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TEXAS COMMERCIAL HARVEST STATISTICS, 1977-1980

by C.L. Hamilton

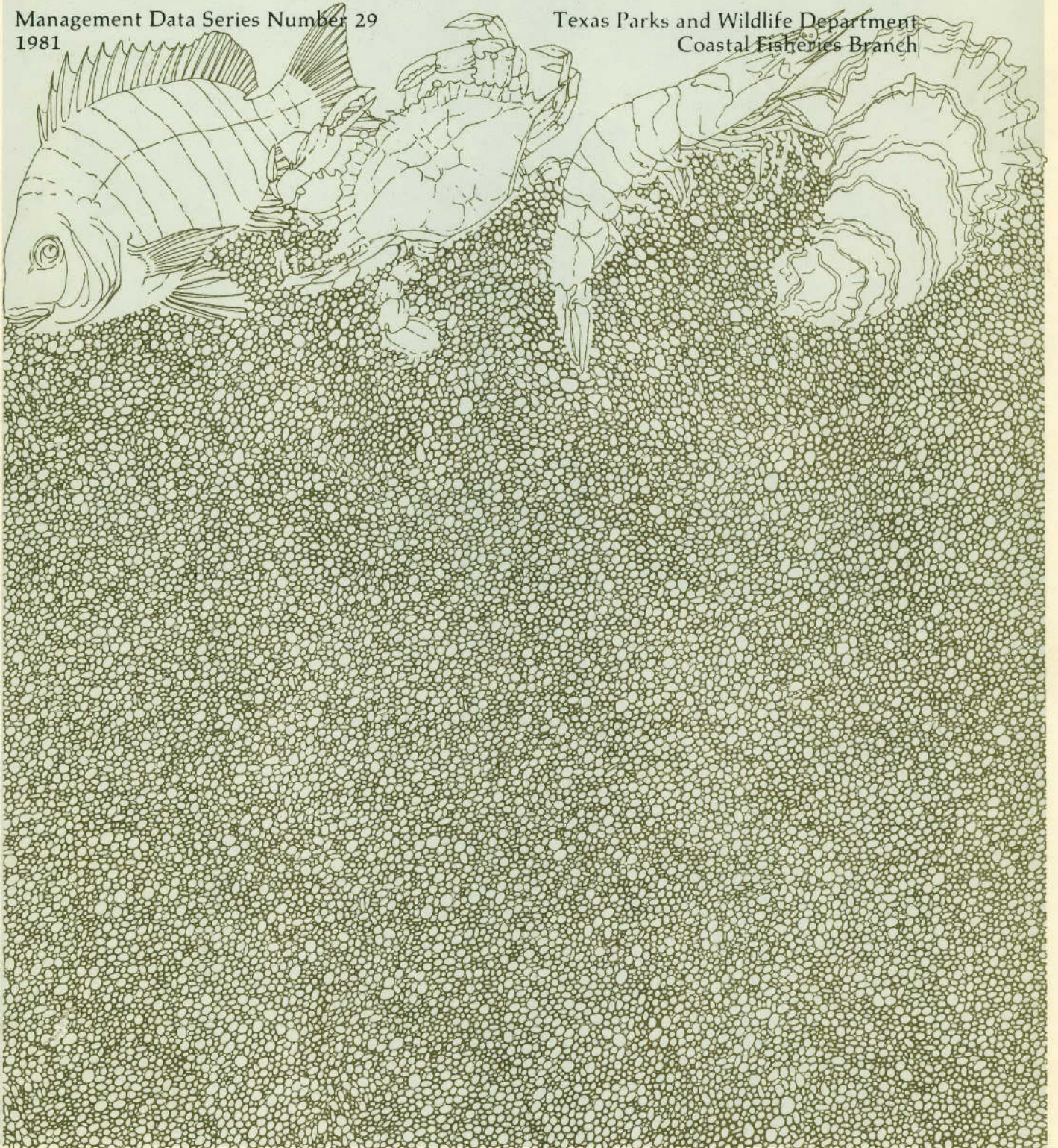
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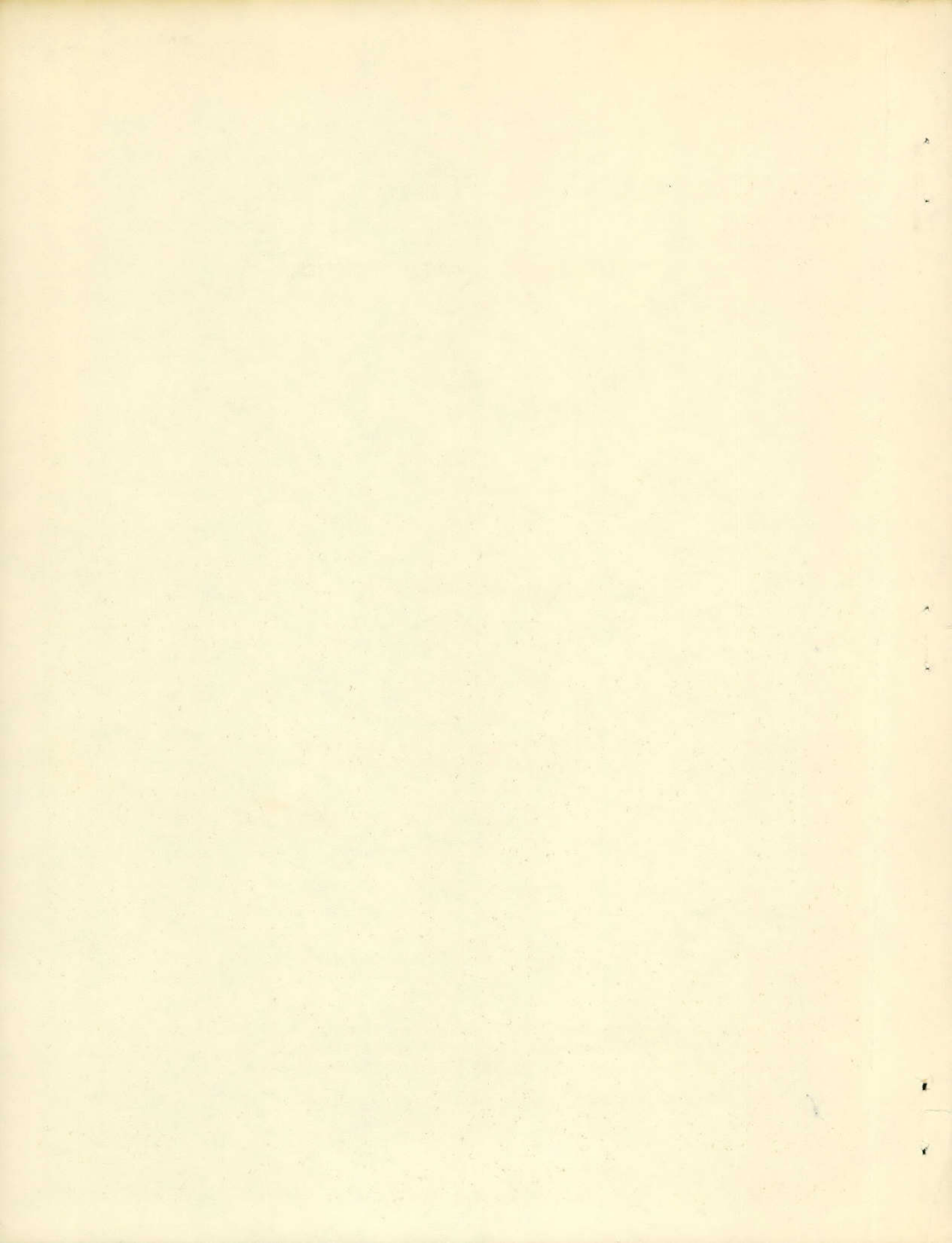
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Management Data Series Number 29
1981

Texas Parks and Wildlife Department
Coastal Fisheries Branch





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MANAGEMENT DATA SERIES

NO. 29

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TEXAS COMMERCIAL HARVEST STATISTICS,
1977-1980

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 Mexico landings combined decreased 18,794,800 lb but increased \$15,387,700 in value from 1977 to 1980. Brown shrimp (Penaeus aztecus), pink shrimp (P. duorum) and white shrimp (P. setiferus) constituted 86-90% of all shellfish landings in all years.

Red drum (Sciaenops ocellata), spotted seatrout (Cynoscion nebulosus), and black drum (Pogonias cromis) constituted 71-75% of all finfish landings in all years. From 1977 to 1980 landings of brown and pink shrimp decreased 13,565,500 lb; landings of white shrimp decreased 5,184,900 lb; landings of red drum increased 163,600 lb; landings of spotted seatrout decreased 368,700 lb and landings of black drum decreased 395,100 lb.

From 1977 to 1980 the mean price/lb paid to commercial fishermen increased for all species except for the "other" finfishes prices which decreased \$0.01/lb and the "other" shrimp price which decreased \$0.81/lb. Finfish prices increased by \$0.04 to \$0.58/lb and shellfish prices increased by \$0.01 to \$0.46/lb.

INTRODUCTION

The Texas Parks and Wildlife Department (TPWD) in cooperation with the National Marine Fisheries Service (NMFS) conducts a continuing program to collect data on the commercially landed finfishes and shellfishes from Texas bays and from Texas territorial waters of the Gulf of Mexico (16.7 km into the Gulf) (Fig. 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 October 1977-December 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. Finfish only are required to be reported on IST. 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 finfishes, 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 are sold to anyone other than a licensed dealer.

All MMPR's and/or IST's must be submitted to TPWD on or before the 10th day of each month; both reports cover the preceding month's transactions. MMPR must include landings of finfishes, 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 calendar years 1979 and 1980, as reported to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary data and may include revisions.

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

RESULTS

From 1977 to 1980 total finfish and shellfish landings decreased 18,794,900 lb (17%) and increased \$15,387,700 (12%) in value (Table 2). Total shellfish landings decreased 17,851,900 lb (17%) and increased \$14,571,100 (10%) in value. Total finfish landings decreased 943,000 lb (18%) and increased \$816,600 (35%) in value.

Brown shrimp, pink shrimp and white shrimp constituted 86-90% of all shellfish landings in all years (Table 2). From 1977 to 1980 brown and pink shrimp landings decreased 13,565,500 lb (19%) but increased \$13,157,000 (13%) in value, and white shrimp decreased 5,184,900 lb (27%) but increased \$1,010,600 (4%) in value.

Red drum, spotted seatrout and black drum constituted 71-75% of all finfish landings in all years (Table 2). From 1977 to 1980 landings of red drum increased 163,600 lb (17%) and \$513,300 (100%) in value; spotted seatrout decreased 368,700 lb (27%) but increased \$238,000 (33%) in value; and black drum decreased 395,100 lb (27%) but increased \$140,000 (35%) in value.

The mean price/lb paid to commercial fishermen increased for all species from 1977 to 1980 except for "other" finfishes the price of which decreased from \$0.20 to \$0.19/lb and "other" shrimp the price of which

decreased from \$1.11 in 1977 to \$0.33/lb in 1980 (Table 3). Of the finfish species the snapper price increase of \$0.58/lb was highest followed by red drum and spotted seatrout with a \$0.38 to 0.44/lb increase, black drum and flounder with a \$0.23 to 0.24/lb increase, respectively, and sheephead with a \$0.04/lb increase. The price paid for white shrimp and oyster meat increased \$0.36 to 0.37/lb, respectively, and the price paid for blue crab increased \$0.01/lb.

Monthly summaries of bay and Gulf of Mexico landings and value are presented in Appendices B-L.

Landings of red drum reported on IST were 9-20% lower than those reported on MMPR except during October-December 1980 when landings of red drum reported on IST were about 10,000 lbs greater than those on MMPR (Table 4). Differences were reported in all bay systems and in all years, with the IST landings usually about 10% less than the MMPR landings.

DISCUSSION

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

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

Although commercial landing data have been used to determine the stability of the resource, several assumptions must be made. The amount of inaccurate or incomplete reporting is typically unknown and must be considered constant when making temporal or spatial comparisons. The reliability of this assumption is, at best, questionable. A change in the reporting requirements can affect the amount of nonreporting and thus the reliability of conclusions about the stability of the resource is doubtful.

The weight reported on these two forms should have been identical, or the IST weight should have exceeded the MMPR weight. But, the IST consistently showed fewer pounds of red drum landed than the MMPR through the first 3 years of the IST's existence. In the latter part of 1980, the reverse was true. If the IST system only had been in operation, a greater decline in red drum landings would have been indicated than actually occurred. The problem of nonreporting is seldom considered by fisheries managers when using commercial landing data as the basis for management decisions. However, the problem is unavoidable in a self-reporting system.

LITERATURE CITED

- Bailey, R. M., J. E. Fitch, E. S. Herald, E. A. Lachner, C. C. Lindsey, C. R. Robins and W. B. Scott. 1970. A list of common and scientific names of fishes from the United States and Canada. 3rd ed. Amer. Fish. Soc. Spec. Pub. No. 6, Washington, D. C. 150 pp.
- Chin, Edward. 1960. The bait shrimp fishery of Galveston Bay, Texas. Trans. Amer. Fish. Soc. 89(2):135-141.
- Christmas, J. Y. and D. J. Etzold, eds. 1977. The shrimp fishery of the Gulf of Mexico United States: A regional management plan. Gulf Coast Res. Lab., Tech. Rept. Ser., No. 2. 128 pp.
- Grubb, H. W. 1973. The structure of the Texas economy. Vol. I. Office of the Governor, Austin, Texas 202 p.
- Harrington, Richard A., Gary C. Matlock and James E. Weaver. 1979. Standard-total length, total length-whole weight and dressed-whole weight relationships on related species from Texas bays. Texas Pks. & Wildl. Dept., Tech. Ser. No. 26. 6 pp.
- Hofstetter, R. P. 1977. Trends in population levels of the American oyster (*Crassostrea virginica*, Gmelin) on public reefs in Galveston Bay, Texas. Texas Pks. & Wildl. Dept., Tech. Ser. No. 24. 90 pp.
- Leary, S. P. 1967. The crabs of Texas. Texas Pks. & Wildl. Dept., Bull. No. 43. 57 pp.
- National Marine Fisheries Service. 1980. Fishery statistics of the United States, 1976. U. S. Natl. Mar. Fish. Serv. Stat. Dig. No. 70. 419 pp.
- Rathjen, W. F. 1973. Northwest Atlantic squids. Mar. Fish. Rev. 35(12): 20-26.

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

Common name	Scientific name ^a
SHELLFISH	
Brown shrimp	<u>Penaeus aztecus</u>
White shrimp	<u>Penaeus setiferus</u>
Pink shrimp	<u>Penaeus duorarum</u>
Other shrimp	
Royal red shrimp	<u>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>
FINFISH	
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	<u>Carcharhinus limbatus</u>
Atlantic sharpnose	<u>Rhizoprionodon terraenovae</u>
Bull	<u>Carcharhinus leucas</u>
Mako	<u>Isurus oxyrinchus</u>
Hammerhead	<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) for calendar years 1977, 1978, 1979 and 1980
Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	950.8	511.5	861.1	592.7	690.1	574.3	1,114.4	1,024.8
Spotted Seatrout	1,346.8	723.2	1,162.0	769.2	1,030.3	882.8	978.1	961.2
Black drum	1,453.5	399.8	1,785.5	607.5	1,531.4	602.3	1,058.4	539.8
Flounder	310.9	170.8	237.1	173.2	232.4	190.1	194.9	153.7
Sheepshead	293.9	28.8	327.9	39.2	406.1	55.8	473.5	66.5
Snapper	440.0	420.9	388.3	403.5	214.7	261.6	231.6	351.3
Other finfish	498.2	84.2	424.6	85.8	443.3	81.5	300.2	58.5
Total finfish	5,294.1	2,339.2	5,186.5	2,671.1	4,548.3	2,648.4	4,351.1	3,155.8
Blue crab	8,248.6	1,946.7	7,469.6	2,003.8	8,311.5	2,146.1	8,953.0	2,455.8
Oyster meat	2,600.5	2,991.7	1,907.0	2,205.6	888.8	1,048.7	1,738.5	2,692.3
Shrimp (Heads-on):								
Brown and pink	71,897.5	100,815.9	62,329.7	101,798.7	50,459.3	117,237.3	58,332.0	113,972.9
White	19,420.2	24,627.2	21,464.7	38,837.6	16,474.2	34,687.5	14,235.3	25,637.8
Other shrimp	260.3	235.2	332.3	344.6	719.2	381.0	1,330.2	433.2
Squid (bait)	13.8	4.2	15.5	4.4	0.9	0.2	0	0
Total shellfish	102,440.9	130,620.9	93,518.8	145,194.7	76,853.9	155,500.8	84,589.0	145,192.0
Grand total	107,735.0	132,960.1	98,705.3	147,865.8	81,402.2	158,149.2	88,940.1	148,347.8

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

Table 3. Price (\$/lb) paid commercial fishermen for finfish and shellfish during calendar years 1977, 1978, 1979 and 1980. Data based on MMPR.

Species	1977 Price		1978 Price		1979 Price		1980 Price	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean
Red drum	0.50-1.15	0.54	0.50-1.35	0.69	0.45-1.10	0.83	0.50-1.20	0.92
Spotted Seatrout	0.40-1.15	0.54	0.45-1.20	0.65	0.45-1.10	0.86	0.50-1.25	0.98
Black drum	0.25-0.65	0.28	0.30-0.65	0.34	0.25-0.50	0.39	0.35-0.70	0.51
Flounder	0.22-1.10	0.55	0.40-1.30	0.73	0.35-1.40	0.82	0.25-1.25	0.79
Sheepshead	0.05-0.35	0.10	0.05-0.35	0.12	0.05-0.30	0.14	0.03-0.25	0.14
Snapper	0.45-1.30	0.94	0.85-1.65	1.04	0.60-1.65	1.22	0.65-1.95	1.52
Other finfish	0.10-0.35	0.20	0.05-0.65	0.20	0.03-0.45	0.18	0.05-0.45	0.19
Blue crab	0.16-0.35	0.26	0.17-0.35	0.27	0.14-0.55	0.26	0.16-0.50	0.27
Oyster meat	0.85-1.25	1.18	1.01-1.25	1.16	0.91-1.63	1.18	1.01-1.64	1.55
Shrimp (heads-on):								
Brown and pink	0.85-3.10	1.49	0.65-3.25	1.63	0.45-3.25	2.32	0.40-3.15	1.95
White	0.45-2.95	1.44	0.90-2.95	1.81	0.45-3.15	2.11	0.45-2.95	1.80
Other shrimp	0.85-2.80	1.11	0.20-0.26	1.04	0.25-0.95	0.53	0.39-0.90	0.33

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

Table 4. Total commercial red drum landings (live weight in lb x 1000) by bay system and the Gulf of Mexico in Texas territorial waters during the years 1977-1980 (October-September). Data based on MMPR and IST

	Oct 77-Sept 78		Oct 78-Sept 79		Oct 79-Sept 80		Oct-Dec 1980	
	MMPR	IST	MMPR	IST	MMPR	IST	MMPR	IST
Sabine Lake	0	0	140	1,196	1,207	837	506	1,363
Galveston	14,787	17,772	25,801	21,123	6,981	6,212	6,551	7,819
Matagorda	36,075	37,160	29,615	27,669	25,138	21,887	7,470	10,474
San Antonio	83,455	53,552	47,673	38,077	48,495	45,715	56,269	48,625
Aransas	130,580	90,609	75,319	94,514	143,948	109,138	39,265	25,067
Corpus Christi	86,578	77,195	75,687	67,769	93,270	79,013	28,084	39,670
Upper Laguna Madre	65,324	55,579	99,825	83,738	147,041	115,241	90,748	107,079
Lower Laguna Madre	360,914	301,743	486,886	428,154	430,047	348,250	199,540	115,852
Gulf of Mexico	9,939	0	12,833	10,535	10,945	12,339	1,541	3,738
Unknown bay	0	0	0	1,510	0	7,054	0	0
TOTAL	787,652	633,610	853,779	774,285	907,072	745,686	349,974	359,687

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

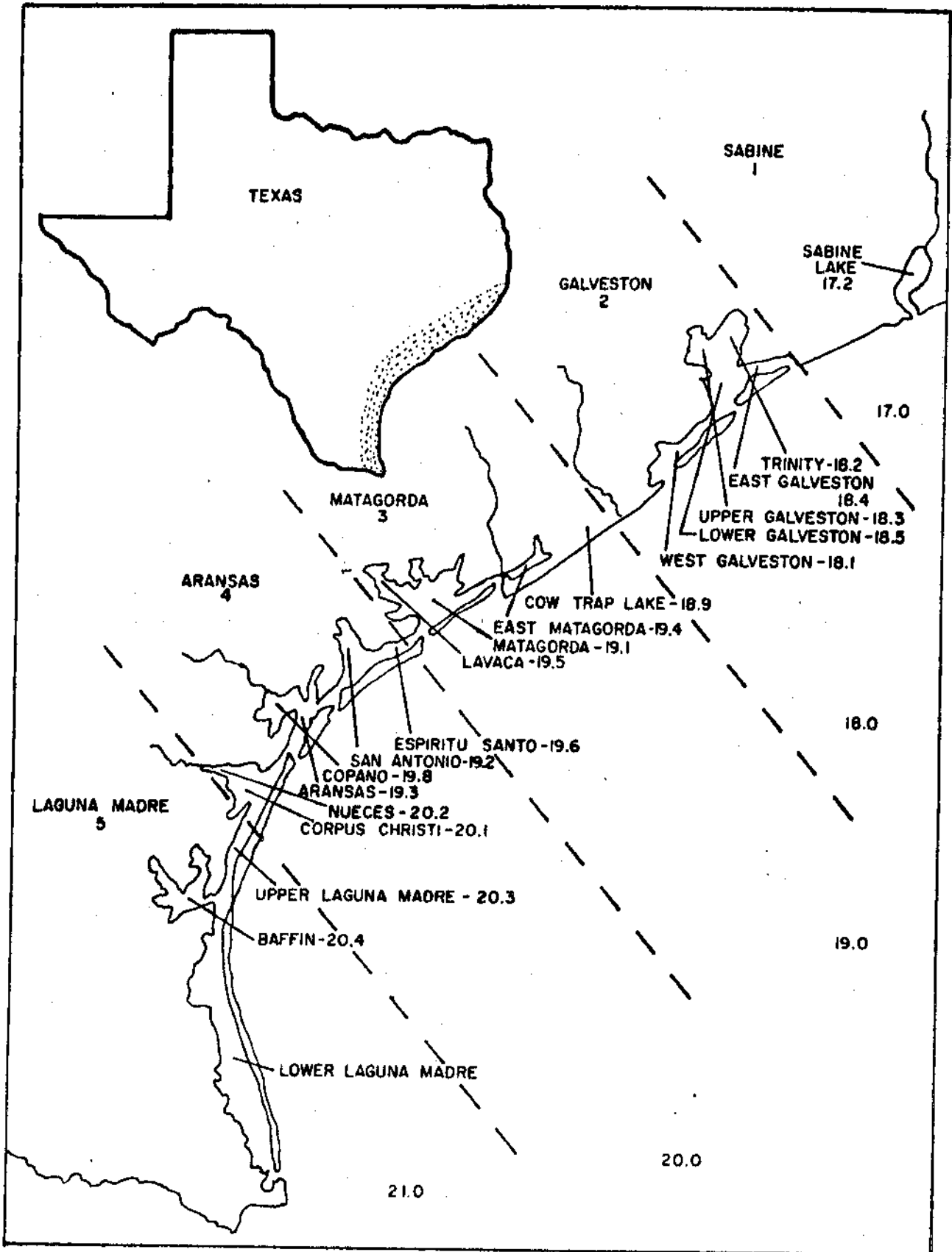


Figure 2. Example of Marine Monthly Products Report (MMPR) form.

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								
3784	Red Snapper								
3380	Gafftop Catfish								
3447	Trout								
3560	Sheepshead								
1940	Mackerel								
4740	Warsaw								
6260	Unclassified Food								
6290	Unclassified Scrap								
7000	Crab (Live Weight)								
	Others (List)								
	Shrimp (Heads on)								
7360	Brown and Pink		9999						
7361	White		9999						
7362	Other		9999						
8030	Squid								

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

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

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

GEAR USED: _____

TEXAS PARKS AND WILDLIFE DEPARTMENT

3615 La Paz Drive
Corpus Christi, Texas 78415

This report is due in one of the above offices of the Texas Parks and Wildlife Department before the 10th day of each month in accordance with H.B. 175, Reg. Ses. 44th Leg., and S.B. 624, Reg. Ses. 65th Leg.

PWD 227(10/79)

3400

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

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

15

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:

6 CITIES ONLY ONE AREA CODE - SEE MAP ON FOLDER

							UPPER	LOWER	GULF OF MEXICO													
SABINE	GALVESTON	MATAGORDA	SAN ANTONIO	ARANSAS	CORPUS CHRISTI	LAGUNA MADRE	LAGUNA MADRE															
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 shellfish.

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. Weight (lb) and ex-vessel value (\$) of commercial landings in Texas bays during calendar years 1977-1980.

Table 1. Weight (lb) and the ex-vessel value (\$) of commercial landings in Sabine Lake during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	725	430	0	0	274	172	1,618	1,238
Spotted seatrout	209	125	0	0	0	0	158	136
Black drum	980	281	0	0	556	199	48	24
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	687	424	330	166	51	25	78	43
Whiting	37	7	114	23	60	13	240	69
Atlantic croaker	0	0	0	0	9	2	124	55
Gafftopsail catfish	39	8	0	0	9	2	0	0
Sheepshead	139	34	59	12	764	169	627	166
Mullet	0	0	0	0	56	13	60	28
Pompano	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	50	20
Unclassified scrap	0	0	0	0	248	54	30	8
Total finfish	2,816	1,309	503	201	2,027	649	3,033	1,787
Blue crab	226,100	57,906	624,171	163,290	163,301	49,330	70,089	24,044
Shrimp (Heads on):								
Brown and pink	2,336	1,098	0	0	0	0	1,099	1,113
White	4,212	2,529	2,763	4,528	0	0	49,900	37,519
Other shrimp	0	0	0	0	0	0	4,668	1,354
Total shellfish	232,648	61,533	626,934	167,818	163,301	49,330	125,756	64,030
Grand total	235,464	62,842	627,437	168,019	165,328	49,979	128,789	65,817

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

Table 2. Weight (lb) and the ex-vessel value (\$) of commercial landings in Galveston Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	24,168	12,360	14,857	10,319	18,692	15,285	13,114	13,566
Spotted seatrout	135,486	71,609	344,185	199,939	122,094	100,716	90,640	95,287
Black drum	102,175	28,002	161,887	48,796	73,101	23,318	55,999	30,080
Sand seatrout	1,211	412	3,438	2,105	1,016	289	2,116	1,084
Flounder	14,382	8,001	55,173	43,424	46,869	41,204	31,477	28,679
Whiting	6,530	1,239	4,647	791	7,828	1,779	5,824	1,003
Atlantic croaker	5,989	1,326	8,937	1,075	9,604	1,594	5,204	997
Gafftopsail catfish	20,875	3,924	32,554	6,676	23,900	5,353	34,421	8,770
Sheepshead	21,117	4,872	55,504	10,514	72,192	10,809	65,844	15,128
Mullet	3,843	1,039	1,946	238	46,427	4,946	2,251	474
Pompano	0	0	19	7	1	0	0	0
Unclassified food	41,313	8,373	75,265	14,780	36,569	8,345	29,028	9,499
Unclassified scrap	78,691	10,338	49,282	5,792	44,242	3,879	39,496	5,039
Total finfish	455,780	151,495	807,694	344,456	502,535	217,517	375,414	209,606
Blue crab	1,859,418	452,332	1,920,886	521,289	1,953,742	481,825	1,749,057	493,068
Oyster Meat	1,917,532	2,299,615	1,076,797	1,222,871	43,097	66,788	1,004,208	1,643,511
Shrimp (Heads on):								
Brown and pink	2,256,576	1,934,420	2,066,133	778,260	1,315,025	1,144,900	2,317,775	2,076,228
White	2,988,766	2,966,068	3,618,523	4,977,027	1,963,252	2,648,695	3,439,745	4,831,461
Other shrimp	1,600	320	0	0	0	0	0	0
Squid (bait)	3,335	1,107	3,528	987	162	37	0	0
Total shellfish	9,027,227	7,653,862	8,685,867	7,500,434	5,275,278	4,342,245	8,510,785	9,044,268
Grand total	9,483,007	7,805,357	9,493,561	7,844,890	5,777,813	4,559,762	8,886,199	9,253,874

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

Table 3. Weight (lb) and the ex-vessel value (\$) of commercial landings in Matagorda Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	26,521	15,326	18,353	12,411	16,235	13,671	19,414	18,791
Spotted seatrout	42,020	23,911	21,538	14,481	17,540	14,155	24,087	22,511
Black drum	17,489	4,774	16,503	5,160	10,150	4,021	11,364	5,603
Sand seatrout	0	0	0	0	197	80	21	5
Flounder	19,184	12,470	19,322	13,987	6,593	5,928	3,077	3,213
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	400	120	0	0	0	0	0	0
Gafftopsail catfish	1,536	305	3,265	795	867	326	0	0
Sheepshead	5,290	1,240	2,257	643	2,997	579	2,540	542
Mullet	1,196	344	564	139	270	34	0	0
Pompano	0	0	0	0	0	0	24	35
Unclassified food	1,047	210	79	12	0	0	131	33
Unclassified scrap	2,040	306	0	0	0	0	0	0
Total finfish	116,723	59,006	81,881	47,628	54,849	38,794	60,658	50,733
Blue crab	211,227	52,248	313,509	81,465	680,808	180,569	390,743	105,058
Oyster meat	168,605	188,224	145,791	182,319	120,937	146,205	333,179	495,533
Shrimp (Heads on):								
Brown and pink	1,008,551	353,186	767,620	301,006	2,546,059	2,190,100	2,059,240	1,663,153
White	2,621,280	2,488,878	2,526,703	3,269,862	2,832,037	3,920,487	1,538,837	2,622,548
Other shrimp	0	0	0	0	0	0	0	0
Squid (bait)	1,937	657	668	247	14	5	0	0
Total shellfish	4,011,600	3,083,193	3,754,291	3,834,899	6,179,855	6,437,366	4,321,999	4,886,292
Grand total	4,128,323	3,142,199	3,836,172	3,882,527	6,234,704	6,476,160	4,382,657	4,937,025

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

Table 4. Weight (lb) and the ex-vessel value (\$) of commercial landings in East Matagorda Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	17,364	10,007	14,462	9,105	8,014	6,869	8,240	7,753
Spotted seatrout	23,627	14,157	20,543	13,424	13,146	11,032	29,898	27,792
Black drum	9,339	2,556	9,593	2,759	7,531	2,655	4,248	1,770
Sand seatrout	0	0	3	1	329	132	0	0
Flounder	3,497	2,112	3,103	2,276	791	614	390	392
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	30	9	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0
Sheepshead	2,938	1,403	1,964	550	1,202	487	487	206
Mullet	0	0	0	0	0	0	1	0
Pompano	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0
Total finfish	70,820	30,953	49,668	28,115	31,222	21,883	43,264	37,913
Blue crab	309,699	75,882	267,668	66,482	196,073	48,079	468,952	123,063
Oyster meat	1,317	1,224	578	792	26,040	38,020	2,722	3,861
Shrimp (Heads on):								
Brown and pink	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0
Total shellfish	311,016	77,106	268,246	67,274	222,113	86,099	471,674	126,924
Grand total	381,836	108,059	317,914	95,389	253,335	107,982	514,938	164,837

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

Table 5. Weight (lb) and the ex-vessel value (\$) of commercial landings in San Antonio Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	64,505	34,878	65,777	47,652	43,368	39,152	102,797	94,662
Spotted seatrout	68,888	37,062	22,689	15,396	20,546	18,315	40,450	38,980
Black drum	39,889	9,631	31,040	9,021	8,679	3,231	17,636	8,365
Sand seatrout	19	2	0	0	0	0	0	0
Flounder	15,012	8,965	11,857	9,331	5,083	4,830	10,073	9,856
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0
Gafftopsail catfish	6,829	1,254	257	43	243	43	49	27
Sheepshead	6,523	757	11,544	1,595	5,903	1,134	4,851	1,032
Mullet	188	38	574	83	0	0	0	0
Pompano	0	0	0	0	0	0	0	0
Unclassified food	154	69	22	3	680	272	89	9
Unclassified scrap	0	0	0	0	0	0	0	0
Total finfish	202,007	92,656	143,750	83,124	84,502	66,977	175,945	152,891
Blue crab	2,181,587	506,154	1,925,483	504,868	2,681,111	723,938	3,011,967	802,172
Oyster meat	438,391	428,621	560,780	661,881	600,745	686,703	361,303	503,258
Shrimp (Heads on):								
Brown and pink	231,089	74,219	685,755	221,690	738,899	570,771	1,713,386	1,028,620
White	1,428,055	975,469	630,176	613,291	952,150	1,149,737	559,288	775,524
Other shrimp	0	0	0	0	0	0	0	0
Squid (bait)	50	8	0	0	0	0	0	0
Total shellfish	4,279,172	1,984,471	3,802,194	2,001,730	4,972,905	3,131,149	5,105,944	3,109,574
Grand total	4,481,179	2,077,127	3,945,944	2,084,854	5,057,407	3,198,126	5,281,889	3,262,465

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

Table 6. Weight (lb) and the ex-vessel value (\$) of commercial landings in Aransas Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	158,484	96,180	121,559	97,254	74,734	69,246	169,273	170,883
Spotted seatrout	223,071	130,485	120,603	86,081	106,047	93,462	79,647	80,795
Black drum	203,441	33,415	81,282	26,440	24,064	9,094	36,919	17,804
Sand seatrout	5,246	3,138	2,111	1,689	329	77	93	19
Flounder	68,100	40,208	41,200	33,525	42,414	34,294	58,005	43,227
Whiting	0	0	4	0	0	0	0	0
Atlantic croaker	3,135	469	3,680	303	257	44	18	4
Gafftopsail catfish	16,391	2,731	4,445	935	3,528	885	1,752	308
Sheepshead	37,993	2,654	33,778	2,938	21,264	2,720	11,954	1,573
Mullet	2,048	102	1,870	208	1,051	105	14,951	770
Pompano	36	20	9	9	236	228	21	27
Unclassified food	740	124	235	50	54	6	337	340
Unclassified scrap	23,643	1,317	10	1	181	18	223	20
Total finfish	662,328	310,843	410,786	249,433	274,159	210,179	373,643	315,770
Blue crab	2,244,568	505,799	2,051,177	567,764	2,436,264	613,601	2,716,056	766,161
Oyster meat	65,573	65,103	119,994	133,735	96,013	108,704	21,588	22,934
Shrimp (Heads on):								
Brown and pink	473,954	159,139	659,810	221,432	1,427,626	1,148,755	1,010,885	862,589
White	1,781,140	1,395,300	993,356	1,135,803	1,227,415	1,746,314	824,648	1,207,650
Other shrimp	0	0	0	0	0	0	0	0
Total shellfish	4,565,235	2,125,341	3,824,337	2,058,734	5,187,318	3,617,374	4,573,177	2,859,334
Grand total	5,227,563	2,436,184	4,235,123	2,308,167	5,461,477	3,827,553	4,946,820	3,175,104

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

Table 7. Weight (lb) and the ex-vessel value (\$) of commercial landings in Corpus Christi Bay system during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	68,716	41,994	83,387	61,906	62,398	59,341	103,661	102,395
Spotted seatrout	82,301	47,601	166,787	115,307	152,168	131,493	192,315	198,155
Black drum	199,848	59,310	400,845	153,766	383,315	165,498	198,629	108,901
Sand seatrout	0	0	829	81	2,012	430	727	168
Flounder	49,128	29,921	44,879	35,304	68,726	55,662	26,813	21,887
Whiting	57	3	0	0	6	2	156	18
Atlantic croaker	3,206	334	1,900	314	3,489	676	5,028	376
Gafftopsail catfish	15,149	1,742	4,998	809	9,946	1,823	8,630	1,071
Sheepshead	116,863	7,736	126,860	11,979	201,684	25,873	251,267	29,996
Mullet	73	4	0	0	34,680	2,561	69,790	5,031
Pompano	37	22	291	268	173	172	101	124
Unclassified food	0	0	889	118	41,854	5,324	0	0
Unclassified scrap	0	0	0	0	0	0	4,719	420
Total finfish	535,378	188,667	831,665	379,852	960,451	448,855	861,836	468,542
Blue crab	102,750	25,810	9,307	2,136	50,498	10,907	17,448	7,821
Oyster meat	0	0	0	0	0	0	0	0
Shrimp (Heads on):								
Brown and pink	738,572	301,665	910,075	395,436	1,166,697	1,040,520	1,469,014	1,199,080
White	567,956	442,067	521,680	692,600	1,052,891	1,646,614	400,763	592,844
Other shrimp	0	0	0	0	0	0	0	0
Squid (bait)	0	0	0	0	116	23	0	0
Total shellfish	1,409,278	769,542	1,441,062	1,090,172	2,270,202	2,698,064	1,887,225	1,799,745
Grand total	1,944,656	957,949	2,272,727	1,470,024	3,230,653	3,146,919	2,749,061	2,268,287

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

Table 8. Weight (lb) and the ex-vessel value (\$) of commercial landings in upper Laguna Madre during calendar years 1977-1980. Data based on MMRP.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	145,249	85,709	79,963	64,187	81,511	73,775	243,167	218,638
Spotted seatrout	175,318	100,927	123,052	98,933	138,414	130,146	202,999	192,549
Black drum	519,296	165,429	558,383	229,320	562,558	244,455	512,336	265,977
Sand seatrout	0	0	0	0	1,310	1,219	257	54
Flounder	5,205	3,278	4,166	3,434	3,362	3,313	8,559	6,424
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	104	10	253	42	655	130	2,079	320
Gafftopsail catfish	23	3	2	0	65	12	409	97
Sheepshead	41,537	3,130	24,681	2,832	31,619	5,234	46,722	7,907
Mullet	495	50	2,337	210	0	0	0	0
Pompano	180	111	131	116	958	996	92	84
Unclassified food	32	8	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0
Total finfish	887,439	358,655	792,968	399,074	820,452	459,280	1,016,620	692,050
Blue crab	126,811	28,855	159,517	45,691	26,911	6,836	6,688	2,704
Oyster meat	0	0	0	0	0	0	0	0
Shrimp (Heads on):								
Brown and pink	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0
Total shellfish	126,811	28,855	159,517	45,691	26,911	6,836	6,688	2,704
Grand total	1,014,250	387,510	952,485	444,765	847,363	466,116	1,023,308	694,754

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

Table 9. Weight (lb) and the ex-vessel value (\$) of commercial landings in lower Laguna Madre during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	394,112	187,048	455,182	285,511	371,724	286,657	444,619	388,601
Spotted seatrout	484,696	234,299	299,160	196,203	329,379	271,075	268,130	254,905
Black drum	378,258	84,443	492,760	125,476	434,749	141,050	210,016	98,202
Sand seatrout	0	0	0	0	4,610	4,380	295	53
Flounder	35,255	16,294	12,552	7,678	32,867	27,732	11,334	8,799
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	17,121	1,056	5,004	502	2,356	269	1,194	81
Gafftopsail catfish	147	30	4,928	2,918	190	38	0	0
Sheepshead	27,603	2,138	60,371	6,517	45,826	4,958	82,148	8,571
Mullet	0	0	824	49	0	0	269	13
Pompano	116	50	90	85	713	1,207	200	327
Unclassified food	836	93	3,555	546	2,731	413	1,333	239
Unclassified scrap	22,071	5,518	2,322	235	170	15	381	41
Total finfish	1,360,215	530,969	1,336,748	625,720	1,225,315	737,794	1,019,919	759,832
Blue crab	975,244	239,526	196,070	50,571	122,279	30,801	518,342	130,942
Oyster meat	9,066	8,957	3,071	4,010	1,963	2,235	15,494	23,234
Shrimp (Heads on):								
Brown and pink	0	0	0	0	0	0	0	0
White	0	0	0	0	0	0	0	0
Other shrimp	0	0	0	0	0	0	0	0
Squid (bait)	0	0	64	10	0	0	0	0
Total shellfish	984,310	248,483	199,205	54,591	124,242	33,036	533,836	154,176
Grand total	2,344,525	779,452	1,535,953	680,311	1,349,557	770,830	1,553,755	914,008

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

Appendix C. Weight (lb) and the ex-vessel value (\$) of commercial landings in Texas territorial waters of the Gulf of Mexico during calendar years 1977-1980.

Table 1. Weight (lb) and the ex-vessel value (\$) of commercial landings in Gulf of Mexico area grid code 17.0 during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	2,459	1,310	491	209	77	40	243	161
Spotted seatrout	1,405	720	262	114	3,200	3,903	69	36
Black drum	5,810	1,558	20,455	4,091	114	23	113	16
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	2,888	1,529	2,539	1,222	1,176	622	3,619	2,242
Whiting	4,805	966	2,128	346	418	66	3,668	463
Atlantic croaker	386	93	0	0	0	0	352	36
Gafftopsail catfish	50	10	112	20	77	15	0	0
Sheepshead	1,615	331	143	17	587	139	471	53
Mullet	0	0	0	0	0	0	0	0
Pompano	0	0	26	4	0	0	0	0
Unclassified food	0	0	461	108	0	0	71	18
Unclassified scrap	0	0	0	0	0	0	276	42
Cobia	200	50	0	0	0	0	0	0
Grouper	629	159	0	0	0	0	582	262
Snapper	36,211	32,954	1,546	1,725	3,222	4,280	825	1,170
Total finfish	56,458	39,680	28,163	7,886	8,871	9,088	10,289	4,499
Blue crab	0	0	1,268	159	100	30	3,149	694
Squid (bait)	0	0	13	3	0	0	0	0

Table 2. Weight (lb) and the ex-vessel value (\$) of commercial landings in Gulf of Mexico area grid code 18.0 during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	37,530	21,052	4,956	2,970	4,657	3,655	4,649	5,267
Spotted seatrout	103,973	58,570	40,405	27,187	85,963	76,176	38,877	40,967
Black drum	28,861	6,144	4,955	1,097	14,324	5,222	7,181	1,630
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	55,084	28,295	32,429	18,078	20,653	13,949	35,081	24,689
Whiting	20,513	3,021	16,089	2,121	6,038	897	9,424	1,752
Atlantic croaker	2,266	515	5,390	1,060	3,742	626	13	3
Gafftopsail catfish	10,128	1,727	1,634	380	331	79	434	129
Sheepshead	24,444	4,441	8,924	1,412	17,147	3,083	4,856	1,057
Mullet	535	120	1,340	536	2,753	444	1,076	163
Pompano	0	0	81	65	128	143	576	784
Unclassified food	53,797	10,640	18,781	4,720	25,831	7,984	10,763	4,373
Unclassified scrap	38,794	4,450	35,905	3,639	62,236	7,474	8,546	615
Cobia	13,865	3,485	10,124	3,380	5,629	2,362	1,700	880
Grouper	7,874	1,852	17,470	4,370	7,020	2,840	13,957	5,507
Snapper	96,686	85,366	100,449	94,228	62,133	74,384	58,750	78,035
Menhaden	70	14	0	0	0	0	0	0
Mackerel	175	10	0	0	0	0	0	0
Total finfish	494,420	229,692	298,932	165,063	318,760	199,528	195,883	165,851
Blue crab	11,038	2,199	502	92	417	146	485	118
Squid (bait)	7,813	2,222	11,164	3,190	577	179	0	0

Table 3. Weight (lb) and the ex-vessel value (\$) of commercial landings in Gulf of Mexico area grid code 19.0 during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	7,460	4,048	2,018	1,341	8,394	6,459	2,771	2,583
Spotted seatrout	6,429	3,697	2,794	2,094	41,813	32,342	10,790	9,437
Black drum	10,039	1,952	4,464	1,021	8,555	2,992	591	382
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	33,124	16,543	6,646	3,451	1,208	658	2,265	1,998
Whiting	1,050	109	1,101	165	2,174	227	187	47
Atlantic croaker	0	0	59	6	0	0	2,358	167
Gafftopsail catfish	3,142	2,546	211	47	29	5	0	0
Sheepshead	1,953	341	663	34	1,969	289	1,700	243
Mullet	239	27	577	76	26,066	2,002	3,330	500
Pompano	452	299	66	61	153	158	89	117
Unclassified food	1,860	361	657	169	3,392	677	986	737
Unclassified scrap	4,164	416	237	12	0	0	10	2
Cobia	4,142	982	3,236	920	2,045	461	540	259
Grouper	3,538	1,072	10,972	2,174	2,698	745	5,214	2,418
Snapper	57,780	39,627	69,671	63,698	41,243	43,733	70,449	114,454
Total finfish	135,372	72,020	103,372	75,269	139,739	90,748	101,280	133,344
Blue crab	137	29	0	0	0	0	0	0
Squid (bait)	532	113	50	13	0	0	0	0

Table 4. Weight (lb) and the ex-vessel value (\$) of commercial landings in Gulf of Mexico area grid code 20.0 during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	319	160	0	0	0	0	0	0
Spotted seatrout	18	13	0	0	0	0	0	0
Black drum	116	35	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	298	149	0	0	0	0	0	0
Whiting	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0
Gafftopsail catfish	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	0	0	0	0	0
Mullet	100	5	0	0	0	0	0	0
Pompano	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0
Cobia	0	0	0	0	0	0	0	0
Grouper	0	0	0	0	0	0	0	0
Snapper	0	0	0	0	0	0	0	0
Total finfish	851	362	0	0	0	0	0	0
Blue crab	0	0	0	0	0	0	0	0
Squid (bait)	0	0	0	0	0	0	0	0

Table 5. Weight (lb) and the ex-vessel value (\$) of commercial landings in Gulf of Mexico area grid code 21.0 during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Red drum	3,216	1,034	97	39	0	0	430	258
Spotted seatrout	0	0	0	0	0	0	0	0
Black drum	17,966	2,270	3,326	596	3,659	549	3,357	1,018
Sand seatrout	0	0	0	0	0	0	0	0
Flounder	9,091	2,647	2,856	1,262	2,651	1,245	4,134	2,260
Whiting	412	59	438	43	170	9	33	15
Atlantic croaker	163	24	4,721	472	0	0	0	0
Gafftopsail catfish	36	7	25,144	12,227	0	0	0	0
Sheepshead	5,909	430	1,129	169	2,935	294	64	10
Mullet	0	0	26,351	1,917	0	0	0	0
Pompano	29	20	296	448	1,205	2,049	126	196
Unclassified food	16,379	1,753	7,470	829	1,766	690	279	42
Unclassified scrap	0	0	0	0	341	34	0	0
Cobia	1,775	197	339	119	0	0	0	0
Grouper	9,673	2,014	11,467	3,217	4,582	3,111	3,335	1,549
Snapper	248,811	262,676	216,627	243,850	108,134	139,154	101,584	157,616
Total finfish	313,460	273,131	300,261	265,188	125,443	147,135	113,342	162,964
Blue crab	0	0	0	0	0	0	0	0
Squid (bait)	179	37	0	0	0	0	0	0

Table 6. Weight (lb x 1000) and the ex-vessel value (\$ x 1000) of shrimp landings in the Gulf of Mexico during calendar years 1977-1980. Data based on MMPR.

Species	1977		1978		1979		1980	
	Weight	Value	Weight	Value	Weight	Value	Weight	Value
Shrimp (Heads on):								
Brown and pink	67,186.4	97,992.2	57,240.3	99,880.9	43,265.0	111,142.2	50,300.6	107,142.1
White	10,028.8	16,356.9	13,171.5	28,144.5	8,446.5	23,575.6	7,422.1	15,570.3
Other shrimp	258.7	234.9	332.3	344.5	719.2	381.1	1,325.6	431.8
Total	77,473.9	114,584.0	70,744.1	128,369.9	52,430.7	135,098.9	59,048.3	123,144.2

NOTES: 1) Gulf of Mexico shrimp landings at Texas ports as reported to TPWD by the Division of Statistics-Market News, Galveston and listed in Texas Landings may include harvest of shrimp from the waters of Florida, 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 Gulf of Mexico off Texas; 2) Shrimp landings as furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary. Upon receipt of accurate landings from NMFS the Texas Landings will be revised to reflect the correct Texas shrimp landings.

Appendix D. Total monthly commercial finfish and shellfish landings (lb)
from Texas bays during September-December 1980.

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	156,742	145,519	132,546	138,844
Spotted seatrout	78,082	63,449	66,126	84,500
Black drum	56,947	69,173	71,832	102,195
Sand seatrout	193	787	198	603
Flounder	6,482	19,171	56,836	32,295
Whiting	27	90	56	147
Atlantic croaker	2,606	5,376	67	106
Gafftopsail catfish	200	149	0	0
Sheepshead	8,679	17,613	25,225	23,005
Mullet	896	202	264	48,649
Pompano	192	24	84	16
Unclassified food	5,216	6,072	2,806	836
Unclassified scrap	833	1,840	84	0
Total finfish	317,095	329,465	356,124	431,196
Blue crab	1,060,747	837,343	378,825	359,022
Oyster meat	59,575	59,669	215,116	203,735
Shrimp (Heads on):				
Brown and pink	308,456	282,892	11,043	1,587
White	1,727,680	2,078,042	1,078,382	117,905
Other shrimp	0	4,668	0	0
Total shellfish	3,156,458	3,262,614	1,683,366	682,249
Grand total	3,473,553	3,592,079	2,039,490	1,113,445

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

Appendix E. Total monthly commercial finfish and shellfish landings (lb) from Texas territorial waters in the Gulf of Mexico during September-December 1980.

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	655	642	470
Spotted seatrout	4,492	786	123	23
Black drum	484	1,675	2,431	4,698
Sand seatrout	0	0	0	0
Flounder	4,697	1,795	16,995	10,663
Whiting	1,757	2,091	2,718	1,369
Atlantic croaker	0	2,369	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	319	369	1,221	296
Mullet	0	89	3,330	0
Pompano	0	99	0	5
Unclassified food	56	29	0	274
Unclassified scrap	4,838	112	0	130
Cobia	593	201	368	178
Grouper	828	103	1,221	3,082
Snapper	54,549	21,278	21,741	26,386
Total finfish	72,613	31,651	50,790	47,574
Blue crab	0	0	426	103
Shrimp (Heads on):				
Brown and pink	10,504,358	7,425,725	3,514,777	2,749,623
White	780,043	1,776,385	1,637,307	748,096
Other shrimp	2,356	250,753	436,618	322,363
Total shellfish	11,286,757	9,452,863	5,589,128	3,820,185
Grand total	11,359,370	9,484,514	5,639,918	3,867,759

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

Appendix F. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from Texas bays during September-December 1980.

Table 1. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from Texas bays during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	152,349	136,733	89,688	94,025
Spotted seatrout	82,834	62,568	52,410	65,558
Black drum	30,143	37,111	36,798	50,395
Sand seatrout	39	163	40	332
Flounder	7,189	18,819	38,724	21,974
Whiting	4	14	8	7
Atlantic croaker	482	426	9	18
Gafftopsail catfish	45	40	0	0
Sheepshead	1,827	3,592	4,466	3,705
Mullet	315	59	41	2,433
Pompano	289	24	98	27
Unclassified food	1,277	2,172	977	209
Unclassified scrap	157	188	19	0
Total finfish	276,950	261,909	223,278	238,683
Blue crab	299,204	219,580	98,171	96,653
Oyster meat	102,120	98,223	348,860	326,777
Shrimp (Heads on):				
Brown and pink	265,280	260,841	11,003	1,682
White	3,130,941	2,755,143	998,806	95,984
Other shrimp	0	1,354	0	0
Total shellfish	3,797,545	3,335,141	1,456,840	521,096
Grand total	4,074,495	3,597,050	1,680,118	759,779

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

Appendix G. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from Texas territorial waters in the Gulf of Mexico during September-December 1980.

Table 1. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from in Texas territorial waters in the Gulf of Mexico during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	611	412	440
Spotted seatrout	4,488	685	101	22
Black drum	97	457	625	1,290
Sand seatrout	0	0	0	0
Flounder	3,279	1,690	11,664	5,801
Whiting	397	425	382	223
Atlantic croaker	0	169	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	78	74	201	59
Mullet	0	22	500	0
Pompano	0	155	0	9
Unclassified food	14	7	0	96
Unclassified scrap	247	17	0	20
Cobia	332	103	213	96
Grouper	403	46	609	1,246
Snapper	86,358	31,745	33,382	38,841
Total finfish	95,693	36,206	48,089	48,143
Blue crab	0	0	149	36
Shrimp (Heads on):				
Brown and pink	22,759,964	15,858,903	7,305,784	6,584,696
White	1,650,368	3,766,835	2,963,065	1,476,539
Other shrimp	942	72,718	109,155	82,694
Total shellfish	24,411,274	19,698,456	10,378,153	8,143,965
Grand total	24,506,967	19,734,662	10,426,242	8,192,108

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

Appendix H. Weight (lb) of commercial finfish and shellfish landings from Texas bays during September-December 1980.

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	81	263	284	14
Spotted seatrout	0	0	32	0
Black drum	0	11	25	0
Sand seatrout	0	0	0	0
Flounder	0	0	0	0
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	113	0
Mullet	45	10	0	0
Pompano	0	0	0	0
Unclassified food	0	0	50	0
Unclassified scrap	0	10	0	0
Total finfish	126	294	504	14
Blue crab	732	4,025	768	1,050
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	272	0	0	0
White	7,692	18,222	17,659	2,970
Other shrimp	0	4,668	0	0
Total shellfish	8,696	26,915	18,427	4,020
Grand total	8,822	27,209	18,931	4,034

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

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	807	3,453	1,784	2,222
Spotted seatrout	3,860	11,663	2,281	5,728
Black drum	649	3,963	493	8,241
Sand seatrout	189	674	108	405
Flounder	1,296	10,226	7,735	854
Whiting	27	90	56	147
Atlantic croaker	1,228	106	0	0
Gafftopsail catfish	173	124	0	0
Sheepshead	3,098	10,107	5,155	2,029
Mullet	851	191	264	0
Pompano	0	0	0	0
Unclassified food	4,918	5,589	2,753	836
Unclassified scrap	564	1,657	74	0
Total finfish	17,660	47,843	20,703	20,462
Blue crab	485,463	165,683	16,875	4,754
Oyster meat	59,575	59,669	176,859	96,371
Shrimp (Heads on):				
Brown and pink	11,173	109	0	0
White	822,121	889,844	739,857	84,289
Other shrimp	0	0	0	0
Total shellfish	1,378,332	1,115,305	933,591	185,414
Grand total	1,395,992	1,163,148	954,294	205,876

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

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	853	1,306	2,283	4,132
Spotted seatrout	592	628	926	4,068
Black drum	577	341	1,106	2,665
Sand seatrout	0	0	0	21
Flounder	820	106	1,191	388
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	65	0	136	48
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	131	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	3,038	2,381	5,642	11,322
Blue crab	20,598	14,753	6,905	7,695
Oyster meat	0	0	6,253	40,652
Shrimp (Heads on):				
Brown and pink	16,470	11,860	0	0
White	446,316	472,461	198,458	17,319
Other shrimp	0	0	0	0
Total shellfish	483,384	499,074	211,616	65,666
Grand total	486,422	501,455	217,258	76,988

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

Table 4. Total monthly commercial finfish and shellfish landings (lb) from the East Matagorda Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	842	814	370	768
Spotted seatrout	2,874	1,334	3,213	6,399
Black drum	466	502	278	255
Sand seatrout	0	0	0	0
Flounder	113	52	55	22
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	0	0
Mullet	0	1	0	0
Pompano	0	0	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	4,295	2,703	3,916	7,444
Blue crab	28,338	113,588	56,806	58,265
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	0	0	0	0
White	0	0	198,458	0
Other shrimp	0	0	0	0
Total shellfish	28,338	113,588	56,806	58,265
Grand total	32,633	116,291	60,722	65,709

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

Table 5. Total monthly commercial finfish and shellfish landings (lb) from the San Antonio Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	14,223	14,046	16,659	33,346
Spotted seatrout	1,155	2,421	5,120	12,893
Black drum	2,178	2,143	2,884	4,977
Sand seatrout	0	0	0	0
Flounder	1,549	1,113	2,276	1,663
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	425	660	809	272
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	19,530	20,383	27,748	53,151
Blue crab	258,197	219,671	183,470	194,217
Oyster meat	0	0	31,882	64,921
Shrimp (Heads on):				
Brown and pink	41,674	237,006	0	0
White	174,076	115,858	66,546	10,504
Other shrimp	0	0	0	0
Total shellfish	473,947	572,535	281,898	269,642
Grand total	493,477	592,918	309,646	322,793

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

Table 6. Total monthly commercial finfish and shellfish landings (lb) from the Aransas Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	23,572	18,157	22,986	9,236
Spotted seatrout	4,428	5,268	6,281	3,009
Black drum	4,003	5,703	3,854	3,395
Sand seatrout	0	0	88	0
Flounder	976	3,348	30,319	15,211
Whiting	0	0	0	0
Atlantic croaker	0	18	0	0
Gafftopsail catfish	21	20	0	0
Sheepshead	261	346	3,036	725
Mullet	0	0	0	14,519
Pompano	3	3	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	173	0	0
Total finfish	33,264	33,033	66,564	46,095
Blue crab	266,571	263,536	72,132	35,133
Oyster meat	0	0	122	1,791
Shrimp (Heads on):				
Brown and pink	89,941	15,763	940	0
White	192,783	395,393	36,477	2,283
Other shrimp	0	0	0	0
Total shellfish	549,295	674,692	109,671	39,207
Grand total	582,559	707,725	176,235	85,302

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

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	13,469	11,941	12,939	6,986
Spotted seatrout	14,497	10,030	7,056	5,134
Black drum	5,880	6,644	7,128	10,526
Sand seatrout	0	0	0	0
Flounder	1,449	2,911	10,700	6,090
Whiting	0	0	0	0
Atlantic croaker	617	4,355	40	0
Gafftopsail catfish	6	5	0	0
Sheepshead	3,772	2,759	4,727	3,013
Mullet	0	0	0	34,130
Pompano	29	0	8	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	10	0
Total finfish	39,719	38,645	42,608	65,879
Blue crab	848	898	841	0
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	148,926	18,154	10,103	1,587
White	84,692	186,264	19,385	540
Other shrimp	0	0	0	0
Total shellfish	234,466	205,316	30,329	2,127
Grand total	274,185	243,961	72,937	68,006

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

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	36,293	39,791	37,407	38,745
Spotted seatrout	36,830	18,325	23,537	26,001
Black drum	32,940	36,019	42,286	52,383
Sand seatrout	4	113	2	1
Flounder	222	1,030	4,080	1,797
Whiting	0	0	0	0
Atlantic croaker	714	708	23	92
Gafftopsail catfish	0	0	0	0
Sheepshead	1,016	2,984	9,933	10,598
Mullet	0	0	0	0
Pompano	32	20	40	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	108,051	98,900	117,308	129,617
Blue crab	0	0	0	0
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	0	0	0	0
White	0	0	0	0
Other shrimp	0	0	0	0
Total shellfish	0	0	0	0
Grand total	108,051	98,900	117,308	129,617

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

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

Species	Sept.	Oct.	Nov.	Dec.
Red drum	66,602	55,748	37,834	43,395
Spotted seatrout	13,8456	13,870	17,680	21,268
Black drum	10,254	13,847	13,778	19,753
Sand seatrout	0	0	0	176
Flounder	57	385	480	6,270
Whiting	0	0	0	0
Atlantic croaker	47	189	4	14
Gafftopsail catfish	0	0	0	0
Sheepshead	42	757	1,316	6,320
Mullet	0	0	0	0
Pompano	128	4	36	16
Unclassified food	167	483	3	0
Unclassified scrap	269	0	0	0
Total finfish	91,412	85,283	71,131	97,212
Blue crab	0	55,189	41,028	57,908
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	0	0	0	0
White	0	0	0	0
Other shrimp	0	0	0	0
Total shellfish	0	55,189	41,028	57,908
Grand total	91,412	140,472	112,159	155,120

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

Appendix I. Weight (lb) of commercial finfish and shellfish landings from Texas territorial waters in the Gulf of Mexico during September-December 1980.

Table 1. Total monthly commercial finfish and shellfish landings (lb) from the Gulf of Mexico grid area 17.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	63	0	15
Spotted seatrout	6	0	0	0
Black drum	0	0	0	16
Sand seatrout	0	0	0	0
Flounder	416	19	861	245
Whiting	712	71	514	555
Atlantic croaker	0	11	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	28	16	0	0
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	42	29	0	0
Unclassified scrap	34	112	0	130
Cobia	0	0	0	0
Grouper	326	0	0	0
Snapper	0	0	0	0
Total finfish	1,564	321	1,375	961
Blue crab	0	0	426	103
Total shellfish	0	0	426	103
Grand total	1,564	321	1,801	1,064

NOTE: Shrimp landings from Gulf of Mexico by grid areas not available.

Table 2. Total monthly commercial finfish and shellfish landings (lb) from the Gulf of Mexico grid area 18.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	0	0	455
Spotted seatrout	4,402	0	0	23
Black drum	484	1,561	1,898	1,398
Sand seatrout	0	0	0	0
Flounder	3,939	982	14,337	8,941
Whiting	1,045	2,020	2,204	814
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	291	0	808	296
Mullet	0	89	0	0
Pompano	0	22	0	0
Unclassified food	0	0	0	0
Unclassified scrap	4,794	0	0	0
Cobia	459	174	297	161
Grouper	321	103	709	107
Snapper	6,169	6,111	5,619	6,904
Total finfish	21,904	11,062	25,872	19,099
Blue crab	0	0	0	0
Total shellfish	0	0	0	0
Grand total	21,904	11,062	25,872	19,099

NOTE: Shrimp landings from Gulf of Mexico by grid areas not available.

Table 3. Total monthly commercial finfish and shellfish landings (lb) from the Gulf of Mexico grid area 19.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	592	212	0
Spotted seatrout	84	786	123	0
Black drum	0	114	460	0
Sand seatrout	0	0	0	0
Flounder	228	717	29	246
Whiting	0	0	0	0
Atlantic croaker	0	2,358	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	353	349	0
Mullet	0	0	3,330	0
Pompano	0	16	0	0
Unclassified food	14	0	0	274
Unclassified scrap	10	0	0	0
Cobia	134	27	71	17
Grouper	0	0	0	1,771
Snapper	25,708	2,480	6,491	7,599
Total finfish	26,178	7,443	11,065	9,907
Blue crab	0	0	0	0
Total shellfish	0	0	0	0
Grand total	26,178	7,443	11,065	9,907

NOTE: Shrimp landings from Gulf of Mexico by grid areas not available.

Table 4. Total monthly commercial finfish and shellfish landings (lb) from the Gulf of Mexico grid area 21.0 during September-December 1980. Data based on MMRP.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	0	430	0
Spotted seatrout	0	0	0	0
Black drum	0	0	73	3,284
Sand seatrout	0	0	0	0
Flounder	114	77	1,768	1,231
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	64	0
Mullet	0	0	0	0
Pompano	0	61	0	5
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Cobia	0	0	0	0
Grouper	181	0	512	1,204
Snapper	22,672	12,687	9,631	11,883
Total finfish	22,967	12,825	12,478	17,607
Total shellfish	0	0	0	0
Grand total	22,967	12,825	12,478	17,607

NOTE: Shrimp landings from Gulf of Mexico by grid areas not available.

Table 5. Total weight (lb x 1000) of shrimp landed in the Gulf of Mexico during September-December 1980. Data based on MMPR.

(X1000)				
Species	Sept.	Oct.	Nov.	Dec.
Shrimp (Heads on):				
Brown and pink	10,504.4	7,425.7	3,514.8	2,749.6
White	780.0	1,776.4	1,637.3	748.1
Other shrimp	2.4	250.8	436.6	322.4
Total	11,286.8	9,452.9	5,588.7	3,820.1

- NOTE:
1. Shrimp landings from the Gulf of Mexico by grid areas are not available.
 2. Shrimp landings as furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary.

Appendix J. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Texas bays during September-December 1980.

Table 1. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Sabine Lake during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	65	210	216	11
Spotted seatrout	0	0	19	0
Black drum	0	5	14	0
Sand seatrout	0	0	0	0
Flounder	0	0	0	0
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	28	0
Mullet	23	5	0	0
Pompano	0	0	0	0
Unclassified food	0	0	20	0
Unclassified scrap	0	3	0	0
Total finfish	88	223	297	11
Blue crab	220	1,693	296	473
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	261	0	0	0
White	8,077	14,578	9,889	1,752
Other shrimp	0	1,354	0	0
Total shellfish	8,558	17,625	10,185	2,225
Grand total	8,646	17,848	10,482	2,236

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

Table 2. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Galveston Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	982	3,357	1,839	1,840
Spotted seatrout	4,471	9,471	2,186	5,479
Black drum	234	1,525	273	3,298
Sand seatrout	38	135	22	301
Flounder	1,361	9,745	5,630	826
Whiting	4	14	8	7
Atlantic croaker	255	22	0	0
Gafftopsail catfish	36	32	0	0
Sheepshead	664	2,560	1,093	423
Mullet	292	191	41	0
Pompano	0	0	0	0
Unclassified food	1,210	2,107	956	209
Unclassified scrap	130	168	18	0
Total finfish	9,677	29,190	12,066	12,383
Blue crab	146,084	43,463	4,373	1,319
Oyster meat	102,120	98,223	291,166	157,410
Shrimp (Heads on):				
Brown and pink	10,950	102	0	75,861
White	1,345,967	1,025,409	647,142	0
Other shrimp	0	0	0	0
Total shellfish	1,605,121	1,167,197	942,681	234,590
Grand total	1,614,798	1,196,387	954,747	246,973

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

Table 3. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Matagorda Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	929	1,369	2,414	3,644
Spotted seatrout	668	659	838	4,593
Black drum	260	153	636	1,320
Sand seatrout	0	0	0	5
Flounder	895	111	1,276	369
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	13	0	48	17
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	33	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	2,798	2,292	5,212	8,948
Blue crab	5,355	3,836	1,726	2,228
Oyster meat	0	0	10,338	68,990
Shrimp (Heads on):				
Brown and pink	13,340	15,735	0	0
White	908,788	781,195	209,896	8,920
Other shrimp	0	0	0	0
Total shellfish	927,483	800,766	221,960	80,138
Grand total	930,281	803,058	227,172	89,086

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

Table 4. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the East Matagorda system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	884	855	333	691
Spotted seatrout	3,018	1,401	2,892	5,759
Black drum	210	226	111	102
Sand seatrout	0	0	0	0
Flounder	119	55	50	20
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	0	0
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	4,231	2,537	3,386	6,572
Blue crab	7,368	27,905	14,202	14,860
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	0	0	0	0
White	0	0	0	0
Other shrimp	0	0	0	0
Total shellfish	7,368	27,905	14,202	14,860
Grand total	11,599	30,442	17,588	21,432

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

Table 5. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the San Antonio Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	16,356	16,156	12,070	23,444
Spotted seatrout	1,329	2,784	4,657	10,577
Black drum	1,032	944	1,417	2,465
Sand seatrout	0	0	0	0
Flounder	1,714	1,201	1,905	1,225
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	85	99	283	76
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	20,516	21,184	20,332	37,787
Blue crab	63,534	54,082	45,869	52,053
Oyster meat	0	0	47,212	97,317
Shrimp (Heads on):				
Brown and pink	33,756	213,305	0	0
White	320,300	144,823	67,877	5,882
Other shrimp	0	0	0	0
Total shellfish	417,590	412,210	160,958	155,252
Grand total	438,106	433,394	181,290	193,039

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

Table 6. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Aransas Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	25,369	16,992	19,043	6,946
Spotted seatrout	4,931	5,089	5,557	2,273
Black drum	2,071	3,233	1,842	1,564
Sand seatrout	0	0	18	0
Flounder	1,079	3,141	19,973	10,839
Whiting	0	0	0	0
Atlantic croaker	0	4	0	0
Gafftopsail catfish	7	7	0	0
Sheepshead	62	53	468	105
Mullet	0	0	0	726
Pompano	5	0	0	0
Unclassified food	0	0	0	0
Unclassified scrap	0	17	0	0
Total finfish	33,524	28,536	46,901	22,453
Blue crab	76,219	74,355	21,027	11,243
Oyster meat	0	0	144	3,060
Shrimp (Heads on):				
Brown and pink	86,343	14,187	912	0
White	93,277	521,919	38,666	2,991
Other shrimp	0	0	0	0
Total shellfish	555,839	610,461	60,749	17,294
Grand total	589,363	638,997	107,650	39,747

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

Table 7. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Corpus Christi Bay system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	14,017	12,212	9,405	4,518
Spotted seatrout	16,088	10,884	5,842	3,620
Black drum	3,639	4,097	4,094	5,575
Sand seatrout	0	0	0	0
Flounder	1,710	3,175	7,084	3,558
Whiting	0	0	0	0
Atlantic croaker	93	274	6	0
Gafftopsail catfish	2	1	0	0
Sheepshead	799	359	834	171
Mullet	0	0	0	1,707
Pompano	35	0	6	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	1	0
Total finfish	36,383	31,002	27,272	19,149
Blue crab	424	449	421	0
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	120,630	17,512	10,091	1,682
White	154,532	267,219	25,336	578
Other shrimp	0	0	0	0
Total shellfish	275,586	285,180	35,848	2,260
Grand total	311,969	316,182	63,120	21,409

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

Table 8. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the upper Laguna Madre system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	37,108	40,458	22,313	24,541
Spotted seatrout	37,369	17,762	18,267	19,988
Black drum	17,049	19,658	22,811	27,335
Sand seatrout	1	28	0	0
Flounder	251	1,033	2,499	1,064
Whiting	0	0	0	0
Atlantic croaker	129	107	3	17
Gafftopsail catfish	0	0	0	0
Sheepshead	199	448	1,543	2,054
Mullet	0	0	0	0
Pompano	32	20	32	0
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Total finfish	92,138	79,514	67,468	74,999
Blue crab	0	0	0	0
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink	0	0	0	0
White	0	0	0	0
Other shrimp	0	0	0	0
Total shellfish	0	0	0	0
Grand total	92,138	79,514	67,468	74,999

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

Table 9. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the lower Laguna Madre system during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	56,639	45,124	22,055	28,390
Spotted seatrout	14,960	14,518	12,152	14,269
Black drum	5,648	7,270	5,600	8,736
Sand seatrout	0	0	0	26
Flounder	60	358	307	4,073
Whiting	0	0	0	0
Atlantic croaker	5	19	0	1
Gafftopsail catfish	0	0	0	0
Sheepshead	5	73	169	859
Mullet	0	0	0	0
Pompano	217	4	60	27
Unclassified food	34	65	1	0
Unclassified scrap	27	0	0	0
Total finfish	77,595	67,431	40,344	56,381
Blue crab	0	13,797	10,257	14,477
Oyster meat	0	0	0	0
Shrimp (Heads on):				
Brown and pink		0	0	0
White		0	0	0
Other shrimp		0	0	0
Total shellfish	0	13,797	10,257	14,477
Grand total	77,595	81,228	50,601	70,858

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

Appendix K. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Gulf of Mexico by grid areas during September-December 1980.

Table 1. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Gulf of Mexico grid area 17.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	35	0	8
Spotted seatrout	3	0	0	0
Black drum	0	0	0	6
Sand seatrout	0	0	0	0
Flounder	228	9	474	134
Whiting	136	14	51	60
Atlantic croaker	0	2	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	7	3	0	0
Mullet	0	0	0	0
Pompano	0	0	0	0
Unclassified food	11	7	0	0
Unclassified scrap	5	17	0	20
Cobia	0	0	0	0
Grouper	147	0	0	0
Snapper	0	0	0	0
Total finfish	537	87	525	228
Blue crab	0	0	149	36
Shrimp (Heads on):				
Brown and pink				
White				
Other shrimp				
Total shellfish	0	0	149	36
Grand total	537	87	674	264

Shrimp landings from the Gulf of Mexico by grid area not available.

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

Table 2. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Gulf of Mexico grid area 18.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	0	0	432
Spotted seatrout	4,384	0	0	22
Black drum	97	390	285	299
Sand seatrout	0	0	0	0
Flounder	2,714	975	10,286	5,026
Whiting	261	411	331	163
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	71	0	121	59
Mullet	0	22	0	0
Pompano	0	36	0	0
Unclassified food	0	0	0	0
Unclassified scrap	240	0	0	0
Cobia	252	87	163	89
Grouper	147	46	384	43
Snapper	6,656	7,407	6,923	8,451
Total finfish	14,822	9,374	18,493	14,584
Blue crab	0	0	0	0
Shrimp (Heads on):				
Brown and pink				
White				
Other shrimp				
Total shellfish	0	0	0	0
Grand total	14,822	9,374	18,493	14,584

Shrimp landings from the Gulf of Mexico by grid area not available.

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

Table 3. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Gulf of Mexico grid area 19.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	576	154	0
Spotted seatrout	101	685	101	0
Black drum	0	67	307	0
Sand seatrout	0	0	0	0
Flounder	217	667	20	148
Whiting	0	0	0	0
Atlantic croaker	0	167	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	71	70	0
Mullet	0	0	500	0
Pompano	0	15	0	0
Unclassified food	3	0	0	96
Unclassified scrap	2	0	0	0
Cobia	80	16	50	7
Grouper	0	0	0	721
Snapper	43,427	4,045	10,253	11,949
Total finfish	43,830	6,309	11,455	12,921
Blue crab	0	0	0	0
Shrimp (Heads on):				
Brown and pink				
White				
Other shrimp				
Total shellfish	0	0	0	0
Grand total	43,830	6,309	11,455	12,921

Shrimp landings from the Gulf of Mexico by grid area not available.

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

Table 4. Monthly ex-vessel value (\$) of commercial finfish and shellfish landings from the Gulf of Mexico grid area 21.0 during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Red drum	0	0	258	985
Spotted seatrout	0	0	0	0
Black drum	0	0	33	0
Sand seatrout	0	0	0	0
Flounder	120	39	884	493
Whiting	0	0	0	0
Atlantic croaker	0	0	0	0
Gafftopsail catfish	0	0	0	0
Sheepshead	0	0	10	0
Mullet	0	0	0	0
Pompano	0	104	0	9
Unclassified food	0	0	0	0
Unclassified scrap	0	0	0	0
Cobia	0	0	0	0
Grouper	109	0	255	482
Snapper	36,275	20,293	16,206	18,441
Total finfish	36,504	20,436	17,616	20,410
Blue crab	0	0	0	0
Shrimp (Heads on):				
Brown and pink				
White				
Other shrimp				
Total shellfish	0	0	0	0
Grand total	36,504	20,436	17,616	20,410

Shrimp landings from the Gulf of Mexico by grid area not available.

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

Table 5. Monthly ex-vessel value (\$ x 1000) of commercial shrimp landings for the Gulf of Mexico during September-December 1980. Data based on MMPR.

Species	Sept.	Oct.	Nov.	Dec.
Shrimp (Heads on):				
Brown and pink	22,760.0	15,858.9	7,305.8	6,584.7
White	1,650.4	3,766.8	2,963.1	1,476.5
Other shrimp	.9	72.7	109.1	82.7
Total shrimp	24,411.3	19,698.4	10,378.0	8,143.9

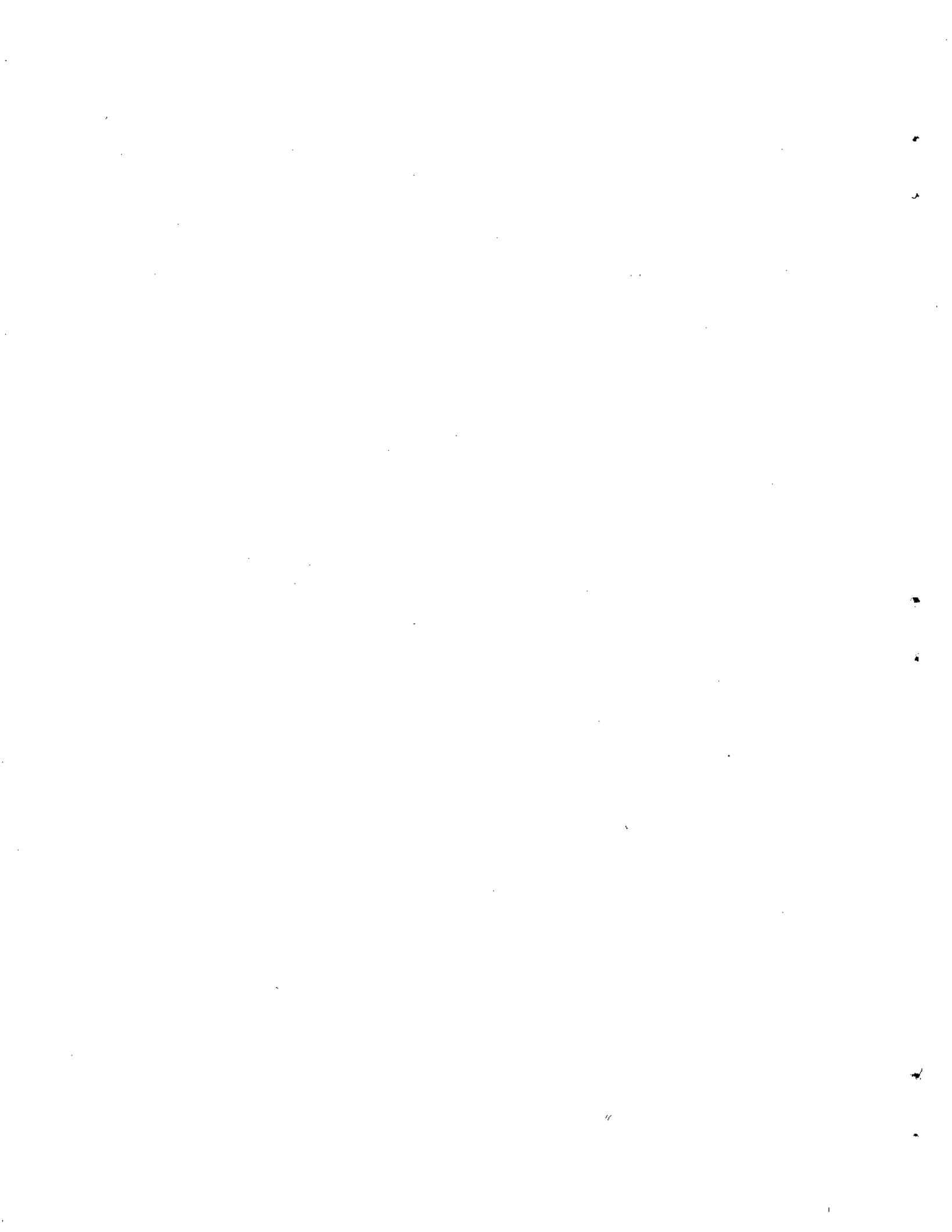
- NOTE:
1. Shrimp landings from the Gulf of Mexico by grid areas are not available.
 2. Shrimp landings as furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary.

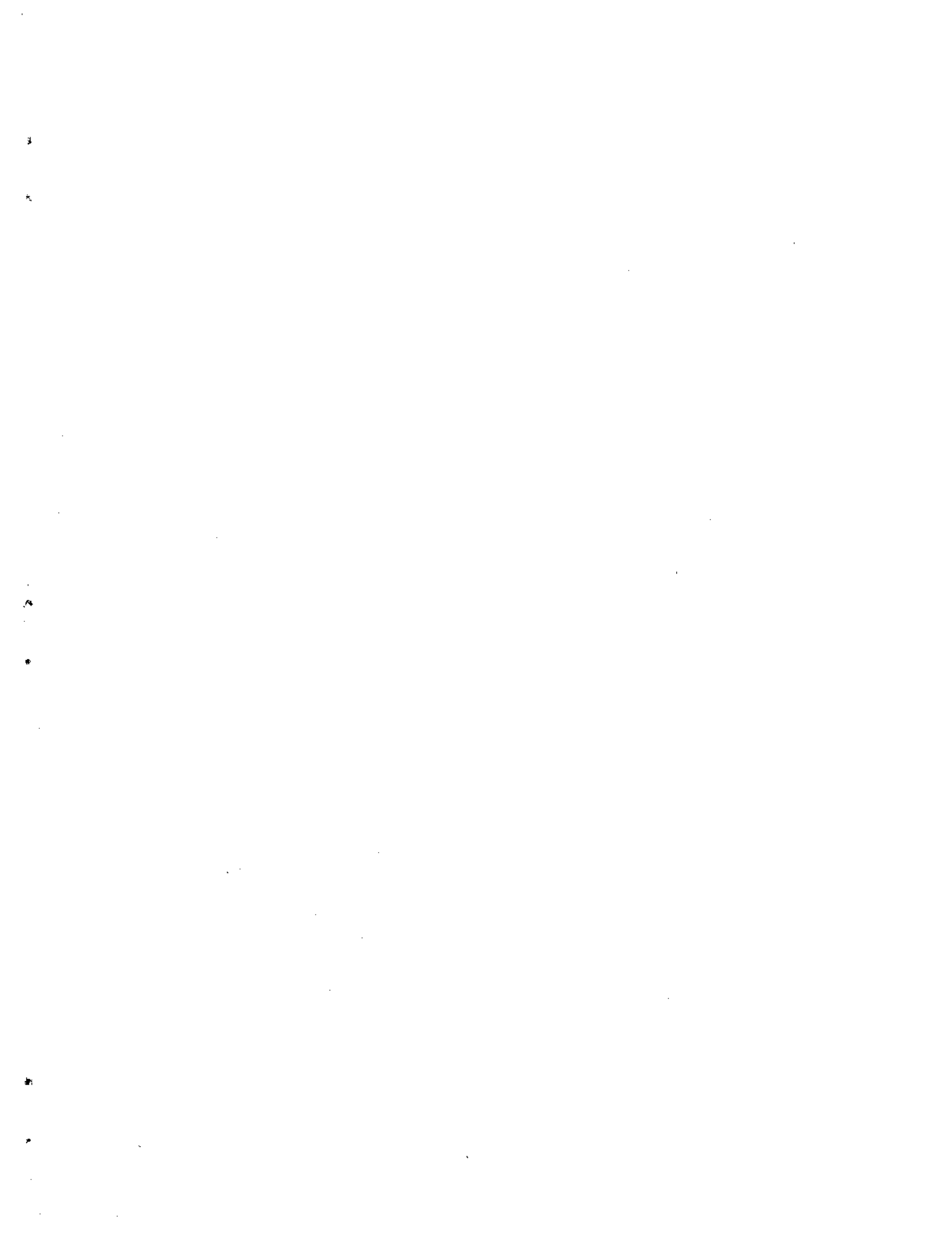
Appendix L. Price/lb (dollars) paid commercial finfish for September-December 1980.

Table 1. Price (\$/lb) paid commercial fishermen for finfish and shellfish during September-December 1980. Data based on MMRP.

Species	Range	Mean
Red drum	0.50 - 1.40	0.82
Spotted seatrout	0.40 - 1.35	0.90
Black drum	0.25 - 0.90	0.51
Flounder	0.30 - 1.30	0.73
Sheepshead	0.05 - 0.35	0.18
Snapper	0.80 - 1.85	1.54
Other finfish	0.05 - 0.80	0.15
Blue crab	0.16 - 0.50	0.27
Oyster meat	1.48 - 1.71	1.60
Shrimp (Heads on):		
Brown and pink	0.50 - 3.11	2.13
White	0.51 - 3.26	1.68
Other shrimp	0.25 - 0.93	0.25

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





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