	689	1,392	1,581	2,785	2,992	1,436	11,760	38,023
Spotted seatrout	1,070	1,207	1,006	2,272	3,389	1,427	2,775	5,005	3,629	2,205	0	431	24,416
Black drum	680	67	547	601	640	408	129	0	828	1,148	50	2,251	7,349
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	178	0	2,203	353	55	99	102	349	317	942	1,398	210	6,206
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	49	0	0	0	0	0	0	49
Sheepshead	242	471	226	353	0	673	0	234	354	956	19	449	3,977
Mullet	0	0	0	0	0	0	0	0	0	0	0	0	0
Pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	680	0	0	0	0	0	0	0	89	769
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Total finfish	5,920	2,481	8,760	8,495	5,972	3,345	4,398	7,169	7,913	8,243	2,903	15,190	80,789
Blue crabs	267,787	336,249	133,795	263,985	243,372	179,648	256,862	202,378	365,606	392,623	280,668	235,255	3,158,228
Oyster meat	0	0	0	10,814	15,481	17,528	155,565	75,926	0	0	0	0	275,314
Shrimp (heads-on)													
Brown and pink	0	5,000	0	0	0	0	0	1,894	273,041	415,318	189,455	14,998	899,706
White	216,651	197,994	188,169	27,073	0	0	100	0	10,946	437	877	179,944	822,191
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	484,438	539,243	321,964	301,872	258,853	197,176	412,527	280,198	649,593	808,378	471,000	430,197	5,155,439
Grand total	490,358	541,724	330,724	310,367	264,825	200,521	416,925	287,367	657,506	816,621	473,903	445,387	5,236,228

Table 6. Total monthly commercial finfish and shellfish landings (lb) from the Arkansas bay system during September 1979-August 1980. Data based on MPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	2,097	9,867	11,076	5,934	4,847	4,200	4,966	5,979	11,077	16,712	26,616	21,375	124,746
Spotted seatrout	4,259	7,643	4,714	3,185	3,750	6,386	7,273	18,166	11,426	3,538	6,380	3,742	80,462
Black drum	967	1,949	3,067	1,699	2,801	1,786	2,969	2,089	2,143	2,037	4,000	2,139	27,646
Sand seatrout	0	0	0	0	0	0	0	0	0	5	0	0	5
Flounder	924	1,912	24,708	4,811	2,213	636	657	761	999	969	1,139	777	40,506
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	104	106	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	63	8	0	0	0	68	415	1,167	7	1	3	50	1,782
Sheepshead	695	1,360	2,291	645	339	754	2,619	949	737	870	932	386	12,577
Mullet	0	0	0	0	0	0	0	25	0	0	407	0	432
Pompano	0	0	0	0	0	0	18	0	0	0	0	0	18
Unclassified food	0	0	0	0	0	0	0	0	298	0	0	39	337
Unclassified scrap	0	0	0	0	0	0	50	0	0	0	0	0	50
Total finfish	9,109	22,845	45,856	16,274	13,950	13,830	18,967	29,136	26,687	24,132	39,477	28,508	288,771
Blue crabs	480,104	360,977	366,731	257,853	311,786	208,578	142,509	212,146	284,100	347,385	347,012	225,168	3,544,349
Oyster meat	0	0	0	7,279	5,157	6,212	8,306	0	0	0	0	0	26,954
Shrimp (heads-on)													
Brown and pink	5,383	0	0	0	0	0	2,558	3,501	325,583	371,591	188,009	12,999	909,624
White	290,735	351,380	196,958	14,331	0	0	0	600	146	2,570	1,122	193,274	1,051,116
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	776,222	712,357	563,689	279,463	316,943	214,790	153,373	216,247	609,829	721,546	536,143	431,441	5,532,043
Grand total	785,331	735,202	609,545	295,737	330,893	228,620	172,340	245,383	636,516	745,678	575,620	459,949	5,820,814

Table 7. Total monthly commercial finfish and shellfish landings (lb) from the Corpus Christi Bay system during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	3,129	9,037	7,446	4,993	6,484	9,332	7,864	6,823	3,580	6,972	7,113	10,158	82,931
Spotted seatrout	3,663	6,492	11,204	9,797	8,311	22,001	9,948	24,357	7,516	10,978	13,502	58,985	186,754
Black drum	13,551	27,362	19,105	25,705	15,543	40,549	54,364	16,589	10,984	11,579	10,767	8,076	254,174
Sand seatrout	268	188	225	84	13	154	94	466	0	0	0	0	1,492
Flounder	1,344	7,260	40,100	10,194	1,481	1,346	743	453	252	371	558	459	64,561
Whiting	0	0	0	0	0	0	126	30	0	0	0	0	156
Atlantic croaker	606	2,687	60	34	11	4	0	0	0	1	0	0	3,403
Gafftopsail catfish	1,802	720	0	0	0	0	1,020	7,378	129	20	0	72	11,141
Sheepshead	3,506	13,539	21,897	22,087	38,199	96,158	79,732	9,111	4,075	4,873	1,826	3,022	298,025
Mullet	0	0	0	5	6,176	27,994	1,437	53	0	0	0	0	35,665
Pompano	0	31	118	0	0	0	2	50	0	12	0	0	213
Unclassified food	208	288	0	0	0	0	0	0	0	0	0	0	496
Unclassified scrap	0	0	0	0	0	0	429	2,828	146	84	0	1,222	4,709
Total finfish	28,077	67,604	100,155	72,899	76,218	197,538	155,759	68,138	26,682	34,890	33,766	81,994	943,720
Blue crabs	4,301	23,275	16,751	2,803	100	0	2,167	1,000	3,575	2,396	4,864	759	61,991
Oyster meat	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp (heads-on)													
Brown and pink	0	10,261	0	0	0	0	23,893	115,578	470,853	570,633	70,702	38,585	1,300,505
White	263,825	279,006	201,623	15,185	0	66	4,199	237	7,724	2,723	62	94,871	869,521
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	268,126	312,542	218,374	17,988	100	66	30,259	116,815	482,152	575,752	75,628	134,215	2,232,017
Grand total	296,203	380,146	318,529	90,887	76,318	197,604	186,018	184,953	508,834	610,6432	109,394	216,209	3,175,737

Table 8. Total monthly commercial finfish and shellfish landings (lb) from the upper Laguna Madre Bay system during September 1979-August 1980. Data based on MMPPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	4,290	5,034	5,070	9,443	8,814	10,926	3,915	8,792	14,008	18,471	16,012	9,993	114,768
Spotted seatrout	5,842	5,605	6,474	9,047	9,872	13,090	8,565	10,513	17,187	19,453	8,062	11,654	125,634
Black drum	20,345	29,685	27,640	32,162	19,327	43,051	75,829	131,997	38,604	23,997	6,914	8,989	458,540
Sand seatrout	0	121	4	4	31	2	85	0	15	0	0	04	266
Flounder	201	175	556	189	56	67	38	32	121	491	600	25	2,551
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	246	29	265	9	97	17	0	0	4	114	0	310	1,091
Gafftopsail catfish	0	0	0	0	0	0	0	308	100	0	0	1	409
Sheepshead	2,275	2,682	4,788	3,652	3,754	8,972	1,402	1,510	2,077	1,458	1,034	1,984	35,588
Mullet	0	0	0	0	0	0	0	0	0	0	0	0	0
Pompano	0	701	168	0	0	0	0	0	0	0	0	0	869
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Total finfish	33,199	44,032	44,965	54,506	41,951	76,125	89,834	153,152	72,116	63,984	32,622	32,960	739,446
Blue crabs	0	0	20,756	1,350	49	546	155	368	2,212	2,751	0	607	28,794
Oyster meat	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp (heads-on)	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown and pink	0	0	0	0	0	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	0	0	20,756	1,350	49	546	155	368	2,212	2,751	0	607	28,794
Grand total	33,199	44,032	65,721	55,856	42,000	76,671	89,989	153,520	74,328	66,735	32,622	33,567	768,240

Table 9. Total monthly commercial finfish and shellfish landings (lb) from the lower Laguna Madre Bay system during September 1979-August 1980. Data based on MMR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	25,805	27,169	49,990	45,246	24,244	37,615	22,467	32,097	43,012	29,172	33,609	18,824	389,250
Spotted seatrout	13,025	15,207	19,125	19,415	16,731	30,581	17,572	28,122	46,166	20,451	31,212	10,361	268,238
Black drum	23,971	24,171	36,162	51,370	54,760	27,938	21,116	10,405	8,235	3,577	22,357	3,996	288,058
Sand seatrout	0	0	0	0	119	0	0	0	0	0	0	0	119
Flounder	689	1,391	1,503	24,945	1,641	139	35	419	371	428	476	633	32,670
Whiting	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	241	327	204	491	29	776	42	27	19	22	20	5	2,203
Gafftopsail catfish	35	0	0	0	0	0	0	0	0	0	0	0	35
Sheepshead	725	2,699	5,816	9,359	60,470	6,787	4,098	1,484	546	95	149	84	92,312
Mullet	0	0	0	0	269	0	0	0	0	0	0	0	269
Pompano	0	15	635	63	4	0	0	9	0	3	0	0	729
Unclassified food	159	0	0	76	0	0	0	81	79	116	97	307	915
Unclassified scrap	0	51	0	0	0	0	0	49	0	0	16	47	163
Total finfish	64,650	71,030	113,435	150,965	158,267	103,836	65,330	72,693	98,428	53,864	87,936	34,527	1,074,961
Blue crabs	4,269	4,348	0	31,243	0	0	31,841	95,339	75,326	77,081	78,295	6,335	404,077
Oyster meat	0	0	0	0	14,000	881	0	385	0	228	0	0	15,494
Shrimp (heads-on)													
Brown and pink	0	0	0	0	0	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Total shellfish	4,269	4,348	0	31,243	14,000	881	31,841	95,724	75,326	77,309	78,295	6,335	419,571
Grand total	68,919	75,378	113,435	182,208	172,267	104,717	97,171	168,417	173,754	131,173	166,231	40,862	1,494,532

Appendix C. Total monthly commercial finfish and blue crab landings
(lb) from Gulf of Mexico grid areas during September 1979-August 1980.

Table 1. Total monthly commercial finfish and blue crab landings (lb) from the Gulf of Mexico Grid Area 17.0 during September 1979-August 1980. Data based on MMPP.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	0	0	40	0	97	0	0	0	0	0	68	205
Spotted seatrout	0	0	0	0	0	0	9	0	0	7	0	47	63
Black drum	0	114	0	0	0	97	0	0	0	0	0	0	211
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	236	323	264	153	196	0	90	29	0	272	53	1,438	3,054
Atlantic croaker	0	0	0	0	0	0	341	0	0	0	0	0	341
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	29	482	0	0	0	0	0	0	422	0	5	938
Mullet	0	0	0	0	0	0	0	0	0	0	0	0	0
Pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	0	0	0	0	0	0	0	0	0	0	0
Groupers	0	0	0	0	0	0	0	0	0	0	0	0	0
Whiting	0	176	132	82	0	179	88	76	0	256	154	45	2,206
Red snapper	1,670	0	435	5	0	0	0	0	0	1,274	5	633	2,307
Total finfish	1,906	642	1,313	280	196	373	528	105	0	2,418	212	2,236	10,209
Blue crabs	0	0	100	0	0	1,484	366	245	0	525	0	0	2,720
Grand total	1,906	642	1,413	280	196	1,857	894	350	0	2,943	212	2,236	12,929

Note: The Gulf of Mexico grid area shrimp landings at Texas ports furnished TPWD by Division of Statistics-Market News, NMFS, Galveston are not available.

Table 2. Total monthly commercial finfish and blue crab landings (lb) from the Gulf of Mexico Grid Area 18.0 during September 1979--August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	264	18	0	82	0	0	110	1,775	0	0	1,557	4,476
Spotted seatrout	2,191	2,657	4,415	1,670	1,336	5	115	505	110,180	10,906	8,062	3,343	45,385
Black drum	290	497	0	102	428	780	5	0	353	0	102	172	2,729
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	1,808	3,609	5,909	1,040	1,381	265	266	196	1,028	1,196	701	1,848	19,248
Gafftopsail catfish	584	240	0	393	0	0	0	0	0	0	0	0	1,230
Sheepshead	220	3,759	361	899	9	177	1,023	412	975	0	546	31	522
Mullet	118	118	2,444	0	0	0	0	515	404	68	0	0	8,700
Pompano	0	76	0	0	0	0	554	0	0	0	0	0	3,667
Unclassified food	3,940	219	238	37	0	0	0	557	19	0	187	10,000	630
Unclassified scrap	11,837	11,737	0	0	13	0	0	2,354	1,385	0	0	0	15,197
Cobia	92	152	175	14	12	0	0	136	5	138	195	123	27,326
Grouper	260	9	32	471	3,157	1,461	951	3,682	51	915	2,500	0	1,042
Whiting	605	422	1,129	1,398	63	180	1,120	20	1,028	431	499	0	13,489
Red snapper	2,178	2,747	1,719	3,920	4,865	3,242	5,424	4,068	8,034	3,764	2,227	2,323	6,895
Total finfish	24,123	26,506	16,528	9,944	11,347	6,110	9,458	12,575	25,620	17,418	16,576	18,842	195,047
Blue crabs	0	0	0	0	0	70	0	301	81	0	33	0	485
Grand total	24,123	26,506	16,528	9,944	11,347	6,180	9,458	12,876	25,701	17,418	16,609	18,842	195,532

Note: The Gulf of Mexico grid area shrimp landings at Texas ports furnished TPMD by Division of Statistics-Market News, NMFS, Galveston are not available.

Table 3. Total monthly commercial finfish and blue crab landings (lb) from the Gulf of Mexico Grid Area 19.0 during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	0	0	4,247	740	0	0	1,043	70	114	0	0	6,214
Spotted seatrout	0	52	18	7,245	5,982	0	0	3,514	0	0	152	149	17,112
Black drum	24	0	23	2,807	0	0	0	0	0	0	8	9	2,871
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	0	118	71	0	0	0	0	118	0	0	5	922	1,234
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	0	0	0	941	0	0	0	0	0	941
Mullet	0	0	0	0	0	0	0	0	0	0	42	15	998
Pompano	0	0	0	0	0	0	0	71	2	0	0	0	73
Unclassified food	0	0	0	0	0	31	0	0	426	0	0	0	698
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	19	0	0	0	201	17	0	0	0	0	0	73	310
Grouper	267	0	0	0	301	11	0	673	0	144	2,314	0	3,710
Whiting	0	0	0	0	0	0	0	0	0	0	0	187	187
Red snapper	2,095	1,441	112	0	1,378	1,309	556	10,742	1,291	0	7,210	5,685	31,819
Total finfish	2,405	1,611	224	14,299	8,602	1,368	1,497	16,161	1,789	258	9,731	7,281	65,226
Blue crabs	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	2,405	1,611	224	14,299	8,602	1,368	1,497	16,161	1,789	258	9,731	7,281	65,226

Note: The Gulf of Mexico grid area shrimp landings at Texas ports furnished TPMD by Division of Statistics-Market News, NMFS, Galveston are not available.

Table 4. Total monthly commercial finfish and blue crab landings (lb) from the Gulf of Mexico Grid Area 21.0 during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	0	0	0	0	0	0	0	0	0	0	0	0
Spotted seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Black drum	0	0	0	0	0	0	0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	0	0	726	1,433	242	0	0	172	143	134	253	0	3,103
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet	0	0	0	0	0	0	0	0	0	0	0	0	0
Pompano	0	1,205	0	0	14	0	0	4	0	0	0	42	1,265
Unclassified food	0	28	0	0	279	0	0	0	0	0	0	0	307
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	0	0	0	0	0	0	0	0	0	0	0
Grouper	0	243	0	71	0	0	0	634	0	0	804	0	1,752
Whiting	0	0	0	33	0	0	0	0	0	0	0	0	33
Red snapper	646	11,889	3,675	5,326	6,711	8,955	6,449	11,533	3,770	396	5,507	1,390	66,247
Total finfish	646	13,365	4,401	6,830	7,279	8,955	6,449	12,343	3,913	530	6,564	1,432	72,707
Blue crabs	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	646	13,365	4,401	6,830	7,279	8,955	6,449	12,343	3,913	530	6,564	1,432	72,707

Note: The Gulf of Mexico grid area shrimp landings at Texas ports furnished TPWD by Division of Statistics-Market News, NMFS, Galveston are not available.

Appendix D. Summary by month of Texas bays finfish and shellfish landings (lb) and ex-vessel values (dollars) during September 1979-August 1980.

Table 1. Total monthly commercial finfish and shellfish landings (lb) from Texas bays during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	39,644	54,441	83,130	73,299	47,992	66,384	46,460	57,573	78,593	75,559	86,236	73,905	783,216
Spotted seatrout	30,702	48,239	55,593	51,420	52,802	90,992	53,557	101,769	118,294	60,826	69,904	88,023	82,121
Black drum	66,252	91,340	94,403	114,317	96,820	118,363	159,793	174,940	74,542	47,451	46,069	29,070	1,113,360
Sand seatrout	268	309	820	286	350	558	179	466	15	5	0	155	3,411
Flounder	6,422	19,493	95,262	41,380	6,395	2,762	2,148	4,493	5,600	3,746	5,512	4,366	197,579
Whiting	1,174	1,525	2,354	1,229	632	347	799	530	1,708	559	1,104	221	12,182
Atlantic croaker	3,104	4,155	611	1,599	192	1,123	63	403	694	738	51	1,728	14,961
Gafftopsail catfish	2,783	4,570	126	0	0	117	2,702	14,520	27,207	47	176	143	52,391
Sheepshead	9,359	25,985	37,563	36,919	105,807	114,755	94,748	21,076	22,886	12,344	6,093	14,209	501,744
Mullet	100	105	71	5	6,445	28,364	1,495	149	446	0	407	5	37,592
Pompano	0	748	921	63	4	0	20	83	0	15	0	0	1,854
Unclassified food	15,597	1,591	1,257	1,025	322	786	654	2,466	973	896	568	9,373	35,508
Unclassified scrap	577	4,094	4,907	192	0	0	529	4,655	12,111	8,294	8,503	8,000	51,862
Total finfish	175,982	256,595	377,018	321,734	317,761	424,551	363,147	383,123	343,069	210,480	25,123	229,198	3,627,781
Blue crabs	1,095,819	999,723	700,221	616,799	668,229	520,093	561,850	623,556	1,060,795	1,111,677	1,049,517	717,688	9,725,967
Oyster meat	0	0	0	78,884	152,178	200,647	417,964	182,221	41,288	70,980	92,562	42,559	1,279,283
Shrimp (heads-on)													
Brown and pink	221,171	15,951	0	0	0	0	26,451	121,744	1,654,171	3,764,971	1,471,778	388,306	7,664,543
White	1,337,314	1,864,181	1,667,672	369,308	0	2,345	8,333	40,059	176,103	104,961	25,303	1,454,068	7,049,647
Other shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Squid	14	0	0	0	0	0	0	0	0	0	0	0	14
Total shellfish	2,654,318	2,879,855	2,367,893	1,064,991	820,407	723,085	1,014,598	967,580	2,932,357	5,052,589	2,639,160	2,602,621	25,719,454
Grand total	2,830,300	3,136,450	2,744,911	1,386,725	1,138,168	1,147,636	1,377,745	1,350,703	3,275,426	5,263,069	2,864,283	2,831,819	29,347,235

Table 2. Monthly ex-vessel value (dollars) of commercial finfish and shellfish landings (lb) from Texas bays during September 1979-August 1980. Data based on MMPP.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	37,941	54,138	72,880	50,107	42,651	58,871	48,416	61,250	80,043	79,817	93,049	79,595	758,758
Spotted seatrout	29,635	48,614	49,097	40,413	47,698	87,739	56,077	108,220	121,880	63,382	73,389	89,355	815,499
Black drum	31,689	46,454	43,962	46,142	42,344	60,178	79,130	90,448	39,792	27,855	26,208	16,324	550,526
Sand seatrout	54	74	237	83	117	506	36	116	3	1	0	30	1,257
Flounder	5,757	19,224	76,582	33,217	5,924	2,842	2,355	4,715	5,467	4,106	6,040	4,365	170,594
Whiting	240	372	354	366	63	87	149	104	271	114	224	45	2,389
Atlantic croaker	519	747	99	369	21	92	9	78	104	141	111	342	2,632
Gafftopsail catfish	627	1,106	8	0	0	64	696	2,628	6,696	10	70	24	11,929
Sheepshead	1,848	5,344	6,310	4,684	13,752	12,140	10,113	4,381	4,207	2,634	1,461	2,843	69,717
Mullet	20	11	7	0	631	2,549	195	29	22	0	41	1	3,506
Pompano	0	785	1,371	104	4	0	25	113	0	17	0	0	2,419
Unclassified food	3,127	321	252	395	96	531	145	709	503	168	120	3,233	9,600
Unclassified scrap	58	438	274	19	0	0	45	600	759	830	851	2,079	5,953
Total finfish	111,515	177,628	251,433	175,899	153,301	225,599	197,391	273,391	259,747	179,075	201,564	198,236	2,404,779
Blue crabs	254,620	232,742	169,415	152,756	177,708	143,801	140,378	177,912	288,359	332,162	284,398	196,707	2,550,958
Oyster meat	0	0	0	116,925	222,273	286,530	618,315	267,679	70,770	119,154	158,670	72,960	1,933,276
Shrimp (heads-on)													
Brown and pink	270,560	12,261	0	0	0	0	32,965	143,310	1,224,808	2,985,846	1,461,311	443,737	6,574,798
White	2,334,103	2,667,717	1,533,909	270,073	0	2,181	12,378	65,065	348,206	249,823	60,581	2,348,438	9,892,474
Squid	5	0	0	0	0	0	0	0	0	0	0	0	5
Total shellfish	2,859,288	2,912,720	1,703,324	539,754	399,981	432,512	804,036	653,966	1,932,143	3,686,985	1,964,960	3,061,842	20,951,511
Grand total	2,970,803	3,090,348	1,954,757	715,653	553,282	658,111	1,001,427	927,357	2,191,890	3,866,060	2,166,524	3,260,078	23,356,290

Appendix E. Summary by month of Gulf of Mexico grid areas finfish and shellfish landings (lb) and ex-vessel values (dollars) during September 1979-August 1980.

Table 1. Total monthly commercial finfish and shellfish landings (lb) from the Gulf of Mexico in Texas waters during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	264	18	4,287	822	97	0	1,153	1,845	114	1,557	738	10,895
Spotted seatrout	2,191	2,709	4,433	8,915	7,318	5	124	4,019	10,180	10,913	8,214	3,539	62,560
Black drum	314	611	23	2,909	428	877	5	0	353	0	110	181	5,811
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	2,044	4,050	6,970	2,626	1,820	265	356	515	1,171	1,602	1,012	4,208	26,639
Atlantic croaker	584	240	0	393	0	0	341	0	0	0	0	13	1,571
Gafftopsail catfish	0	0	0	0	0	0	0	20	383	0	31	31	434
Sheepshead	220	3,788	843	899	9	177	1,964	412	975	422	588	339	10,636
Mullet	118	118	2,444	0	0	0	0	515	404	68	0	0	3,667
Pompano	0	1,281	0	0	14	0	554	75	2	0	0	42	1,968
Unclassified food	3,940	247	238	37	279	31	0	557	445	0	187	10,241	16,202
Unclassified scrap	11,837	11,737	0	0	13	0	0	2,354	1,385	0	0	0	27,326
Cobia	111	152	175	14	213	17	0	136	5	138	195	196	1,352
Grouper	527	252	32	542	3,458	1,472	951	4,989	51	1,315	5,618	0	19,207
Whiting	605	598	1,261	1,480	96	359	1,208	96	1,028	1,705	653	232	9,321
Red snapper	6,589	16,077	5,941	9,251	12,954	13,506	12,429	26,343	13,095	4,347	14,949	10,031	145,512
Total finfish	29,080	42,124	22,378	31,353	27,424	16,806	17,932	41,184	31,322	20,624	33,083	29,791	343,101
Blue crabs	0	0	100	0	0	1,554	366	546	81	525	33	0	3,205
Shrimp (heads-on)													
Brown and pink	3,210,051	4,166,643	3,390,710	2,912,809	1,683,586	929,215	340,921	403,604	962,021	2,419,192	7,386,866	11,980,693	39,786,311
White	959,156	2,694,358	1,385,639	865,150	313,136	267,855	225,160	203,347	248,763	466,855	507,613	247,592	8,384,624
Other shrimp	0	5,586	249,954	427,536	276,616	15,197	203	12,825	0	0	0	8,651	996,568
Total shellfish	4,169,207	6,866,587	5,026,403	4,205,495	2,273,338	1,213,821	566,650	620,322	1,210,865	2,886,572	7,894,512	12,236,936	49,170,708
Grand total	4,198,287	6,908,711	5,048,781	4,236,848	2,300,762	1,230,627	584,582	661,506	1,242,187	2,907,196	7,927,595	12,266,727	49,513,809

Table 2. Monthly ex-vessel value (dollars) of commercial finfish and shellfish landings (lb) from the Gulf of Mexico in Texas waters during September 1979-August 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
Red drum	0	356	13	3,201	633	53	0	1,226	2,037	120	1,868	869	10,376
Spotted seatrout	1,872	3,115	4,106	7,001	5,756	1	93	4,313	11,306	11,435	8,675	3,565	61,238
Black drum	55	188	9	852	64	128	1	0	195	0	64	125	1,681
Sand seatrout	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder	1,312	2,909	4,550	1,345	1,020	152	257	451	1,10	1,346	746	3,673	18,871
Atlantic croaker	117	18	0	118	0	0	34	0	0	0	0	3	380
Gafftopsail catfish	0	0	18	0	0	0	0	6	115	0	0	8	147
Sheepshead	33	570	155	152	1	27	338	67	254	42	139	83	1,861
Mullet	35	35	367	0	0	0	0	77	40	24	0	0	578
Pompano	0	2,155	0	0	8	0	748	103	3	0	0	71	3,088
Unclassified food	1,079	125	48	4	42	6	0	139	521	0	224	4,121	6,309
Unclassified scrap	2,367	2,347	0	0	1	0	0	235	139	0	0	0	5,089
Cobia	46	68	76	6	75	3	0	61	2	62	113	79	591
Grouper	165	87	13	240	927	702	478	1,857	26	608	2,834	0	7,937
Whiting	91	81	187	287	23	47	189	24	147	229	139	52	1,496
Red snapper	7,886	22,783	7,445	12,638	16,332	17,646	18,406	41,814	20,410	7,124	24,214	15,003	211,701
Total finfish	15,058	34,927	16,987	25,844	24,882	18,765	20,544	50,373	36,305	20,990	39,016	27,652	331,343
Blue crabs	0	0	30	0	0	300	73	115	24	105	10	0	657
Shrimp (heads-on)													
Brown and pink	8,580,735	12,255,065	9,478,368	7,969,736	4,914,315	2,533,444	914,991	885,919	2,052,020	4,214,051	12,790,023	26,327,992	92,916,659
White	2,656,135	8,200,845	3,387,467	1,691,542	614,769	542,209	471,998	470,237	626,223	1,204,154	1,265,380	518,491	21,649,550
Other shrimp	0	2,011	124,603	236,849	141,811	8,358	114	11,927	0	0	0	4,085	529,758
Total shellfish	11,236,870	20,458,021	12,990,468	9,898,127	5,670,895	3,084,311	1,387,176	1,368,198	2,678,267	5,418,310	14,055,413	26,850,568	115,096,624
Grand total	11,251,928	20,492,948	13,007,455	9,923,971	5,695,777	3,103,076	1,407,720	1,418,571	2,714,572	5,439,300	14,094,429	26,878,220	115,427,967

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