

TEXAS WATERBORNE COMMERCE  
COMMODITY FLOW STATISTICS

**CIRCULATING COPY**  
**Sea Grant Depository**

Prepared by

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TAMU-SG-73-207

JUNE 1973

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## ABSTRACT

This report presents an analysis of waterborne commerce moving through Texas ports and waterways. The data developed are designed to provide information on the importance of waterborne commerce, especially that moving over the intracoastal and inland waterway system to the economy of Texas.

Intracoastal and Inland Waterway Movements: The role of the intracoastal waterway and the inland waterway network to the overall economic well being of the state has been overlooked in most discussions of waterborne commerce. Of the total tons shipped from locations on the Texas segment of the intracoastal waterway more than half was to destinations outside of Texas. Shipping areas outside Texas originated more than 55 percent of the tonnage terminating within Texas.

The major receiving area for shipments leaving Texas on the waterway is the area between New Orleans and the mouth of the Ohio River which received 26.0 percent of the tonnage. The Ohio, Cumberland, and Tennessee River systems terminated almost 25 percent of the tonnage shipped from Texas. Destinations on the Illinois River and Great Lakes accounted for 18.4 percent of the total shipped from the state.

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## CHAPTER I

## CHAPTER I

### INTRODUCTION

In 1967 almost 74 percent of the intercity commodity tonnage originated by Texas manufacturers moved via water transport. Texas ports and the inland waterway system contiguous to the Texas coast have proved to be of extreme value to the economy of the area and a stimulus to economic activity of the entire state. Through these ports and waterways Texas industry shipped and received over 190 million tons of goods in 1970. This represented 12.6 percent of total activity at all U.S. ports in that year.

Activity at Texas ports is divided between foreign and domestic trade. Domestic movements represent 78.8 percent of the Texas total. Also, Texas coastwise and inland water traffic represent 32.8 and 15.0 percent, respectively, of the U.S. total in these categories. It is obvious that while Texas is heavily engaged in both foreign import and export trade areas the major emphasis is on domestic trade. This implies that the interests of the state rest with both in highly developed domestic inland waterway system and developing deep water ports of the near future.

This report examines the movement of waterborne commerce into and out of Texas and identifies major shipping and receiving regions both within and without the state. Major commodities making up the flows are identified. In addition to emphasizing the far-reaching impact of water transportation on the economy of the state, information in this report can prove valuable in both market development and promotional activities of individual port authorities and governmental agencies.

The statistical appendix of this report contains information on the various ports and waterways of the state for 1965 and 1970. Appendix tables correspond to information compiled by the Corp of Engineers Waterborne Commerce of the United States series. However, commodity descriptions have been combined at the two digit level.

Two time periods, 1965 and 1970, are presented in this report for commodity flow comparisons. While some major changes in commodity flow volumes were identified, there appears to be a high level of consistency between the two time periods.

Texas employment, by Standard Industrial Classification number, was compared with waterborne commerce activity in the state. The results indicate a high degree of correlation between the two ratios. This correlation was relatively stable for the two time periods.

For the purpose of this report the ports and waterways were divided into two groups.

GROUP I	GROUP II
Orange	Anahuac Channel
Beaumont	Trinity River Channel
Port Arthur	Cedar Bayou
Sabine Pass Harbor	Clear Creek
Houston Ship Channel	Dickinson Bayou
Texas City Channel	Chocolate Bayou
Galveston Channel	San Bernard River
Freeport Harbor	Tributary Arroyo Colorado
Matagorda Ship Channel	Channel to Aransas Pass
Channel to Victoria	Channel to Palacios
Harbor Island	Channel to Port Boliver
Corpus Christi	Double Bayou
Port Isabel	Port Mansfield
Brownsville	Rockport
	Bastrop Bayou

The intracoastal canal adjacent to the Texas coast is divided into five segments by the Corp of Engineers and defined as shipping and receiving areas for statistical purposes. These same segments are used in this report when analyzing the commodity flows on the inland system.

#### SHIPPING AND RECEIVING SEGMENTS

Sabine-Neches Waterway  
 Intracoastal Waterway: Sabine River to Galveston  
 Galveston Bay  
 Gulf Intracoastal Waterway: Galveston to Corpus Christi  
 Gulf Intracoastal Waterway: Corpus Christi to Mexican Border

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The Corp of Engineers uses a four digit commodity code in their statistical publications. In this report the commodities are compiled at the two digit level. The following codes and the commodity descriptions used in this report are presented below.

CODE NUMBER	COMMODITY DESCRIPTION
01	Farm Products
08	Forest Products
09	Fresh Fish and Other Marine Products
10	Metallic Ores
11	Coal
13	Crude Petroleum
14	Nonmetallic Minerals, Except Fuels
19	Ordnances and Accessories
20	Food and Kindred Products
21	Tobacco Products
22	Basic Textiles
23	Apparel and Other Finished Textile Products, including knit
24	Lumber and Wood Products, Except Furniture
25	Furniture and Fixtures
26	Pulp, Paper and Allied Products
27	Printed Matter
28	Chemicals and Allied Products

CODE NUMBER	COMMODITY DESCRIPTION
29	Petroleum and Coal Products
30	Rubber and Miscellaneous Plastic Products
31	Leather and Leather Products
32	Stone, Clay, Glass, and Concrete Products
33	Primary Metal Products
34	Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment
35	Machinery, Except Electrical
36	Electrical Machinery, Equipment and Supplies
37	Transportation Equipment
38	Instruments, Photographs and Optical Goods, Watches and Clocks
39	Miscellaneous Products of Manufacturing
40	Waste and Scrap Material
41	Special Items

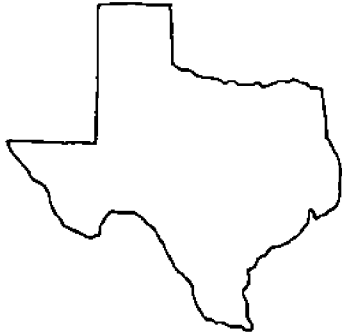
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Texas ports serve three areas of waterborne trade. One of the most important and sometimes overlooked is the domestic trade area contiguous to the nation's inland waterways, especially the region referred to as the "heartland of the nation". Coastwise trade is the second area of waterborne commerce activity at Texas ports. Using ocean-going ships, Texas ports serve traffic between other major ports throughout the nation. The third and perhaps best known and exciting area of waterborne commerce is foreign trade. Ships enter Texas harbors and ports from almost all countries on the globe. Texas commodities and those from other states leave on these same ships for destinations throughout the world. An additional area of waterborne commerce vital to the economy of Texas is traffic which originates and terminates within the state. This segment of total



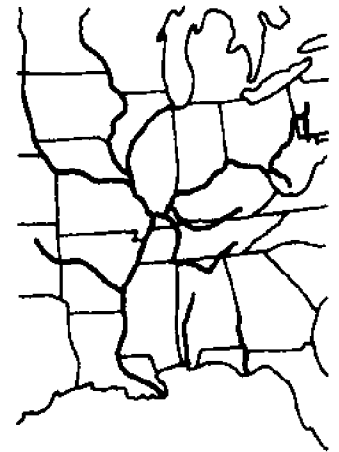
Figure I-1

TEXAS WATERBORNE COMMERCE TRADE AREAS



TEXAS PORTS SERVE:

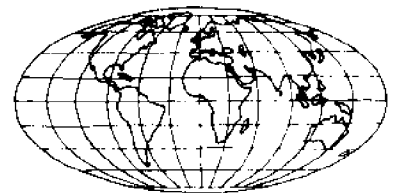
*Texas ports are active participants in both domestic and foreign trade. In the area of domestic trade Texas ports serve the "heartland" of the country through the intracoastal and inland waterway system. Domestic needs of the country are served by coastwise traffic moving goods between Texas and other major ports of the country. Texas ports serve the nation and the world as gateways for significant volume of trade moving in foreign commerce.*



THE HEARTLAND



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THE WORLD

traffic is an impressive and important part of activity on Texas waterways.

It is important to realize the diversity of activities at Texas ports and understand the role of each in the economy of the state. Each activity has special and unique requirements which must be met for orderly growth. There is also a relationship between the activities which must be maintained. Anything affecting the performance in one area will undoubtedly impact the other waterborne activities as well as the economy of the state.

In the following sections the various types of commerce are: foreign imports and exports, domestic coastwise receipts and shipments, and internal receipts and shipments. Foreign refers to waterborne commerce between Texas and a foreign port. Coastwise traffic is movement between Texas ports and other U. S. ports where an ocean-going vessel is used. Internal trade refers to movements over the intracoastal and inland waterway networks.

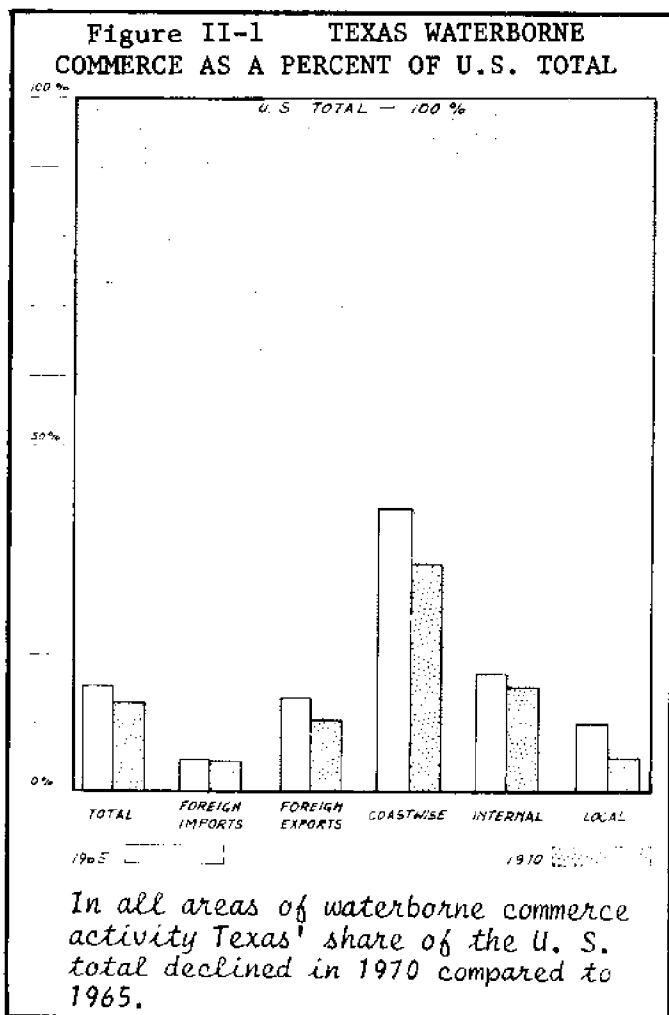
## CHAPTER II

## CHAPTER II

### TEXAS PORT ACTIVITY

Ports and waterways on the Texas coast constitute a major transportation facility of the state. The activity at and on these facilities contributes significantly to the economic vitality of the entire state. Commodities move into and out of the area from and to domestic and foreign destinations. The types of commodities and their origins and destinations have differing impact on the facilities at the ports and the traffic on the inland waterway system. This chapter examines the tonnage volume of waterborne commerce handled at Texas ports in foreign, domestic coastwise, and domestic internal trade channels.

Texas is one of the major states in the nation engaged in waterborne commerce. Figure II-1 shows the Texas share of U. S. waterborne commerce by various categories for 1965 and 1970. In all categories the 1970 statistics show a decline from 1965. In 1965 Texas accounted for 15.0 percent of total U. S. waterborne commerce,



but only 12.6 percent in 1970. Domestic coastwise traffic experienced the greatest decline in Texas share for 1970. Texas accounts for less than 5.0 percent of total U.S. imports; however, this category was consistent for the two time periods. It is obvious that the major emphasis of Texas waterborne commerce is in domestic trade as illustrated by coastwise and internal movements which represent 32.8 and 15 percent of total U.S. activity in these categories.

**Table II-1**  
**WATERBORNE COMMERCE OF THE UNITED STATES,**  
**1965 & 1970 WITH TEXAS COMPARISONS**

Category	United States		Texas		Percent Of United States	
	1965	1970	1965	1970	1965	1970
Total	1,272,896,243	1,531,696,507	190,525,386	193,173,770	15.0	12.6
Foreign Imports	269,834,819	334,339,772	12,167,248	14,544,442	4.5	4.3
Foreign Exports	173,891,990	241,629,361	23,340,798	25,245,934	13.4	10.4
Coastwise	201,508,107	238,440,385	82,399,398	78,252,562	40.9	32.8
Lakewise	153,695,242	157,058,867	--	--	--	--
Internal	369,615,461	472,123,417	63,067,163	70,974,661	17.1	15.0
Local	102,865,022	81,474,805	9,550,774	4,150,158	9.3	5.1
Intraterritorial	1,485,602	1,629,900	--	--	--	--

Table II-1 shows the tonnage volume at all U.S. and Texas ports for 1965 and 1970. Total tonnage increased more than 250 million tons throughout the nation but less than 3 million tons in Texas. The previous figure showed that the state's share of U.S. tonnage declined in all categories. However, two categories exhibited an absolute decline in tonnage volume. The loss of 4 million tons in coastwise trade is of special concern to the state. Internal activity at Texas ports increased 8 million tons. Coastwise traffic throughout the U.S. increased more than 18 percent between the two time periods and internal

trade increased almost 28 percent during the same time frame.

Table II-2 shows the percent of tonnage from Texas shippers moved by the various modes. Water transportation is used to move 73.8 percent of the tonnage shipped. It is apparent that a large amount of the tonnage moving by water is petroleum and related commodities.

Mode	<u>PERCENT of TONS SHIPPED</u>	
	All Commodities	Commodities Other Than Petroleum and Coal
Rail	11.7	39.9
Motor Carrier	8.4	23.9
Private Truck	6.0	19.9
Air	---	---
Water	73.8	15.9
Other	0.1	0.4
Total	100.0	100.0

Source: Bureau of Census, Census of Transportation 1970

Table II-3 shows the Texas share of U.S. waterborne commerce by commodities for 1965 and 1970. In 1965 Texas ports received 5.3 percent of the farm products imported into the U.S. However, in 1970 Texas accounted for 7.0 percent of total farm imports. For some commodity groups, chemicals for example, the Texas share of the U.S. total is relatively high in almost all categories. Also, within the categories of imports, exports, coastwise, internal, and local some major commodity shifts are apparent for 1965 and 1970. For example, in 1965 Texas

Table II-3

TEXAS SHARE OF U.S. WATERBORNE COMMERCE BY COMMODITIES 1965 AND 1970  
(Percent Of Tons)

Commodity Group	Imports		Exports		Coastwise		Internal		Local		Total	
	1965	1970	1965	1970	1965	1970	1965	1970	1965	1970	1965	1970
	J1 Farm Products	5.3	7.0	25.1	24.3	3.5	1.6	0.6	0.8	0.0	1.3	16.9
08 Forest Products	2.1	1.8	5.4	2.8	32.0	0.6	*	0.0	0.0	0.0	4.2	1.6
09 Fresh Fish & Etc.	0.5	0.1	0.0	0.0	3.0	0.9	33.6	40.4	59.0	0.9	42.8	37.0
10 Metallic Ores	9.3	10.9	1.0	0.3	98.7	0.2	66.5	1.1	0.0	0.0	6.8	4.9
11 Coal	4.3	0.0	0.1	0.1	0.0	0.0	0.4	0.3	0.0	0.0	0.2	0.2
13 Crude Petroleum	2.5	2.2	51.7	6.5	48.9	31.8	57.2	38.5	8.2	11.0	28.6	20.1
14 Nonmetallic Min.	2.2	3.8	13.2	4.8	14.8	18.4	3.8	5.5	7.2	9.3	5.1	5.3
19 Ordnance & Acc.	1.9	9.1	0.0	0.0	8.3	2.5	0.0	0.0	0.0	0.0	6.0	5.0
20 Food & Kindred Pr	4.2	4.9	12.8	11.3	8.0	7.3	1.2	1.0	1.3	0.0	7.4	6.7
21 Tobacco Products	1.1	1.7	0.1	0.1	2.3	0.0	0.0	0.0	0.0	0.0	0.8	0.2
22 Basic Textiles	6.0	4.3	21.2	8.0	11.5	5.5	0.0	1.1	0.0	0.0	9.9	5.4
23 Apparel, Etc.	0.5	0.4	3.0	1.5	0.7	0.1	0.0	0.0	0.0	0.0	0.9	0.5
24 Lumber & Wood Pro.	1.6	2.3	0.4	0.1	1.1	0.2	0.1	0.9	0.0	0.0	0.4	0.3
25 Furniture & Fixt.	1.9	2.5	1.6	2.8	7.2	1.4	0.0	57.3	0.0	0.0	3.1	2.2
26 Pulp, Paper, & Etc.	2.7	2.9	0.3	3.0	12.7	0.6	3.9	1.6	0.0	0.0	2.4	2.3
27 Printed Matter	0.3	0.4	0.3	0.2	15.6	4.0	0.0	0.0	0.0	0.0	3.2	0.9
28 Chemicals & Etc.	4.3	9.0	40.1	32.6	51.6	53.3	62.0	45.8	50.3	61.8	49.1	39.4
29 Petroleum & Coal	1.9	1.3	22.7	24.8	48.9	38.5	17.3	21.4	3.0	3.4	23.6	19.5
30 Rubber & Misc. Pl.	3.4	2.5	7.0	14.1	27.4	18.1	55.0	14.9	0.0	0.0	11.5	6.9
31 Leather & Pro.	1.5	1.2	0.3	0.4	2.6	1.0	0.0	0.0	0.0	0.0	1.5	1.1
32 Stone, Clay, Glass	1.6	2.1	2.1	2.4	3.0	9.2	10.3	6.7	0.0	0.0	4.6	4.2
33 Primary metal Pro.	9.3	8.0	18.8	8.8	24.0	23.6	17.2	16.6	1.0	8.3	13.3	10.2
34 Fab. metal Pro.	11.5	8.7	10.9	12.1	20.0	22.9	21.9	18.5	0.0	0.0	14.0	13.4
35 Mach., Except Ele.	3.9	3.5	6.6	9.4	10.1	5.6	13.3	8.2	20.3	7.3	7.0	6.9
36 Elec. Mach.	1.2	1.9	1.8	2.3	7.8	2.2	52.2	0.0	0.1	0.0	6.4	1.9
37 Trans. Equip.	5.0	5.3	1.1	4.2	1.0	4.5	1.1	4.1	15.8	15.4	2.3	4.5
38 Inst., Photo., Op	0.4	0.6	1.7	2.7	9.8	27.7	0.0	0.0	0.0	0.0	1.5	3.6
39 Misc. Pro. of Manf.	3.9	2.1	2.0	0.7	16.5	1.1	3.7	4.9	0.2	0.0	5.8	3.2
40 Waste and Scrap	0.4	0.2	3.0	2.2	10.5	3.1	9.2	6.3	4.1	1.8	3.9	4.0
41 Special Items	0.0	8.1	2.5	8.2	2.7	0.9	39.4	0.7	10.6	0.0	26.5	1.5
Total	4.5	4.3	13.4	10.4	40.9	32.8	17.1	15.0	9.3	5.1	15.0	12.6

\*Less than 0.05 percent.

exported 51.7 percent of all crude petroleum exported from this country, but in 1970 only 6.5 percent of total crude was exported from Texas ports. Of major significance for Texas, however, is the total column for 1965 and 1970. These figures indicate that Texas's share of waterborne commerce declined in 25 of the 30 commodity groups. In 1965, Texas ports either shipped or received 49.1 percent of all chemicals moving in U.S. waterborne commerce. For 1970, only 39.4 percent of chemicals in waterborne commerce were related to Texas ports.

Declines in the Texas share of U.S. waterborne commerce can work to the detriment of the economy of the state. While it is difficult to determine from an examination of two time periods if this is indicative of a long term trend, speculation does arise concerning the almost complete loss of position in the various commodity groups.

Table II-4 indicates the percentage distribution of activities at Texas and U.S. ports. At Texas ports, 21.2 percent of the waterborne commerce was classified as foreign trade during 1970 (7.7 percent imports and 13.5 percent exports). This compares with 37.9 percent for the U.S. during the same period. Although the distribution had remained relatively stable for 1965 and 1970 the data indicate that there was a 26.5 percent decrease in coastwise receipts for 1970 compared to 1965. In addition tonnage at Texas ports increased only 1.4 percent while tonnage increased 20.3 percent at all U.S. ports. For 1970, when compared to 1965, Texas ports failed to increase at the same pace as other U.S. ports. Although the limited data preclude any definitive statement it is apparent that if this trend continues



Table II-4

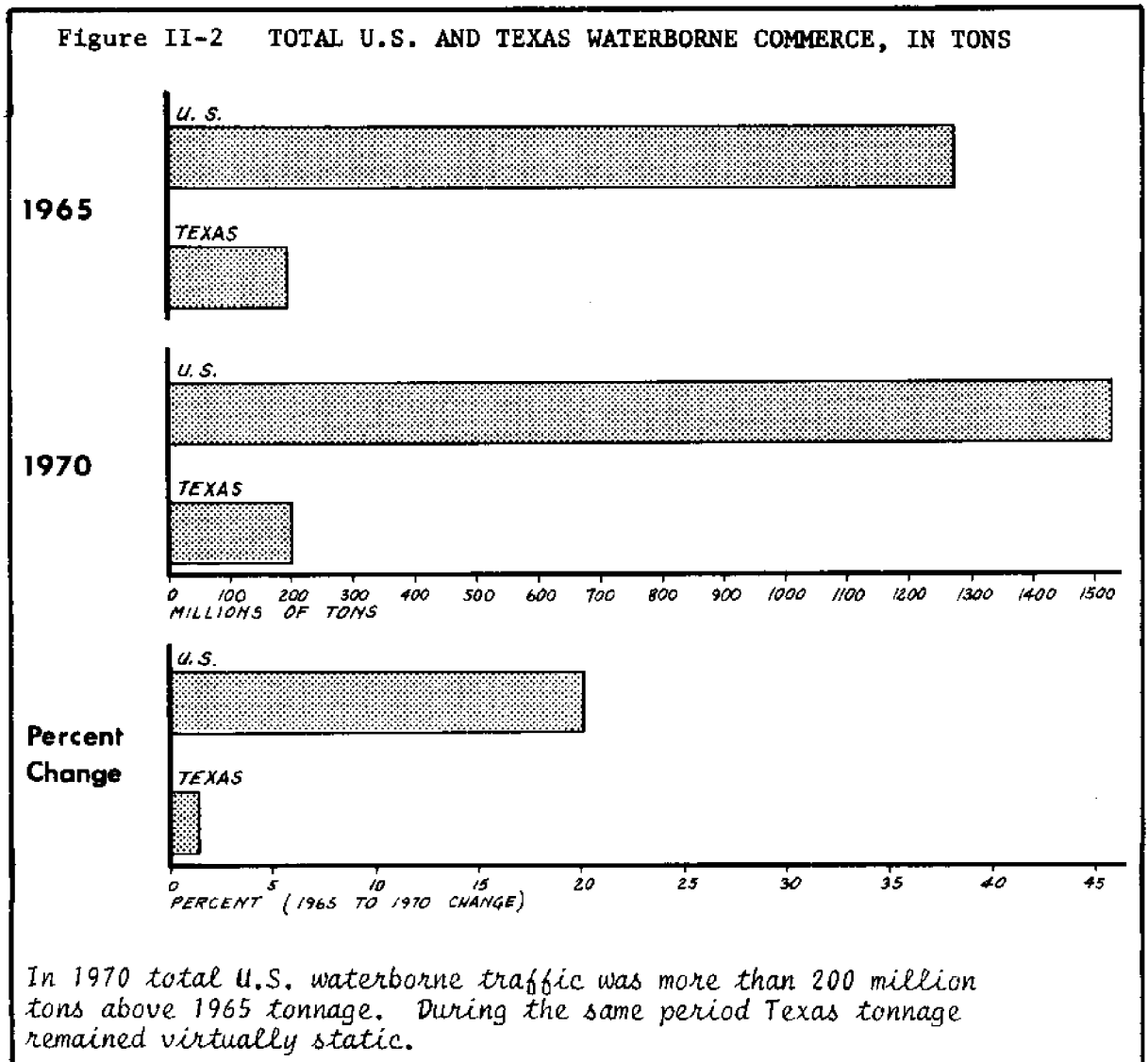
WATERBORNE COMMERCE AT 14 TEXAS PORTS AND ALL UNITED STATES FOR 1965 AND 1970

Category	Texas Ports <sup>1</sup>			National		
	1965	1970	Percent Change 1965-1970	1965	1970	Percent Change 1965-1970
Foreign Imports	6.6	7.7	19.5	21.2	22.1	25.8
Exports	12.6	13.5	8.2	13.7	15.8	38.9
Coastwise Receipts	5.2	3.8	- 26.5	15.9	15.6	18.3
Shipments	39.3	37.9	- 2.2	--	--	--
Lakewise	--	--	--	12.1	10.3	0.2
Internal Receipts	17.4	20.3	18.0	29.0	30.8	27.7
Shipments	13.7	14.6	8.3	--	--	--
Local	5.2	2.2	- 56.5	8.0	5.3	- 20.8
Intraterritory	--	--	--	0.1	0.1	9.7
Total	100.0	100.0	1.4	100.0	100.0	20.3

<sup>1</sup>/ TEXAS PORTS: Orange, Beaumont, Port Arthur, Sabine Pass Harbors, Texas City, Galveston, Houston, Freeport, Harbor Island, Corpus Christi, Matagorda Bay, Victoria, Port Isabel, and Brownsville.

Texas will lose its position as a major waterborne commerce state.

A graphic comparison of Texas and U.S. tonnage for the years 1970 and 1965 is shown in Figure II-2. In 1970 the absolute tonnage at all U.S. ports had increased measurably compared to 1965, while only a minor increase had occurred at Texas ports. It is important to note



that while the percent change for the U.S. was over 20 percent, the Texas tonnage had increased only 1.4 percent. This fact alone should cause concern throughout the state.

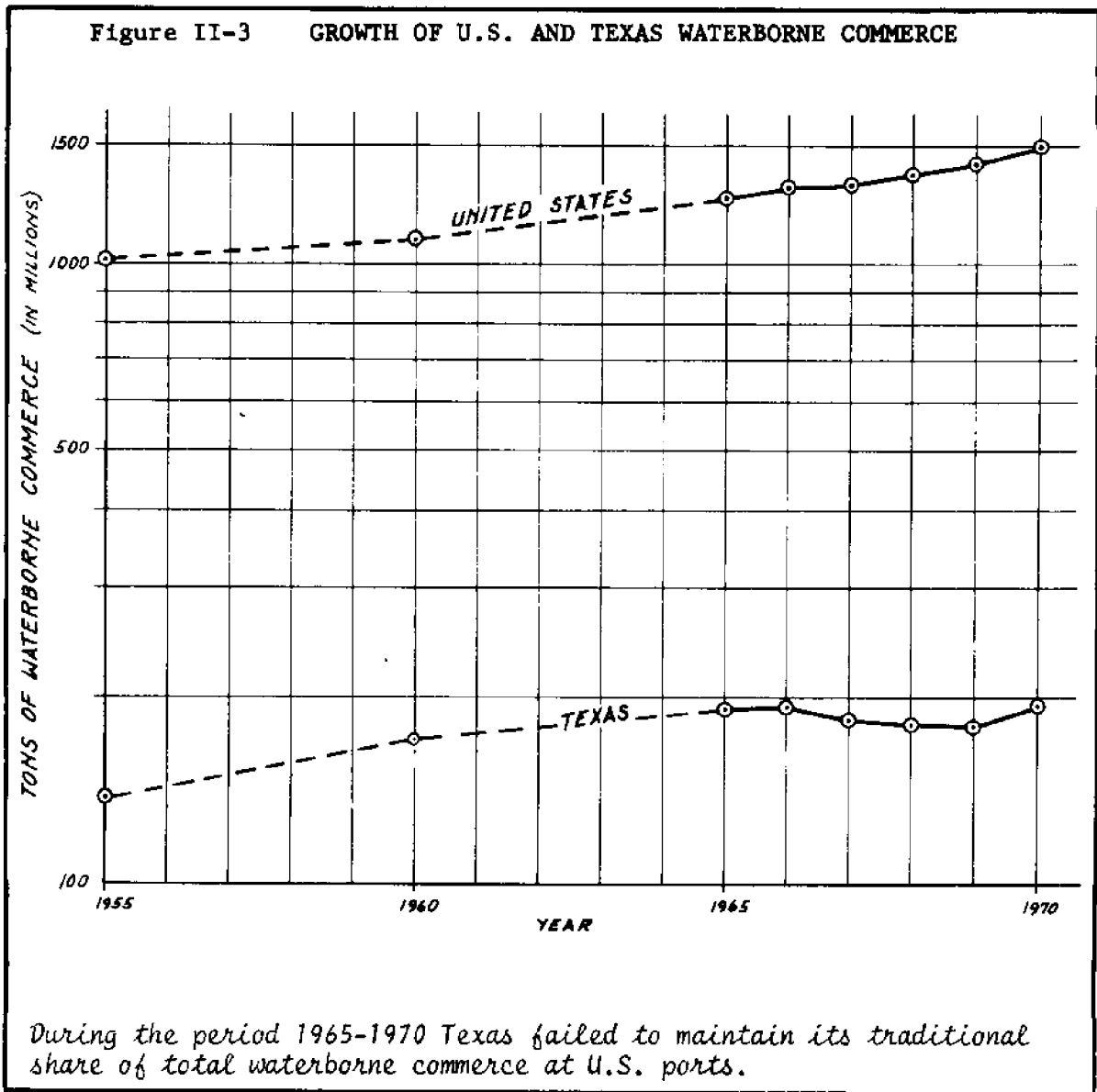


Figure II-3 graphically traces the growth pattern of U.S. and Texas waterborne commerce since 1955. The position of Texas, compared to the nation was, relatively constant until 1965. Since that time, however the position of Texas has deteriorated. From 1965 to 1970 tonnage at all U.S. ports has been increasing. At Texas ports, however, 1970 tonnage is only on par with the 1965 tonnage. Once traffic is lost at a port it is difficult to recover the business. The figure shows that once a share of the market is lost - regardless of the reason - it may be several years before the ports recoup their position.

The failure of waterborne commerce activity in Texas to increase significantly is due primarily to a decline in ocean movement (domestic coastwise), rather than traffic on the inland waterway system. The statistical information does not identify the cause or causes of this situation. Undoubtedly a variety of factors influence the performance in this area.

During 1970 more than 190 million tons were moved through Texas ports and waterways. Table II-5 shows that petroleum and coal products represented the major commodity with 39.8 percent of the total. Crude petroleum with 21.9 percent of the total was the second ranking commodity in Texas waterborne commerce. An examination of the percent distribution for 1965 and 1970 indicate relatively stable distribution of commodities moving through Texas ports. However, the percent change from 1965-1970 show wide fluctuations for individual commodity groups. Instability such as appear in the table, can be expected for commodity groups which represent a small percent of the total port activity.

Table II-5

COMPARISON OF TOTAL ACTIVITY AT ALL TEXAS PORTS AND WATERWAYS, 1965 & 1970,  
IN TONS

Commodity Group	1965	Percent Of Total	1970	Percent Of Total	Percent Change 1965-1970
01 Farm Products	13,922,760	7.3	14,387,620	7.4	3.3
08 Forest Products	37,196	*	17,149	*	- 53.9
09 Fresh Fish	11,556,716	6.1	8,485,946	4.4	- 26.6
10 Metallic Ores	10,054,761	5.3	7,609,877	3.9	- 24.3
11 Coal	366,643	0.2	427,654	0.2	16.6
13 Crude Petroleum	44,445,836	23.3	42,258,256	21.9	- 4.9
14 Nonmetallic Minerals	7,353,498	3.9	8,878,674	4.6	20.7
19 Ordnance & Accessories	1,460	*	836	*	- 42.7
20 Food & Kindred Products	2,084,039	1.1	2,329,838	1.2	11.8
21 Tobacco Products	549	*	182	*	- 66.8
22 Basic Textiles	139,636	0.1	77,231	*	- 44.7
23 Apparel, etc.	1,534	*	1,524	*	- 0.7
24 Lumber & Wood Products	152,202	0.1	166,141	0.1	9.2
25 Furniture & Fixtures	3,731	*	6,527	*	74.9
26 Pulp, Paper & etc.	246,329	0.1	295,459	0.2	19.9
27 Printed Matter	3,549	*	1,400	*	- 60.6
28 Chemicals & etc.	18,184,251	9.5	24,430,907	12.6	34.4
29 Petroleum & Coal	75,098,793	39.4	76,837,657	39.8	2.3
30 Rubber & Misc.	35,757	*	34,226	*	- 4.3
31 Leather	3,053	*	3,503	*	14.7
32 Stone, Clay & Glass	584,651	0.3	698,593	0.4	19.5
33 Primary Metal Prod.	3,721,374	2.0	4,306,864	2.2	15.7
34 Fabricated Metal Prod.	300,065	0.2	315,746	0.2	5.2
35 Machinery, Except Electrical	156,600	0.1	224,570	0.1	43.4
36 Electrical Machinery	46,009	*	23,789	*	- 48.3
37 Transportation Equip.	59,341	*	172,901	0.1	191.4
38 Instruments	1,340	*	4,534	*	238.4
39 Misc. Products of Mfg.	286,013	0.2	48,870	*	- 82.9
40 Waste & Scrap	618,917	0.3	1,034,358	0.5	67.2
41 Special Items	1,058,783	0.6	92,738	*	- 91.2
Total	190,525,386	100.0	193,173,770	100.0	1.4

\*Less than 0.05 percent.

A comparison of total activity at all U.S. ports is shown in the Appendix. This table indicates that for those commodities which constitute an important segment of activity at U.S. ports the percent change for 1970 over 1965 exceeded the comparable figure at Texas ports. For example, the movement of crude petroleum at Texas ports declined 4.9 percent in 1970 when compared to 1965 but increased 35.3 percent at all U.S. ports for the same period. Petroleum and coal products increased 2.3 percent during the period in Texas while increasing 24.2 percent throughout the nation.

A comparison of the top ten commodity groups in the U.S. and Texas is presented in Table II-6. Petroleum and coal products is the major commodity group handled at all U.S. and all Texas ports. At the Port of Galveston, however, farm products represent the largest percent of the commodity groups while fresh fish and other marine products command first place at Orange. Of the six Texas ports presented in II-6 Galveston and Orange have some striking differences in the commodity groups moving through the facilities.

Figure II-4 presents the major commodity groups in the several categories at Texas ports. Metallic ores constitute the major commodity group in the foreign import category and crude petroleum is the second leading import. In the foreign export market farm products are the leading commodity moving through Texas ports. Crude petroleum is the leading commodity received at Texas ports in domestic trade in both the coastwise and internal categories. On the other hand petroleum products are the leading commodities leaving Texas for domestic markets in both categories.

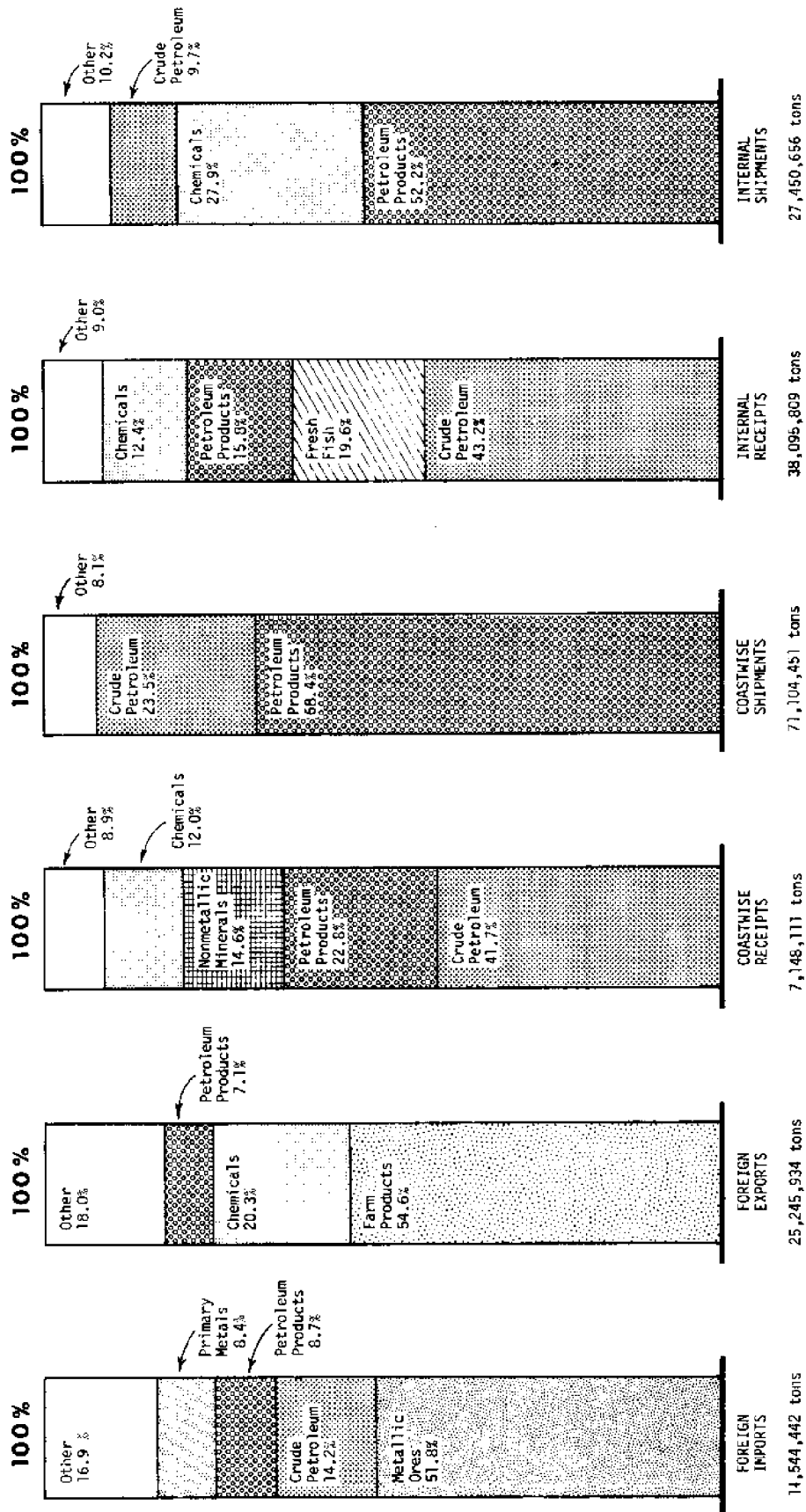
Table II-6

TOP TEN COMMODITY GROUPS HANDLED AT ALL U. S. PORTS  
WITH TEXAS COMPARISONS AT SELECTED PORTS, 1970

Commodity Group	Percent Of Total Tons							
	U. S. Summary	Texas Ports	Houston	Galveston	Corpus Christi	Beaumont	Orange	Brownsville
29 Petroleum & Coal Products	25.8	40.1	41.2	1.3	50.2	39.7	4.4	9.1
11 Coal	14.7							
13 Crude Petroleum	13.7	21.9	9.1		16.0	34.7	7.4	66.6
14 Non Metallic Minerals Except Fuels	10.9	4.2	5.1	17.6	0.1	9.2		4.8
10 Metallic Ores	10.1	4.1	1.7	0.8	13.8			1.0
01 Farm Products	5.9	7.7	12.7	44.9	7.7	6.4	2.9	11.7
24 Lumber & Wood Products Except Furniture	3.3			1.8				
33 Primary Metal Products	2.8	2.2	3.8	1.8	0.8	0.6	5.2	0.9
20 Food & Kindred Products	2.3	1.2	1.7	21.6	0.7	0.8	0.6	
40 Waste & Scrap Material	1.7	0.5	1.2			0.6		0.5
Total	91.2							
28 Chemicals & Allied Products		12.7	13.4	6.7	9.1	6.1	19.3	4.8
09 Fresh Fish & Other Marine Products		4.0	7.0	1.0	1.2	1.5	55.0	0.1
Total		98.6	96.9					
39 Misc. Products of Manufacture				0.6				
Total				98.1				
32 Stone, Clay & Glass					0.4	0.1	1.2	
Total					100.0	99.7		
26 Pulp, Paper & Allied Products							2.6	
34 Fabricated Metal Products							0.7	
Total							99.3	
35 Machinery, Except Electrical								0.3
Total								99.8

Figure II-4

WATERBORNE COMMERCE ACTIVITY AT TEXAS PORTS BY COMMODITY GROUPS, 1970



*The importance of domestic coastwise and internal trade to the economy of Texas is illustrated by the volume of crude petroleum entering the state and the reverse flow of petroleum products leaving Texas.*

<sup>1</sup> Includes: Orange, Beaumont, Port Arthur, Sabine Pass Harbor, Houston, Texas City, Galveston, Freeport, Matagorda Bay, Channel to Victoria, Harbor Island, Corpus Christi, Port Isabel, Brownsville.



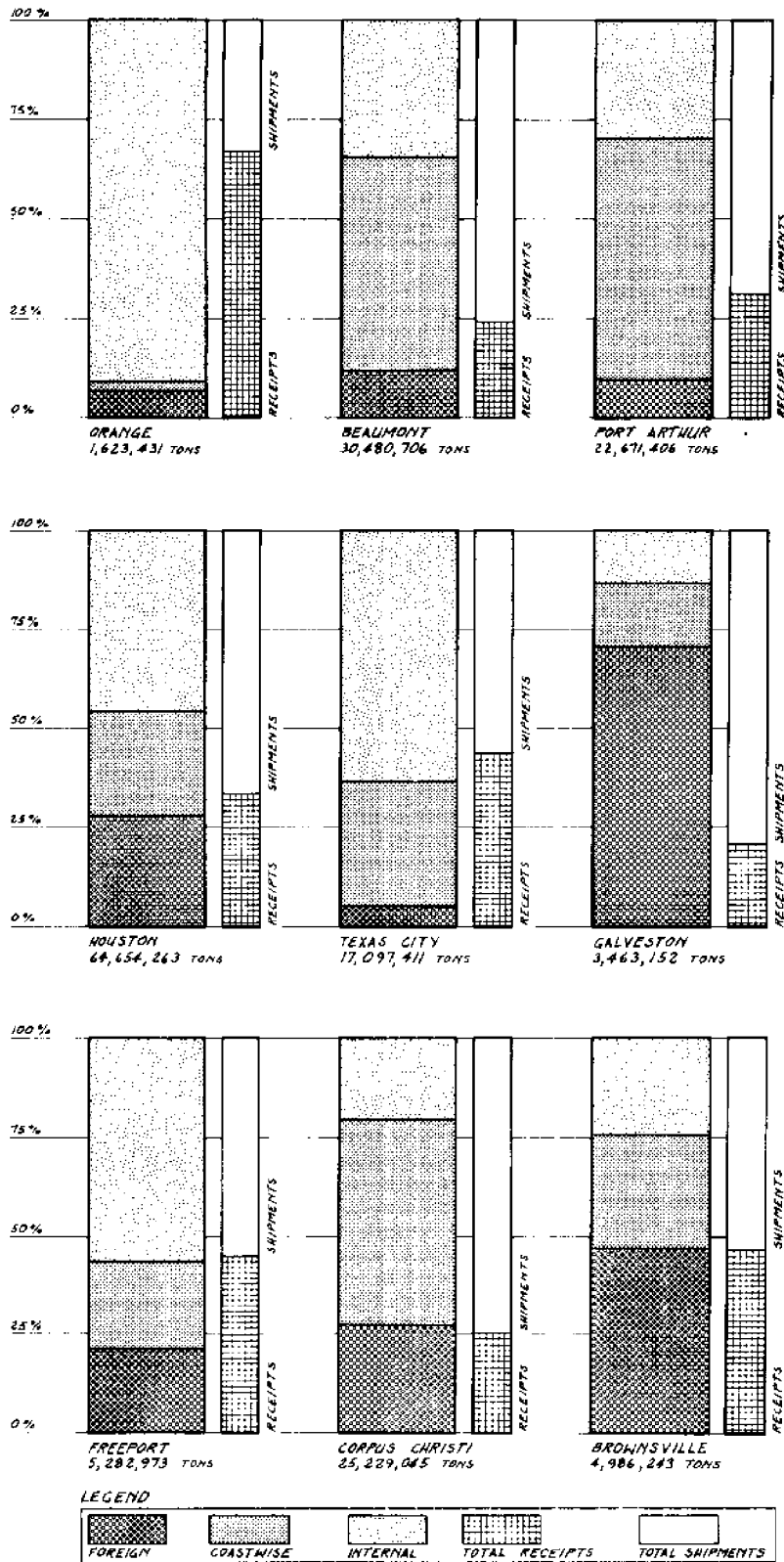
An examination of Figure II-4 shows that foreign exports from Texas ports exceeded foreign imports by 10 million tons. Coastwise receipts are only one tenth of coastwise shipments from Texas. Only in the internal category does Texas receive more tonnage than it ships. Large traffic imbalances, such as these, obviously do not work to the benefit of the states economy. Since unused cargo space results in higher rates and inefficient use of transport resources, efforts should be made to improve the tonnage balance at Texas ports.

Figure II-5 shows the distribution of foreign, domestic coastwise and domestic internal traffic at nine ports in Texas. Also, the distribution of receipts and shipments at these locations is presented. The Port of Orange is primarily involved in domestic internal shipments while Galveston is basically a foreign trade port. Both Beaumont and Port Arthur are heavily engaged in domestic coastwise trade.

Three ports, Texas City, Freeport and Brownsville are approaching a balanced traffic position. Orange receives considerably more than it ships while the reverse is apparent at Beaumont, Galveston and Corpus Christi. However, the balance implies only that shipment and receipt tonnages are approximately equal. Cargo space on ships and barges may be unused due to specific commodity or destination requirements.

Tonnage at Houston, the leading port in the state, is almost equally divided among the three activities although domestic internal trade predominates. Approximately 30 percent of Houston tonnage is receipts; 70 percent is shipments.

Figure II-5 TRAFFIC CHARACTERISTICS AT TEXAS PORTS



Each port in the state has developed certain traffic characteristics. For example, Orange is highly dependent on the inland waterways while Galveston is a foreign trade port.

### CHAPTER III

## CHAPTER III

### THE INTRACOASTAL AND INLAND WATERWAY MOVEMENTS

The importance of the intracoastal and the inland waterway network to the overall economic well-being of the state has been overlooked in most discussions of waterborne commerce. However, these facilities constitute a major artery for Texas commerce. Goods move into and out of Texas ports and waterways with origins and destinations throughout the broad mid-section of the nation. In addition, a large volume of tonnage moves within and between the intracoastal waterway segments within the State.

The Corp of Engineers in Waterborne Commerce of the United States, Part 5, provides commodity flow statistics on various commodities moving in domestic trade on the intracoastal and inland waterways of the nation. This data is classified into the following groups:

- Grains, Soybeans, Sugar and Molasses
- Logs and Lumber
- Coal and Lignite
- Petroleum and Related Products
- Iron and Steel
- Chemicals and Related Products

These commodities account for the vast majority of commodities moving on the inland waterway system.

Texas shipping and receiving areas on the intracoastal waterway are those identified in the Corp of Engineers publication; however, areas outside the state have been consolidated into larger market areas. The information on the ensuing pages defines the commodity flow into and out of Texas as well as within the state. The data provide a

striking picture of the role of domestic inland waterway commerce in Texas industry.

Table III-1 presents the destination of Texas inland waterway shipments, by commodity groups, for 1970. Over half of the total tonnage shipped from Texas waterways was destined for out-of-state points. The Port of Chicago was the leading out-of-state terminal. This table indicates the wide geographic dispersion of Texas commerce, with points as far away from Texas as Pittsburgh, Pa., receiving meaningful tonnage from Texas. These areas, presented in the table, are Texas markets served by the inland waterway system. Information such as this can provide valuable insights into waterborne commerce for marketing and promotional activities. For example, the leading destination for chemicals and related products outside of Texas is the Kanawha River, West Virginia.

The originating segments of traffic entering Texas on the intra-coastal waterway are shown in Table III-2. Shipping areas outside of Texas accounted for 55.3 percent of the total tonnage terminating in the state. However, 44.7 percent of the tonnage originated and terminated in Texas. The major originating segment was the Gulf Intra-coastal waterway: Mississippi River, La. to Sabine River, Texas, which accounted for 20.7 percent of the total. This segment primarily shipped petroleum and related products into the state. The Monongahela River, Pa. and W. Va., was the leading segment shipping iron and steel into Texas. Chemicals and related products originated mainly on segments within Texas. However, the Mississippi River segment between Baton Rouge and New Orleans was the originating point outside the state

Table III-1

DESTINATIONS OF DOMESTIC INLAND WATERWAY MOVEMENT FROM TEXAS WATERWAYS BY MAJOR COMMODITY GROUPS, 1970

Receiving Area	Commodity (Tons)										Percent of Total			
	Grain & Soybeans		Coal, Logs & Lumber		Petroleum & Related Products		Iron & Steel		Chemicals & Related Products					
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%				
1 Warrior River System					478,194	2.3			235,004	2.5	713,198	2.3		
2 Gulf Intracoastal Waterway: Mobile Bay, Ala., to New Orleans, La.					201,773	1.0		10,531	4.1	122,918	1.3	335,222	1.1	
3 Gulf Intracoastal Waterway: Mississippi River, La., to Sabine River, Texas					395,355	1.9		59,609	24.6	1,880	*	456,844	1.5	
4 Mississippi River: New Orleans, La., to Mouth of Passes	429	1.1			815,254	3.9		5,439	2.7	38,476	0.4	860,568	2.8	
5 Mississippi River: Mouth of Missouri River to Mouth of Ohio River					589,294	2.8		695	0.3	176,549	1.9	766,338	2.5	
6 Ohio River: Engineer District, Louisville					684,769	3.3		10,534	4.2	221,726	2.3	917,029	3.0	
7 Ohio River: Engineer District, Huntington					32,720	0.1		4,904	2.0	171,121	1.8	208,745	0.7	
8 Ohio River: Engineer District, Pittsburgh					329,007	1.6		---	---	242,319	3.6	571,326	1.9	
9 Kanawha River, W. Va.					151,701	0.7		---	---	706,846	7.4	858,547	2.8	
10 Monongahela River, Pa., and W. Va.					202,627	1.0		766	0.3	1,781	*	204,174	0.7	
11 Illinois River, Ill.					190,898	0.9		20,130	8.3	391,148	4.1	602,176	2.0	
12 Lake Michigan					47,369	0.2		1,500	0.6	24,349	0.3	73,218	0.2	
13 Port of Chicago, Ill.					5,112	0.0	1,678,012	8.3	5,845	2.4	468,718	4.9	2,151,687	7.0
14 Mississippi River: Veneapolis, Minn., to Mouth of Missouri River					667	0.0	636,159	3.0	5,829	2.4	191,596	2.0	833,551	2.7
15 Wolf River, Tenn.					2,208	*						2,208	*	
16 Gulf Intracoastal Waterway: Apalacnee Bay, Fla., to Mobile Bay, Ala.					366,247	1.8				14,927	0.2	381,174	1.2	
17 Mermentau River, Bayou Nezelique and Bayou Des Cannes, La.					29,541	0.1		1,730	0.7	---	---	31,271	0.1	
18 Mississippi River: Baton Rouge, La., to but not including New Orleans, La.	12,140	30.0			1,533,582	7.4		5,372	2.6	543,731	5.7	2,099,865	6.8	
19 Mississippi River: Mouth of Ohio River to but not including Baton Rouge, La.					764,016	3.7		4,325	1.8	27,599	0.3	795,940	2.6	
20 White River, Ark.					---	---						---	---	
21 Minnesota River, Minn.					---	---						---	---	
22 Escambia and Conecuh Rivers, Fla., and Ala.					---	---				193,329	2.1	193,329	0.6	
23 Calcasieu River and Pass, La.					---	---				136,899	1.4	136,899	0.4	
24 Tennessee River, Tenn., Ala., and Ky.					229,682	1.1		2,000	0.8	1,727	0.2	233,409	0.7	
25 Yazoo River and Mouth, Miss.					268,674	1.3		1,727	0.7	301,671	3.2	571,072	1.8	
26 Gulf of Mexico					83,647	0.4				9,167	*	92,814	0.3	
27 Gulf Intracoastal Waterway: Plaquemine to Morgan City, La.					---	---		16,400	15.0	---	---	16,400	0.1	
28 Atchafalaya River, La.					643	*				---	---	643	*	
29 Inland Waterway, Franklin to Mermentau River, La.					19,617	0.1				---	---	19,617	0.1	
30 Bayou Vermilion, La.					---	---				---	---	---	---	
31 Calcasieu River and Pass, La.					---	---		1,329	0.6	---	---	1,329	0.0	
32 Cumberland River, Tenn., and Ky.					493,774	2.4				65,492	0.7	559,266	1.8	
33 Big Sandy River, Ky., and W. Va.					110,643	0.5		7,088	2.9	71,406	0.7	189,137	0.6	
34 Osage and Black Rivers, Ark., and La.					---	---		6,791	2.6	---	---	6,791	0.0	
35 Atchafalaya River, La.					126,578	0.6				16,507	0.2	143,085	0.4	
36 Atchafalaya River, La.					154,433	0.7				4,538	*	158,971	0.5	
37 Atchafalaya River, La.					---	---		4,733	2.0	---	---	4,733	0.0	
38 Apalachicola, Chattahoochee & Flint Rivers, Ga., and Fla.					---	---				19,299	0.2	19,299	0.1	
39 Arkansas River, Ark.					---	---				16,461	0.2	16,461	0.1	
40 Missouri River					7,693	*				29,915	0.4	37,608	0.1	
41 Minnesota River, Minn.					---	---				44,515	0.5	44,515	0.1	
42 Black River, Wis.					14,910	0.1				---	---	14,910	0.0	
43 Milwaukee Harbor, Wis.					2,132	*				---	---	2,132	*	
44 Little Kanawha River, W. Va.					---	---				1,150	*	1,150	*	
45 Saginaw River, Mich.					---	---				4,824	0.1	4,824	0.0	
Sub Total	12,569	31.1	5,779	80.1	10,600,573	50.7	205,273	84.7	4,607,814	48.1	15,432,106	51.2		
A Sabine-Neches Waterway, Texas			874	12.1	7,468,845	11.8	25,009	10.3	368,494	3.8	7,862,153	25.5		
B Gulf Intracoastal Waterway: Sabine River to Galveston, Texas					1,444	*			131,194	1.4	132,638	0.4		
C Galveston Bay, Texas			360	7.8	4,098,709	19.6	10,283	4.2	2,825,261	30.7	7,134,152	23.1		
D Gulf Intracoastal Waterway: Galveston to Corpus Christi, Texas					918,773	4.4	1,467	0.7	1,162,123	12.2	2,082,363	6.8		
E Gulf Intracoastal Waterway: Corpus Christi, Texas to the Mexican Border	27,865	68.9			2,830,540	13.5	225	0.1	340,165	3.6	3,158,795	10.1		
Sub Total	27,865	68.9	1,435	19.9	10,318,161	49.3	37,184	15.3	4,928,137	51.7	15,117,437	48.8		
Total	40,434	100.0	7,214	100.0	20,918,734	100.0	242,457	100.0	9,535,951	100.0	30,744,631	100.0		

\*Less than .05 percent

Source: Waterborne Commerce of the United States, Calendar Year 1970, Part 5, National Summaries.

Table III-2

ORIGINATIONS OF DOMESTIC INLAND WATERWAY MOVEMENT INTO TEXAS WATERWAYS BY MAJOR COMMODITY GROUPS, 1970

Shipping Areas	Commodity (Tons)										Percent Of Total	
	Grain & Soybeans		Coal, Logs & Lumber		Petroleum & Related Products		Iron & Steel		Chemicals & Related Products			Total
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%		
1 Warrior River System					52,323	0.2	82,093	7.7	5,990	0.1	140,406	0.4
2 Gulf Intracoastal Waterway: Mobile Bay, Ala., to New Orleans, La.					41,890	0.2	600	0.1	127,996	2.0	170,486	0.5
3 Gulf Intracoastal Waterway: Mississippi River, La., to Sabine River, Texas					7,068,195	26.9	2,862	0.3	3	*	7,071,060	20.7
4 Mississippi River: New Orleans, La., to Mouth of Fessenden	1,389	2.8	3,504	1.3	2,167,913	8.2	52,194	4.9	66,824	1.0	2,291,804	6.7
5 Mississippi River: Mouth of Missouri River to Mouth of Ohio River	1,305	0.8			3,913	*	33,853	3.2	5,216	0.1	44,287	0.1
6 Ohio River: Engineer District, Louisville	44,664	27.6			33,064	0.1	5,257	0.6	28,298	0.4	112,303	0.3
7 Ohio River: Engineer District, Huntington			356,296	98.5	8,120	*	22,776	2.1	5,936	0.1	393,131	1.2
8 Ohio River: Engineer District, Pittsburgh					12,399	*	194,635	18.3	77,235	1.2	204,269	0.8
9 Kanawha River, W. Va.					6,432	*	77,908	7.3	189,967	3.0	273,907	0.8
10 Monongahela River, Pa., and W. Va.			601	0.2	8,100	*	240,271	22.5	7,800	0.1	256,772	0.8
11 Illinois River, Ill.	7,692	4.6					16,449	1.5			24,141	0.1
12 Lake Michigan					45,193	0.2	101,333	9.5	5,421	0.1	151,947	0.4
13 Port of Chicago, Ill.					70,972	0.3	165,540	15.5	35,423	0.6	271,935	0.8
14 Mississippi River: Minneapolis, Minn., to Mouth of Missouri River	3,938	2.4			117,181	0.5	23,051	2.2	37,431	0.6	181,601	0.5
15 Gulf River, Tenn.							8,163	0.8			8,763	*
16 Gulf Intracoastal Waterway: Apalachee Bay, Fla., to Mobile Bay, Ala.	1,044	0.7			3,352	*			1,330	*	5,726	*
17 Mermentau River, Bayou Nepeleur and Bayou Des Cannes, La.	16,186	10.0			620,497	2.4					636,683	1.9
18 Mississippi River: Baton Rouge, La., to but not including New Orleans, La.	2,461	1.5			1,343,476	5.1			569,267	8.9	1,915,204	5.6
19 Mississippi River: Mouth of Ohio River to but not including Baton Rouge, La.	46,384	29.9			83,186	0.3			29,115	0.5	160,685	0.5
20 White River, Ark.	2,760	1.7									2,760	*
21 Minnesota River, Minn.	4,298	2.6									4,284	*
22 Apalachicola and Conecuh Rivers, Fla., and Ala.									3,978	0.1	3,978	*
23 Calcasieu River and Pass, La.									240,312	3.7	240,312	0.7
24 Tennessee River, Tenn., Ala., and Ky.					60,184	0.2			24,440	0.4	84,624	0.2
25 Yocco River and Mouth, Miss.									3,209	*	3,209	*
26 Gulf of Mexico					1,769,438	6.8					1,769,438	5.2
27 Gulf Intracoastal Waterway: Plaquemine to Morgan City, La., La.					265,903	1.0					265,903	0.8
28 Atchafalaya River, La.					317,318	1.2					317,318	0.9
29 Inland Waterway, Franklin to Mermentau River, La.					335,880	1.3					335,880	1.0
30 Bayou Vermilion, La.					105,295	0.4					105,295	0.3
31 Calcasieu River and Pass, La.					1,381,644	5.3					1,381,644	4.0
32 Cumberland River, Tenn., and Ky.					7,762	*					7,762	*
33 Big Sandy River, Ky., and W. Va.					2,767	*					2,767	*
<b>Sub-Total</b>	<b>134,091</b>	<b>82.8</b>	<b>360,404</b>	<b>99.7</b>	<b>15,932,417</b>	<b>60.7</b>	<b>1,027,685</b>	<b>96.5</b>	<b>1,465,191</b>	<b>22.9</b>	<b>18,919,688</b>	<b>55.7</b>
4 Sabine-Neches Waterway, Texas					1,568,788	6.0	4,132	0.4	563,994	9.1	2,136,914	6.3
5 Gulf Intracoastal Waterway: Sabine River to Galveston, Texas					485,053	1.9			8,455	0.1	493,508	1.4
6 Galveston Bay, Texas	27,865	17.2	1,435	0.3	3,064,383	14.7	32,138	3.0	2,565,293	40.1	6,491,114	19.0
7 Gulf Intracoastal Waterway: Galveston to Corpus Christi, Texas					1,430,245	5.4			1,136,368	17.8	2,566,613	7.5
8 Gulf Intracoastal Waterway: Corpus Christi, Texas, to the Mexican Border					2,969,692	11.3	914	0.1	639,827	10.0	3,604,533	10.6
<b>Sub-Total</b>	<b>27,865</b>	<b>17.2</b>	<b>1,435</b>	<b>0.3</b>	<b>10,318,161</b>	<b>39.3</b>	<b>37,184</b>	<b>3.5</b>	<b>4,928,037</b>	<b>77.1</b>	<b>15,312,682</b>	<b>44.7</b>
<b>Total</b>	<b>161,956</b>	<b>100.0</b>	<b>361,839</b>	<b>100.0</b>	<b>26,250,578</b>	<b>100.0</b>	<b>1,064,769</b>	<b>100.0</b>	<b>6,393,228</b>	<b>100.0</b>	<b>34,232,370</b>	<b>100.0</b>

\* Less than .05 percent

Source: Waterborne Commerce of the United States, Calendar Year 1970, Part 5 National Summaries

for these products.

Commodity flow data for 1965 showing destination of Texas shipments is presented in Table III-3. Shipments from Texas to out of state points were 6 million tons greater in 1970 than 1965. Also 36.7 percent of the shipments from Texas waterways went out of state in 1965 compared to 50.2 percent in 1970.

Table III-4 presents the originating segments of the waterway system shipping commodities into Texas. An increase of more than 2 million tons is indicated for 1970 over 1965. In 1965, 49.2 percent of the tonnage terminating on Texas waterway segments originated outside Texas--in 1970, 55.3 percent originated outside the state.

A comparison of Tables III-1 and III-3 show some striking similarities. For example, the Port of Chicago was the leading receiving area for both time periods. Also Tables III-2 and III-4 show the Mississippi River to Sabine River segment of the intracoastal waterway was the leading shipping area outside Texas. One important fact emerges, the increased prominence of traffic between Texas and out of state locations during this period.

The preceding tables provide a comprehensive description of traffic, moving on the inland waterway system, to and from Texas locations. This information can provide a basis for long term market development. More importantly these data indicate the far reaching nature of waterborne commerce.

Figure III-1 shows originating segment of the intracoastal waterway for commodities leaving Texas. In 1970 approximately 15.5 million tons exited the state. Additional information concerning this traffic



Table III-3

DESTINATION OF DOMESTIC WATERBORNE COMMERCE FROM TEXAS WATERWAYS BY MAJOR COMMODITY GROUPS, 1965

Commodity Area	Commodity (Tons)						Total	Percent of Total					
	Grains	Coal, Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products								
	Tons	Tons	Tons	Tons	Tons								
1. Amazon River System			300,841	1.6	957	3.4	156,872	2.3	498,672	1.7			
2. Gulf Intracoastal Waterway: Mobile Bay, Ala., to New Orleans, La.			73,744	3.4	27,321	12.7	73,301	1.1	174,366	2.7			
3. Gulf Intracoastal Waterway: Mississippi River, Ala. to Sabine River, Texas			234,129	12.5	82,085	32.2	11,310	0.2	327,524	5.1			
4. Mississippi River: New Orleans, La., to Mouth of Passes	7,497	100.2	657	3.3	760,199	41.7	1,548	0.6	47,272	0.7	512,322	8.1	
5. Mississippi River: Mouth of Missouri River to Mouth of Ohio River					84,959	3.6	670	2.3	162,150	2.3	247,129	3.9	
6. Ohio River: Engineer District, Louisville					431,648	22.7	4,487	1.8	129,071	1.8	536,204	8.4	
7. Ohio River: Engineer District, Huntington					56,269	2.9	7,982	3.1	97,331	1.4	161,702	2.5	
8. Ohio River: Engineer District, Pittsburgh					278,222	14.7	7,317	2.9	143,374	2.1	378,917	5.9	
9. Kanawha River, W. Va.					14,693	0.6	588	2.2	274,902	11.2	862,163	13.5	
10. Monongahela River, Pa., and N. Va.			1,240	0.3	291,108	1.6	3,415	1.3	4,920	0.1	304,683	4.7	
11. Illinois River, Ill.					81,252	4.4	23,007	9.0	351,330	7.2	456,589	7.1	
12. Lake Michigan					44,610	2.2			18,645	0.3	63,255	1.0	
13. Port of Chicago, Ill.			5,127	25.4	886,738	47.7	815	3.3	300,423	4.3	1,175,113	18.4	
14. Mississippi River: Minneapolis, Minn., to Mouth of Missouri River					262,191	13.5	18,514	7.3	73,254	1.0	370,959	5.8	
15. Wolf River, Tenn.					3,189	*	618	3.3			3,807	0.1	
16. Gulf Intracoastal Waterway: Apalachicola Bay, Fla., to Mobile Bay, Ala.					350,399	17.9	937	3.4	4,672	0.1	356,158	5.6	
17. Mermentau River, Bayou des Picures and Bayou des Cormes, La.					24,565	0.1	2,444	1.0	1,350	*	28,359	0.4	
18. Mississippi River: Baton Rouge, La., to but not including New Orleans, La.			2,080	10.3	662,134	34.8	16,789	6.6	249,347	3.6	930,645	14.5	
19. Mississippi River: Mouth of Ohio River to but not including Baton Rouge, La.					352,285	18.2	14,364	5.7	13,612	1.7	380,261	5.9	
20. Ohio River: West													
21. Tennessee River: Minn.													
22. Sacramento and Longhorn Rivers, Fla., and Ala.									36,677	1.3	67,677	1.1	
23. Alabama River and Pass, La.					113,226	5.9	997	3.1	190,619	7.6	304,842	4.7	
24. Tennessee River, Tenn., Ala., and Ky.					251,519	12.9	1,947	7.8	20,887	2.3	274,353	4.3	
25. Yazoo River and Outlet, Miss.			7,760	38.9			2,336	1.0			5,296	0.1	
26. Gulf of Mexico													
27. Gulf Intracoastal Waterway: Flaquimine to Morgan City, La., La.					7,684	*					7,684	0.1	
28. Atchafalaya River, La.					3,496	*					3,496	0.1	
29. Grand Waterway, Franklin to Mermentau River, La.													
30. Bayou Vermilion, La.					56,841	2.4					56,841	0.9	
31. Atchafalaya River and Pass, La.					39,568	2.0			27,714	0.4	176,287	2.7	
32. Apalachicola River, Tenn., and Ky.					34,856	1.8		4,404	1.7	103,326	1.5	142,586	2.2
33. Big Sandy River, Ky., and W. Va.					26,439	1.4					26,439	0.4	
34. Ouachita & Black Rivers, Ark., and La.					1,846	*			15,906	0.2	17,752	0.3	
35. Sagueny River, Pa.					149,668	7.8			8,011	0.1	157,679	2.4	
36. Commercial Navigation Canal, La.											3,311	0.1	
37. Oolitic, Chattahoochee & Flint Rivers, Ga., and Fla.					63,826	3.3			8,812	0.1	72,638	1.1	
38. Arkansas River, Ark.													
39. Missouri River									617	0.3	20,222	0.3	
40. Minnesota River, Minn.					1,927	*					16,271	0.2	
41. Black River, Wis.					12,895	0.7					12,895	0.2	
42. Milwaukee Harbor, W. Va.													
43. Little Kanawha River, W. Va.													
44. Saginaw River, Mich.													
45. Lake Pontchartrain, La.									15,753	0.2	15,753	0.2	
<b>Gulf Total</b>	<b>7,497</b>	<b>100.2</b>	<b>11,774</b>	<b>59.4</b>	<b>6,277,001</b>	<b>33.8</b>	<b>227,172</b>	<b>89.3</b>	<b>2,942,349</b>	<b>42.5</b>	<b>9,366,593</b>	<b>36.7</b>	
46. Sabine-Neches Waterway, Texas			1,070	5.4	1,375,196	10.3	11,190	4.5	783,896	4.1	2,221,852	29.1	
47. Gulf Intracoastal Waterways: Sabine River to Galveston, Texas					1,225	*			67,511	0.9	12,786	0.2	
48. Galveston Bay, Texas			6,338	31.5	7,346,598	37.9	12,939	5.1	2,660,825	38.4	14,226,170	187.7	
49. Gulf Intracoastal Waterway: Galveston to Corpus Christi, Texas			655	3.3	832,727	4.8	2,134	1.0	340,975	12.1	1,177,386	15.5	
50. Gulf Intracoastal Waterway: Corpus Christi, Texas to the Mexican Border					2,449,795	13.2	393	0.2	145,862	2.0	2,600,050	34.2	
<b>Gulf Total</b>			<b>8,063</b>	<b>40.6</b>	<b>12,215,314</b>	<b>66.2</b>	<b>27,256</b>	<b>10.7</b>	<b>3,993,044</b>	<b>57.5</b>	<b>16,244,239</b>	<b>61.4</b>	
<b>Total</b>	<b>7,497</b>	<b>100.0</b>	<b>19,837</b>	<b>120.0</b>	<b>18,592,315</b>	<b>100.0</b>	<b>254,430</b>	<b>100.0</b>	<b>6,935,993</b>	<b>100.0</b>	<b>25,270,977</b>	<b>100.0</b>	

\*Less than .20 percent.

Source: Waterborne Commerce of the United States, Calendar Year 1965, Part 5, National Summaries.

Table III-4

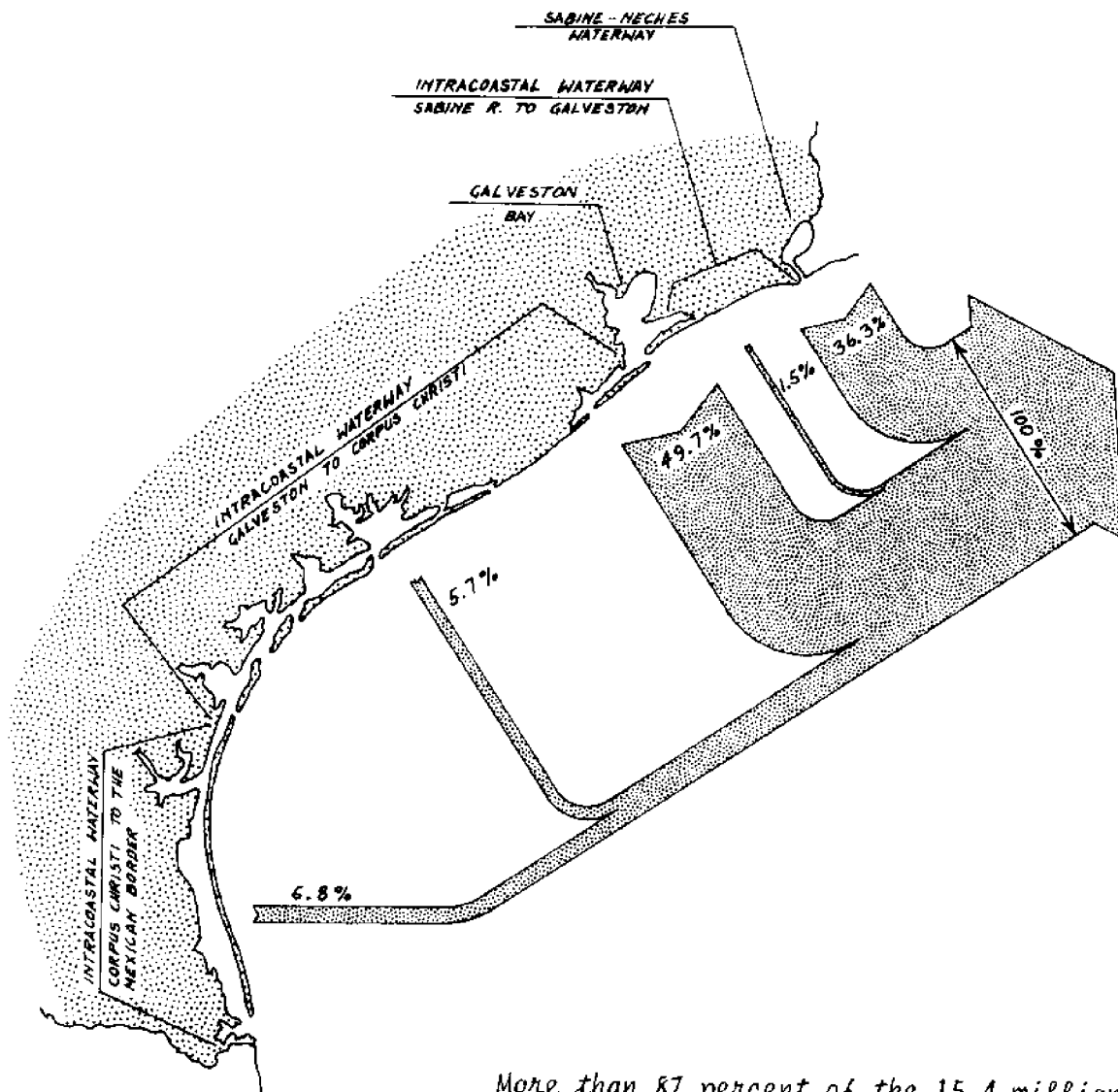
ORIGINATION OF DOMESTIC INLAND WATERWAY MOVEMENTS INTO TEXAS  
WATERWAYS BY MAJOR COMMODITY GROUP, 1965

Originating Area	Commodity (Tons)							Total	Percent Total			
	Grains		Coal, Lumber & Timber		Petroleum & Related Products		Chemicals & Related Products					
	Tons	%	Tons	%	Tons	%	Tons					
1. Atchafalaya River System			179,018	50.7	140,806	0.6	71,131	7.1	19,643	3.4	427,608	3.5
2. Gulf Intracoastal Waterway: Mobile Bay, Fla., to New Orleans, La.					29,499	0.1	737	0.1	40,642	3.8	71,678	0.7
3. Gulf Intracoastal Waterway: Mississippi River, La., to Sabine River, Texas			40	*	4,620,861	18.2	12,692	1.3	1,206	*	4,640,809	14.8
4. Mississippi River: New Orleans, La., to Mouth of Passes	2,677	7.5	502	0.1	1,396,728	5.5	6,027	0.6	39,943	9.7	1,446,877	5.5
5. Mississippi River: Mouth of Missouri River to Mouth of Ohio River	19,144	12.8			1,366	*	33,267	3.3	1,574	*	54,351	0.7
6. Ohio River: Engineer District, Louisville	18,300	12.6			131,369	0.5	35,183	3.5	35,938	5.7	227,190	2.7
7. Ohio River: Engineer District, Huntington	1,380	1.3	150,309	44.5	5,661	*	126,931	13.3	8,178	2.7	307,379	3.7
8. Ohio River: Engineer District, Pittsburg					54,027	0.2	234,395	23.3	30,610	3.6	319,039	3.8
9. Kanawha River, W. Va.					2,169	*			158,634	3.6	160,803	1.9
10. Monongahela River, Pa., and M. R.					17,341	0.1	175,019	17.4	28,437	0.5	220,807	2.7
11. Illinois River, Ill.	1,200	1.2					2,589	0.3			4,389	*
12. Lake Michigan					31,492	0.1	83,137	8.2	19,080	0.4	133,709	1.6
13. Port of Chicago, Ill.			626	0.2	38,025	0.1	164,130	16.3	49,943	0.9	243,724	3.0
14. Mississippi River: Hannibal, Mo., to Mouth of Missouri River	10,641	8.3			74,835	0.3	21,031	2.1	7,869	0.1	114,376	1.4
15. Gulf River, Tenn.	13,627	12.6									13,627	*
16. Gulf Intracoastal Waterway: Apalachee Bay, Fla., to Mobile Bay, Ala.									2,443	*	2,443	*
17. Neuse River, Bayou Neuse and Bayou Des Canons, La.					1,122,282	4.6			1,140	*	1,123,422	3.8
18. Mississippi River: Baton Rouge, La., to but not including New Orleans, La.	1,309	1.4	374	1.1	382,346	1.5	1,252	0.1	350,488	6.7	936,769	11.3
19. Mississippi River: Mouth of Ohio River to but not including Baton Rouge, La.	34,716	22.2	105	*	373,623	1.6			9,470	0.2	418,914	5.1
20. White River, Ark.	1,610	1.5									1,610	*
21. Minnesota River, Minn.	1,298	1.2									1,298	*
22. Apalachicola and Chattahoochee Rivers, Fla., and Ala.					743,499	2.9			51,919	1.0	795,418	9.8
23. Calcasieu River and Pass, La.					7,776	*			17,365	0.3	25,141	0.3
24. Tennessee River, Tenn., Ala., and Ky.												
25. Yazoo River and Mouth, Miss.												
26. Gulf of Mexico					950,007	3.7					950,007	11.7
27. Gulf Intracoastal Waterway: Plaquemine to Morgan City, La.					556,294	2.2			585	*	556,879	6.8
28. Atchafalaya River, La.			4,921	1.7	432,237	1.7			585	*	437,743	5.4
29. Inland Waterway, Franklin to Neuse River, La.					376,691	1.5					376,691	4.6
30. Bayou Vermilion, La.					272,400	1.1					272,400	3.4
31. Calcasieu River and Pass, La.					1,025,932	4.0			399,247	7.5	1,425,179	17.4
32. Lumberland River, Tenn., and Ky.							1,220	0.1	5,395	0.1	7,223	*
33. Big Sandy River, Ky., and W. Va.												
34. Ouachita & Black Rivers, Ark., and La.					96,685	0.4			2,440	*	99,125	1.2
35. Mississippi River, La.												
36. Inverness Navigation Canal, Fla.					1,702	*			345	*	2,047	*
37. Apalachicola, Chattahoochee & Flint Rivers, Ga., and Fla.												
38. Arkansas River, Ark.												
39. Missouri River	942	0.8			1,777	*					2,719	*
40. Mississippi River, Minn.												
41. Black River, Minn.												
42. Milwaukee River, Wis.												
43. Little Kanawha River, W. Va.												
44. Saginaw River, Mich.												
45. Lake Pontchartrain, La.												
<b>Sub Total</b>	<b>167,602</b>	<b>100.0</b>	<b>342,749</b>	<b>99.7</b>	<b>13,150,623</b>	<b>51.6</b>	<b>978,109</b>	<b>87.3</b>	<b>1,276,326</b>	<b>24.1</b>	<b>15,469,427</b>	<b>11.7</b>
5. Sabine-Neches Waterway, Texas					1,280,482	2.4	1,727	0.8	455,237	8.7	2,737,446	3.5
6. Gulf Intracoastal Waterway: Sabine River to Galveston, Texas					1,376,747	5.4			11,507	0.2	1,388,254	16.3
7. Galveston Bay, Texas			1,435	0.4	1,367,090	12.0	13,200	1.2	2,282,911	43.3	5,386,733	34.7
8. Gulf Intracoastal Waterway: Galveston to Corpus Christi, Texas			1,006	1.7	1,381,046	5.0			893,001	17.0	3,275,053	21.2
9. Gulf Intracoastal Waterway: Corpus Christi, Texas to the Mexican border			601	0.2	4,723,049	18.6	2,437	0.2	352,361	6.7	5,479,458	35.4
<b>Sub Total</b>			<b>8,065</b>	<b>2.3</b>	<b>12,315,914</b>	<b>48.4</b>	<b>27,268</b>	<b>2.7</b>	<b>1,993,044</b>	<b>25.6</b>	<b>16,346,491</b>	<b>10.6</b>
<b>Total</b>	<b>167,602</b>	<b>100.0</b>	<b>350,814</b>	<b>100.0</b>	<b>25,466,537</b>	<b>100.0</b>	<b>1,005,377</b>	<b>100.0</b>	<b>5,269,370</b>	<b>100.0</b>	<b>41,812,928</b>	<b>100.0</b>

\*Less than .05 percent.

Source: Waterborne Commerce of the United States, Calendar Year 1965, Part 2, National Summaries.

Figure III-1  
 ORIGINS OF GOODS SHIPPED OUT OF TEXAS ON INLAND WATERWAY SYSTEM



More than 87 percent of the 15.4 million tons leaving Texas on the intracoastal waterway entered the system at, or above, Galveston Bay.

is provided in the Appendix. The Galveston Bay area accounted for 49.7 percent of the tonnage leaving the state for points on the intra-coastal and inland waterway system outside the state. Corpus Christi to the Mexican Border segment of the waterway contributed 6.8 percent to the total tonnage.

The movement into Texas is depicted by companion Figure III-2. Additional data on shipments into Texas are presented in the Appendix. In 1970 18.7 million tons entered Texas. Galveston Bay receives more than 54 percent of the terminating tonnage. Only 1.8 percent of the tonnage entering Texas on the intracoastal waterway moves into the lower segment.

It is clear that the upper segments originate and terminate the largest amounts of tonnage. Those segments also receive the full impact of all commodities entering or leaving the state. Below the Galveston Bay area traffic volumes are reduced significantly.

Figure III-3 shows the distribution of receipts and shipments, by percent of tonnage, on the five segments of the intracoastal waterway in Texas and the Texas distribution. The Sabine Neches waterway and Galveston Bay area have a relatively balanced distribution of receipts and shipments. Also, the total movement on the five segments is almost balanced with a 55-45 percent distribution. Three of the waterway segments terminate more tonnage than they originate. The reverse is the case on two waterways which also have the largest percent distribution imbalance. The segment between Sabine and Galveston is the most unbalanced in the state.

Figure III-2  
 DESTINATION OF GOODS SHIPPED INTO TEXAS ON INLAND WATERWAY SYSTEM

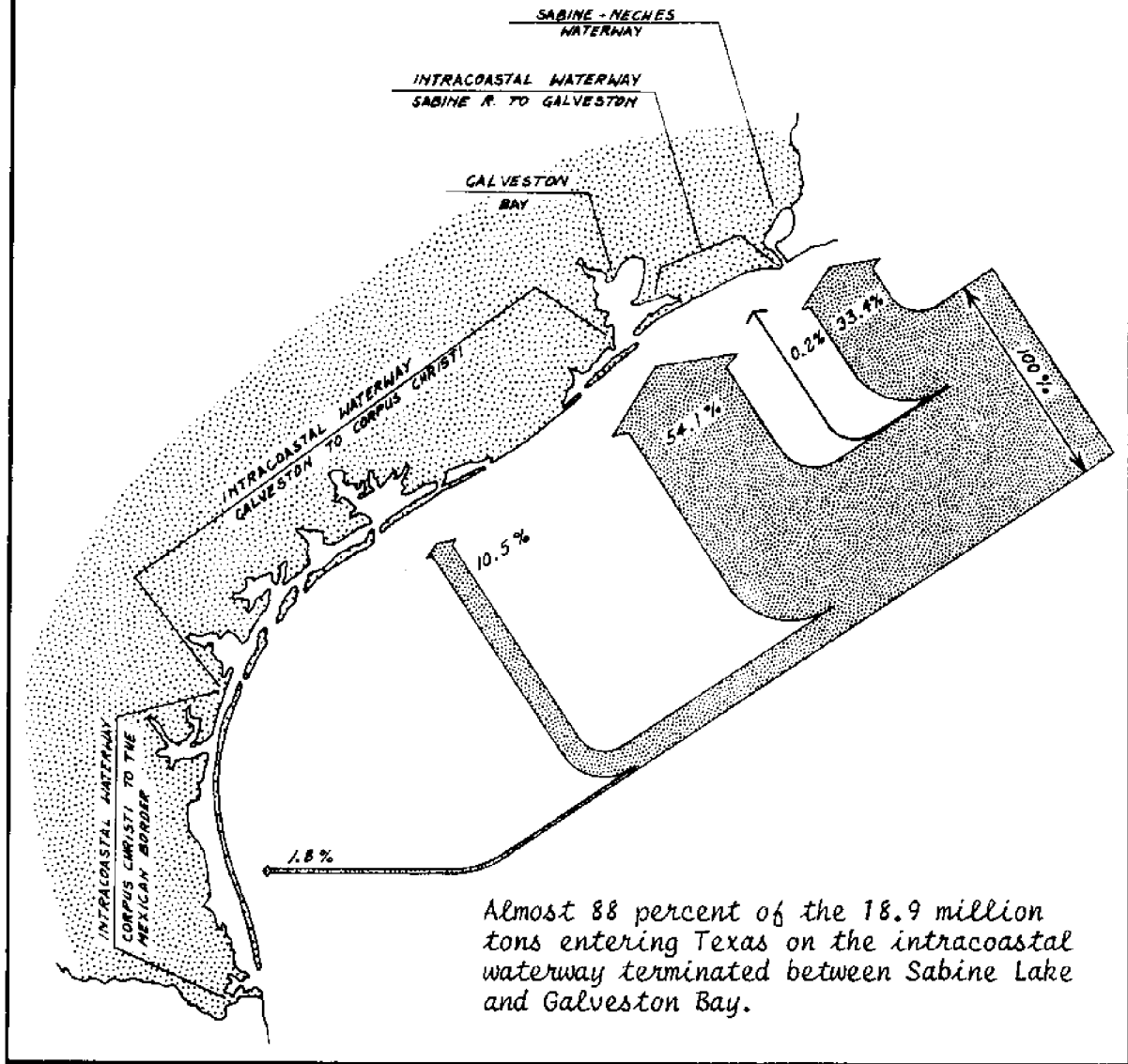
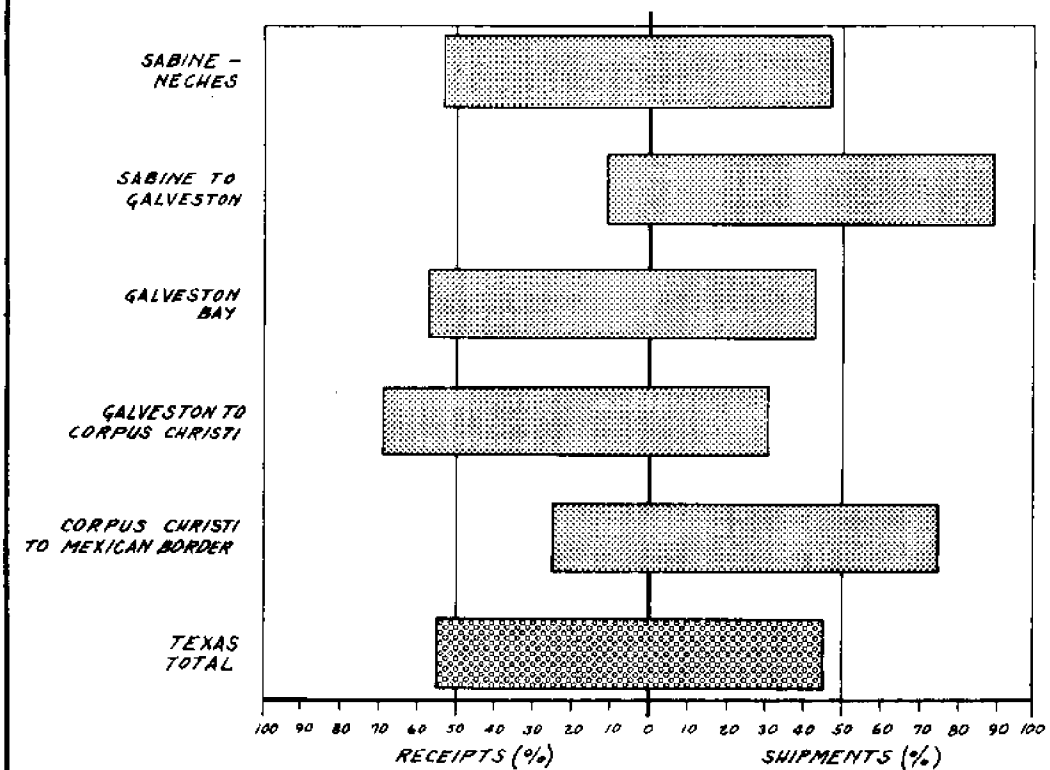


FIGURE III-3 TRAFFIC BALANCE ON INTRACOASTAL WATERWAY SEGMENTS

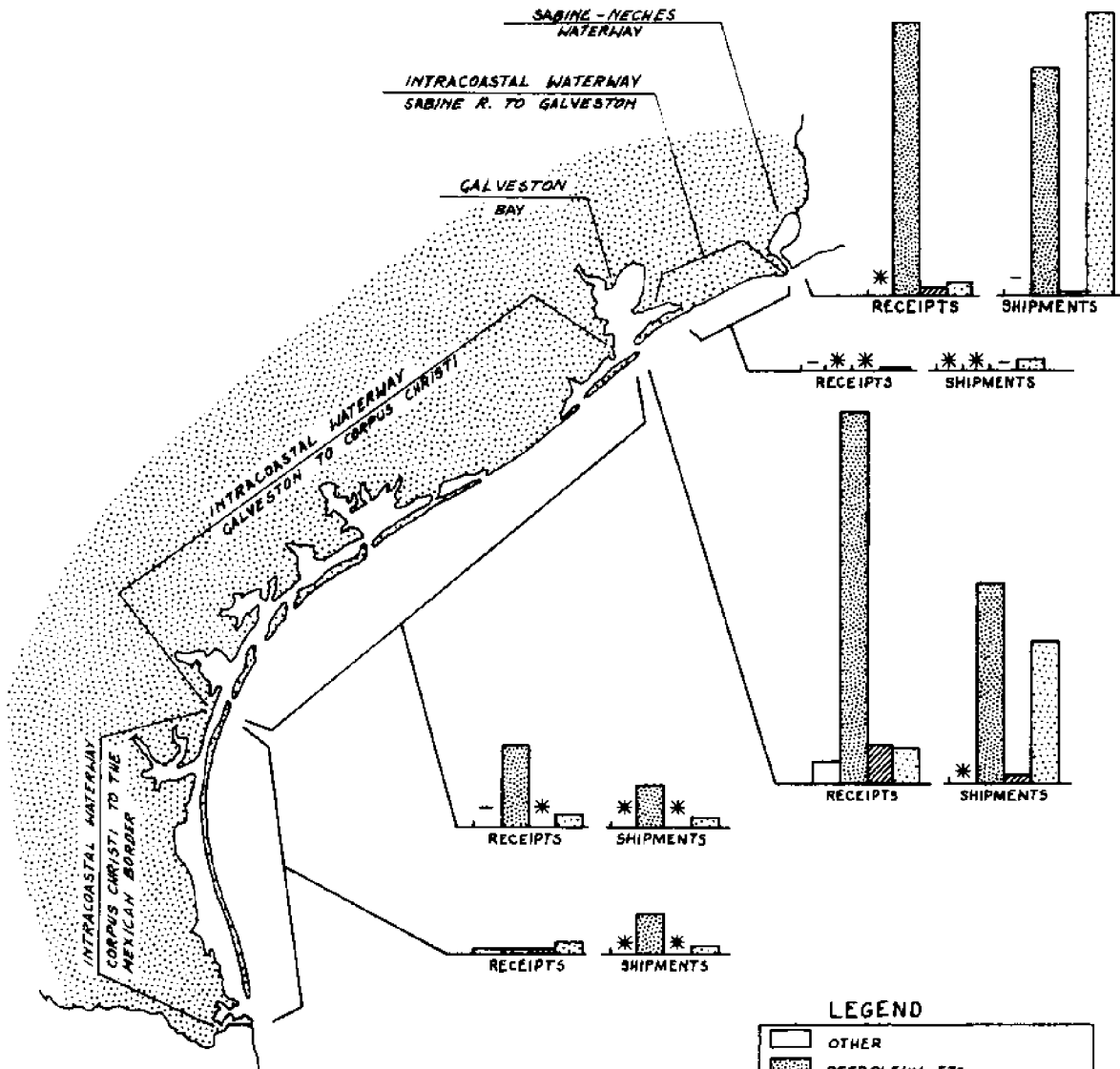


*Some segments of the intracoastal waterway are heavily imbalanced between receipts and shipments. The Texas total, however, is approaching a balanced flow.*

A graphic analysis of the various commodities shipped and received on the five waterway segments is presented in Figure III-4. Petroleum and related products is the major commodity group moving on the intracoastal waterway. In the Sabine-Neches segment the largest commodity group shipped is chemicals and related products. This figure represents only waterborne movements to or from out of state locations and does not include movements within or between waterway segments in the state. It is dramatically apparent that the role of the Texas portion of the intracoastal waterway, in providing access

Figure III-4

INTERSTATE RECEIPTS AND SHIPMENTS OF COMMERCE MOVING ON THE INLAND WATERWAY SYSTEM



Petroleum products comprise the major part of tonnage on all segments of the intracoastal waterway. Chemicals and related products are shipped primarily from the Galveston Bay and Sabine-Neches area.

to inland markets, is confined primarily to the petroleum and chemical industries.

Figure III-5 shows the areas receiving and shipping commodities from and to Texas via the inland waterway system. The areas are a composite of one or more segments of the system and are defined as:

- Gulf Intracoastal Waterway-Sabine River to New Orleans
- Gulf Intracoastal Waterway-New Orleans to Apalachee Bay  
and Contiguous River Systems
- Gulf of Mexico
- Lower Mississippi River System
- Ohio River System
- Tennessee and Cumberland River Systems
- Middle Mississippi River System
- Upper Mississippi and Missouri River Systems
- Illinois River and Great Lakes

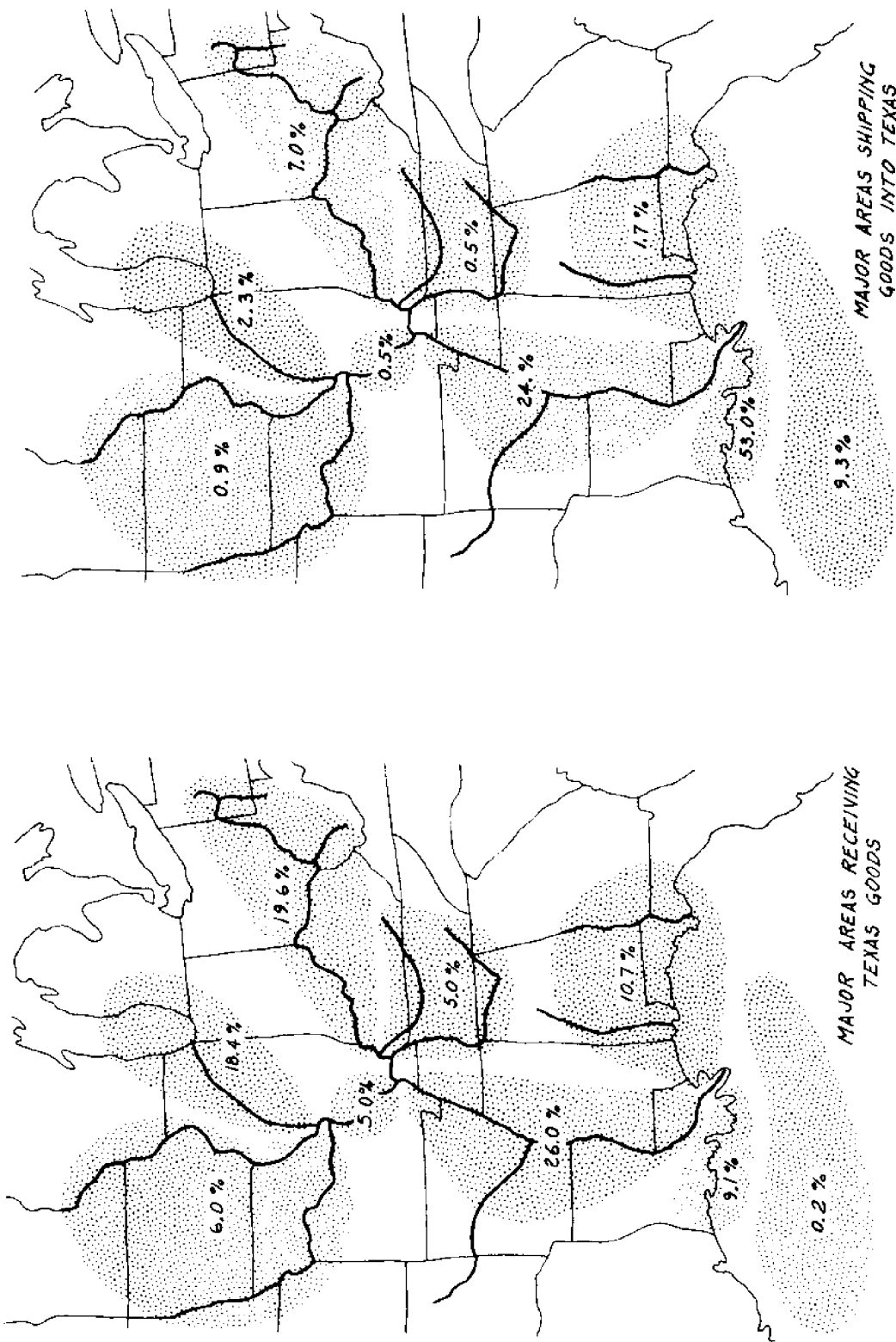
Specific segments comprising each of the nine areas are presented in the Appendix.

The Lower Mississippi River System area received 26 percent of the commodities shipped from Texas. Receipts on the Ohio River System area accounted for 19.6 percent of Texas shipments followed by the Illinois River and Great Lakes area with 18.4 percent of the total. The far-flung nature of Texas shipment and the importance of the inland waterway system are apparent from Figure III-5.

An analysis of each of the areas is shown in Figure III-6. The intracoastal waterway - Sabine River to New Orleans received 9.1 percent of Texas shipments, 80 percent of this is petroleum and related products. Petroleum and related products are the predominant commodities received in all areas with the exception of the Gulf of Mexico. Iron and steel products constitute the only commodity group moving into the Gulf and is undoubtedly related to the drilling activities in the area. On the Ohio River system and the Tennessee and Cumberland






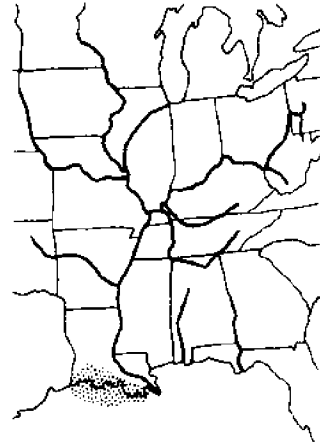
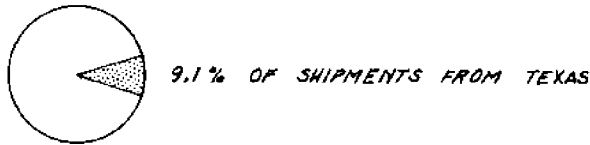
Figure III-5 RECEIVING AND SHIPPING AREAS OUTSIDE TEXAS ON INLAND WATERWAYS






Some striking differences appear between area outside of Texas on the inland waterway system which receive and ship commodities originating or terminating on the intracoastal waterway in Texas. Figures III-6 and III-7 provide a graphic analysis on each of these areas.

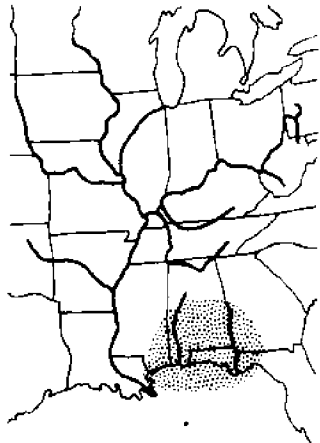
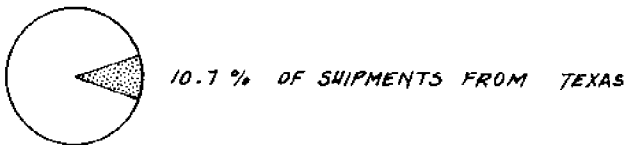
**GULF INTRACOASTAL WATERWAY — SABINE RIVER TO NEW ORLEANS**

PETROLEUM, ETC.	80.0%	
CHEMICALS, ETC.	16.0%	
IRON AND STEEL	5.0%	
OTHER	—	
TOTAL	100%	




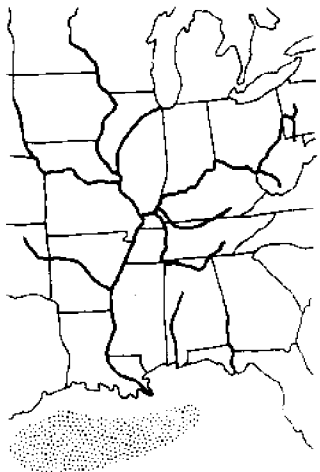
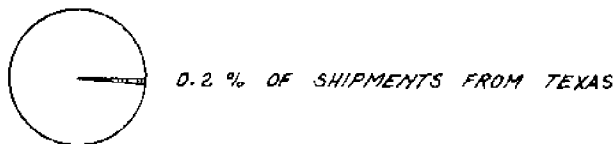
**GULF INTRACOASTAL WATERWAY — NEW ORLEANS TO APALACHEE BAY AND CONTIGUOUS RIVER SYSTEMS**

PETROLEUM, ETC.	63.5%	
CHEMICALS, ETC.	35.8%	
IRON AND STEEL	0.7%	
OTHER	—	
TOTAL	100%	






**GULF OF MEXICO**

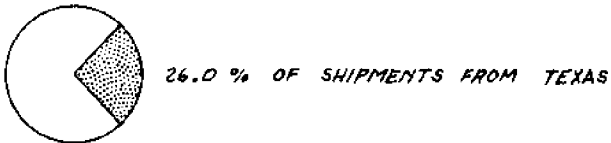
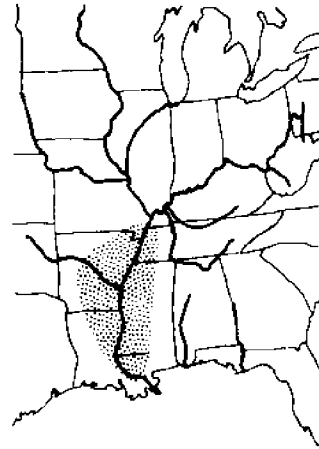
PETROLEUM, ETC.	—	
CHEMICALS, ETC.	—	
IRON AND STEEL	100.0%	
OTHER	—	
TOTAL	100%	






**Figure III-6 DISTRIBUTION OF COMMODITIES SHIPPED FROM TEXAS TO RECEIVING AREAS ON INLAND WATERWAYS**

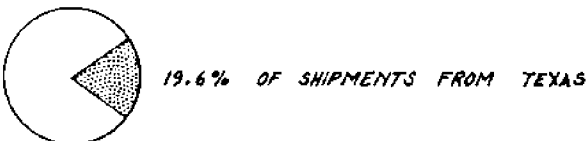
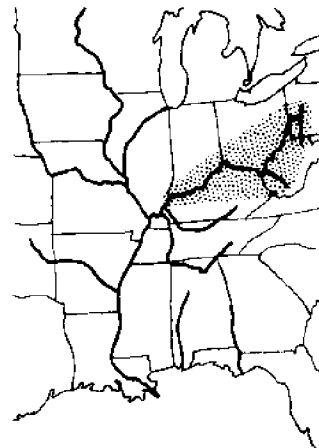
**LOWER MISSISSIPPI RIVER SYSTEM**

PETROLEUM, ETC.	83.0 %	
CHEMICALS, ETC.	16.0 %	
IRON AND STEEL	1.0 %	
OTHER	*	* LESS THAN 0.05 OF ONE PERCENT
TOTAL	100 %	






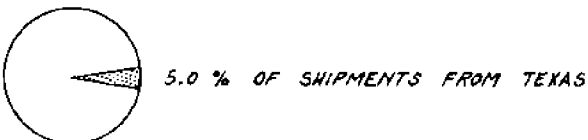
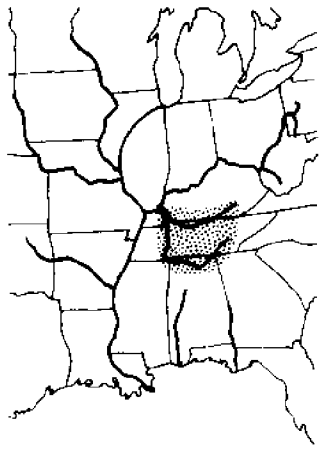
**OHIO RIVER SYSTEM**

PETROLEUM, ETC.	51.3 %	
CHEMICALS, ETC.	47.9 %	
IRON AND STEEL	0.8 %	
OTHER	—	
TOTAL	100 %	






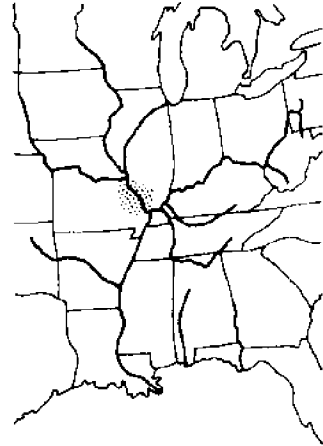
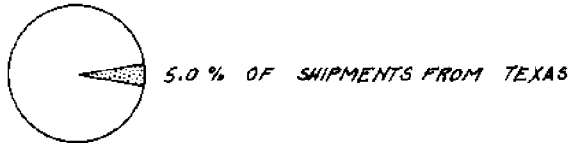
**TENNESSEE AND CUMBERLAND RIVER SYSTEMS**

PETROLEUM, ETC.	49.5 %	
CHEMICALS, ETC.	48.6 %	
IRON AND STEEL	1.9 %	
OTHER	—	
TOTAL	100 %	







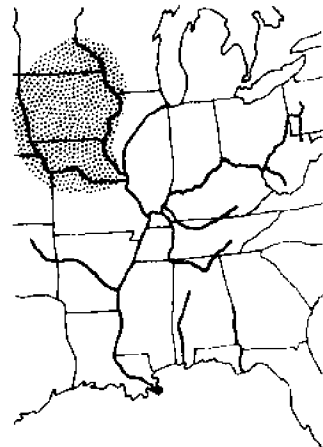
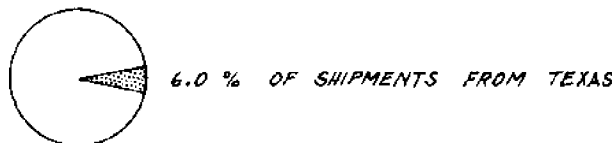
*MIDDLE MISSISSIPPI RIVER SYSTEM*

PETROLEUM, ETC.	77.3%	
CHEMICALS, ETC.	22.6%	
IRON AND STEEL	0.1%	
OTHER	—	
TOTAL	100%	







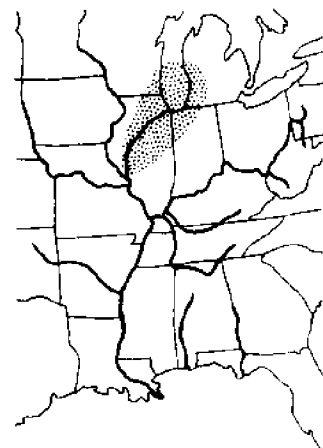
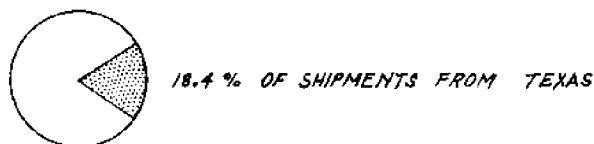
*UPPER MISSISSIPPI AND MISSOURI RIVER SYSTEMS*

PETROLEUM, ETC.	69.2%	
CHEMICALS, ETC.	30.1%	
IRON AND STEEL	0.6%	
OTHER	0.1%	
TOTAL	100%	



*ILLINOIS RIVER AND GREAT LAKES*

PETROLEUM, ETC.	67.6%	
CHEMICALS, ETC.	31.2%	
IRON AND STEEL	1.0%	
OTHER	0.2%	
TOTAL	100%	



III-6 Cont.

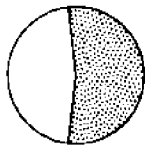
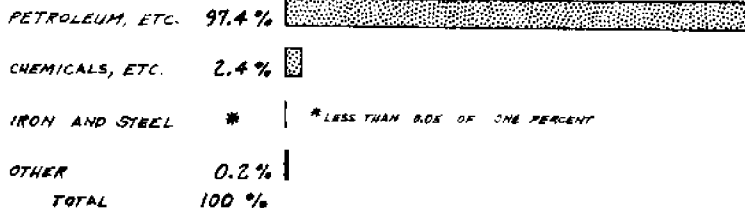
River Systems the distribution of receipts is almost equal for both petroleum products and chemical products.

Texas receives 53 percent from points on the intracoastal waterway between the Sabine River and New Orleans. The Lower Mississippi River area originates 24 percent of the shipments terminating in Texas. A comparison of the data in Figure III-5 indicates some striking differences. For example, the Illinois River and Great Lakes area terminated 18.4 percent of Texas shipments while originating only 2.3 percent of the shipments into the State.

Figure III-7 presents an analysis of the out of state shipping areas by commodities. Petroleum is the leading commodity received on Texas waterways from five of the areas while iron and steel products predominate in three areas. Chemicals and related products are the leading commodities received from points on the intracoastal waterway and contiguous rivers east of New Orleans. It is apparent from a comparison of Figures III-6 and III-7 that a completely different mix of commodities enter Texas than that leaving the State.

Table III-5 shows the distribution of commodities received and shipped outside of Texas waterways during 1965. A comparison of these data with the preceding figures indicates that only minor changes occurred between the two periods. In the Ohio River System the receipt of Texas commodities has declined from 25.6 percent in 1965 to 19.6 percent in 1970. The Lower Mississippi River System and the Illinois River and Great Lakes Areas had increases in their share of Texas shipments. It appears that the market and supply points outside of the

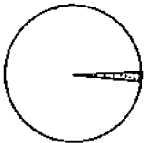
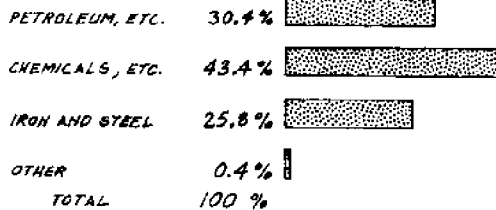
**GULF INTRACOASTAL WATERWAY —  
SABINE RIVER TO NEW ORLEANS**



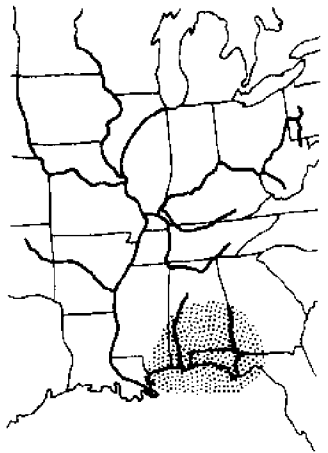
53.0 % OF TOTAL TEXAS RECEIPTS



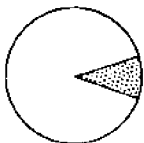
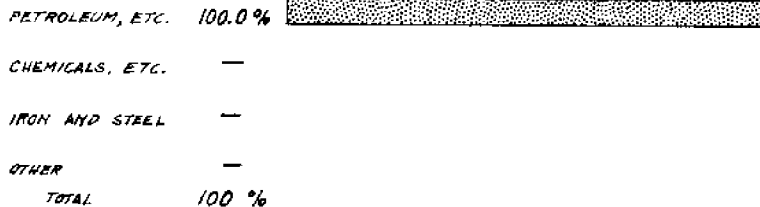
**GULF INTRACOASTAL WATERWAY — NEW ORLEANS TO  
APALACHEE BAY AND CONTIGUOUS RIVER SYSTEMS**



1.7 % OF TOTAL TEXAS RECEIPTS



**GULF OF MEXICO**



9.3 % OF TOTAL TEXAS RECEIPTS

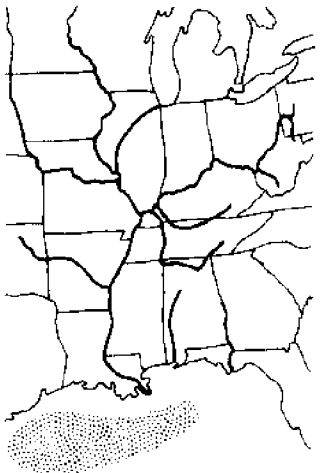




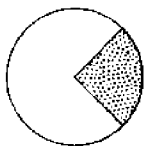


Figure III-7

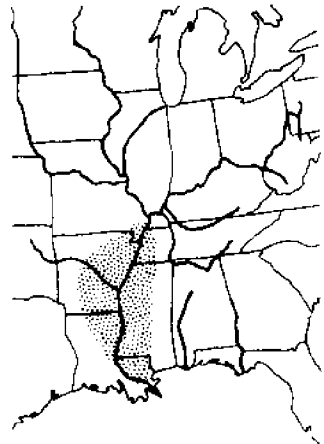
DISTRIBUTION OF COMMODITIES RECEIVED IN TEXAS  
FROM SHIPPING AREAS ON INLAND WATERWAYS

**LOWER MISSISSIPPI RIVER SYSTEM**





PETROLEUM, ETC.	83.2%	
CHEMICALS, ETC.	14.2%	
IRON AND STEEL	1.3%	
OTHER	1.3%	
TOTAL	100%	

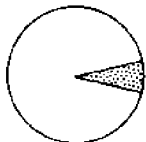


24.8% OF TOTAL TEXAS RECEIPTS

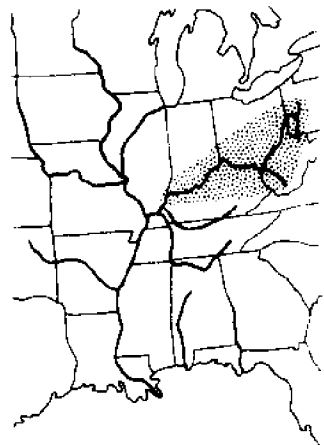


**OHIO RIVER SYSTEM**



PETROLEUM, ETC.	5.3%	
CHEMICALS, ETC.	23.4%	
IRON AND STEEL	40.9%	
OTHER	30.4%	
TOTAL	100%	

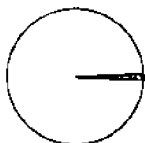


7.0% OF TOTAL TEXAS RECEIPTS

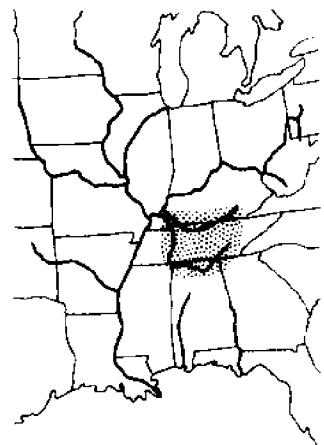


**TENNESSEE AND CUMBERLAND RIVER SYSTEMS**

PETROLEUM, ETC.	73.5%	
CHEMICALS, ETC.	26.5%	
IRON AND STEEL	—	
OTHER	—	
TOTAL	100%	

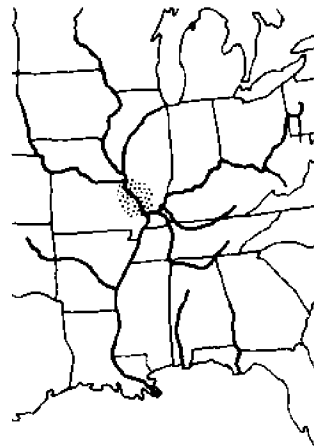
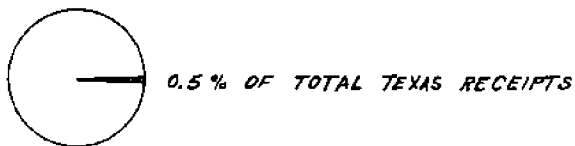
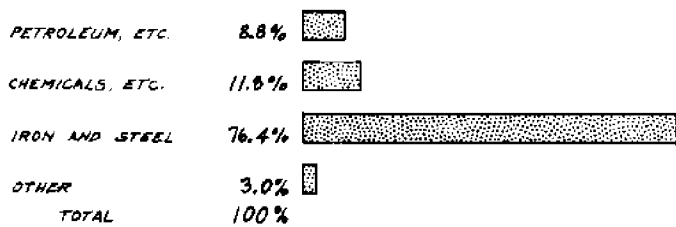


0.5% OF TOTAL TEXAS RECEIPTS

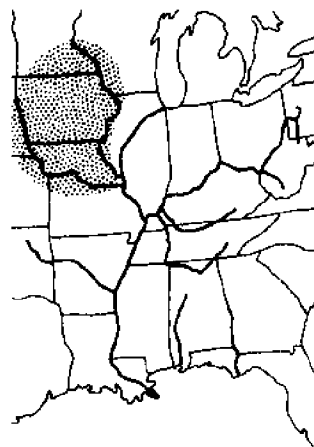
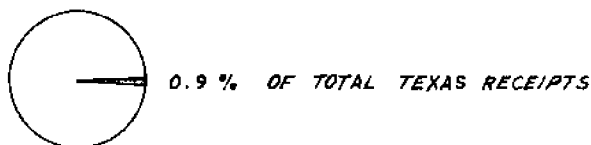
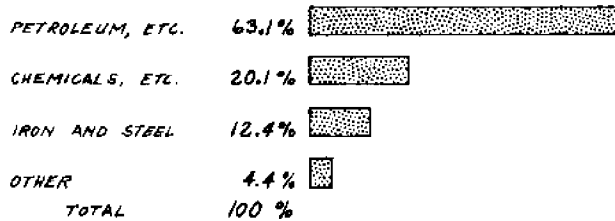


III-7 Cont.

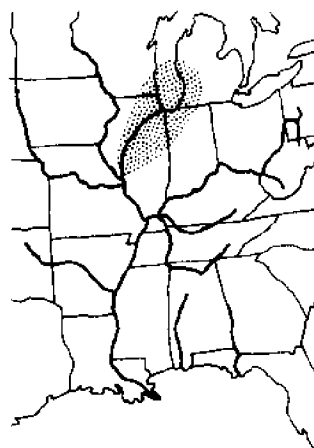
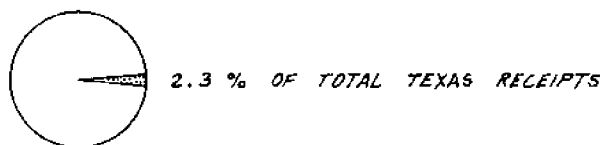
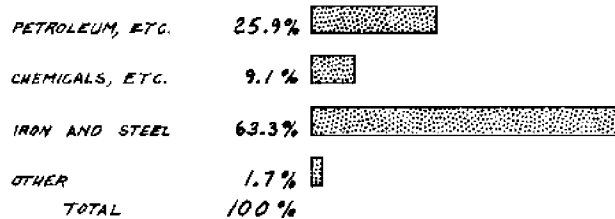
**MIDDLE MISSISSIPPI RIVER SYSTEM**



**UPPER MISSISSIPPI AND MISSOURI RIVER SYSTEMS**



**ILLINOIS RIVER AND GREAT LAKES**





state maintained a relatively stable share of total receipts and shipments.

The preceding figures have described those areas shipping commodities into Texas and receiving goods from the state. It is important to understand the dependency of the economy of Texas on the entire inland waterway system of the nation. Under these circumstances it is important that the state take an active interest--not only in the intracoastal waterway but in the complete inland waterway system outside Texas. Projects which promote efficiency of waterborne commerce will tend to improve the competitive position of Texas industry.

Table III-5  
MAJOR AREAS ON INLAND WATERWAY SYSTEM:  
RECEIPT AND SHIPMENTS OF TEXAS  
COMMODITIES, 1965

WATERWAY AREA	PERCENT OF TOTAL	
	SHIPMENTS FROM TEXAS	RECEIPTS INTO TEXAS
Gulf Intracoastal Waterway: Sabine River to New Orleans	11.7%	58.3%
Gulf Intracoastal Waterway: New Orleans Apalachee Bay and Contiguous River Systems	12.3	3.0
Gulf of Mexico	---	6.0
Lower Mississippi River System	22.8	21.2
Ohio River System	25.6	7.8
Tennessee and Cumberland River System	4.4	0.2
Middle Mississippi River System	2.8	0.4
Upper Mississippi and Missouri River System	4.6	0.7
Illinois River and Great Lakes	15.8	2.4
Total	100.0%	100.0%

### Texas Intrastate Traffic

Intrastate waterborne commerce in Texas for 1970 was 15.3 million tons compared to 16.3 million tons in 1965. Intrastate movements are vital to the industrial base of the Texas coast and represent a significant volume of total traffic on the waterways. In addition, considerable tonnage terminates in the segment in which it originates.

Table III-6 shows the intrastate movement between the intra-coastal waterway within the state. Galveston Bay segment originated 42.4 percent and terminated 45.9 percent of the interstate tonnage. It should be noted however, that 3.8 million tons, more than half originations or terminations, moved only within the Galveston Bay segment. The data indicate that the Corpus Christi-Mexican Border segment is second in both receipts and shipments. This is contrary to the preceding information for this segment concerning tonnage into and out of the state. It is apparent that the two lower segments of the intracoastal waterway perform a different function in intrastate commerce when compared to interstate commerce. Additional data on intrastate traffic flows for 1965 and 1970 are presented in the Appendix.

Figure III-8 depicts the tonnage volume moving on the intra-coastal waterway from Sabine Lake to the Mexican Border. According to the data the high impact segment is Galveston Bay with over 11 million tons of traffic. The Galveston Bay to Corpus Christi segment carries a load of over 6.5 million tons. This is only intrastate commerce and does not include that tonnage either entering or leaving the state. It cannot be over-emphasized that the intra-coastal canal segments in Texas are not only an important part of

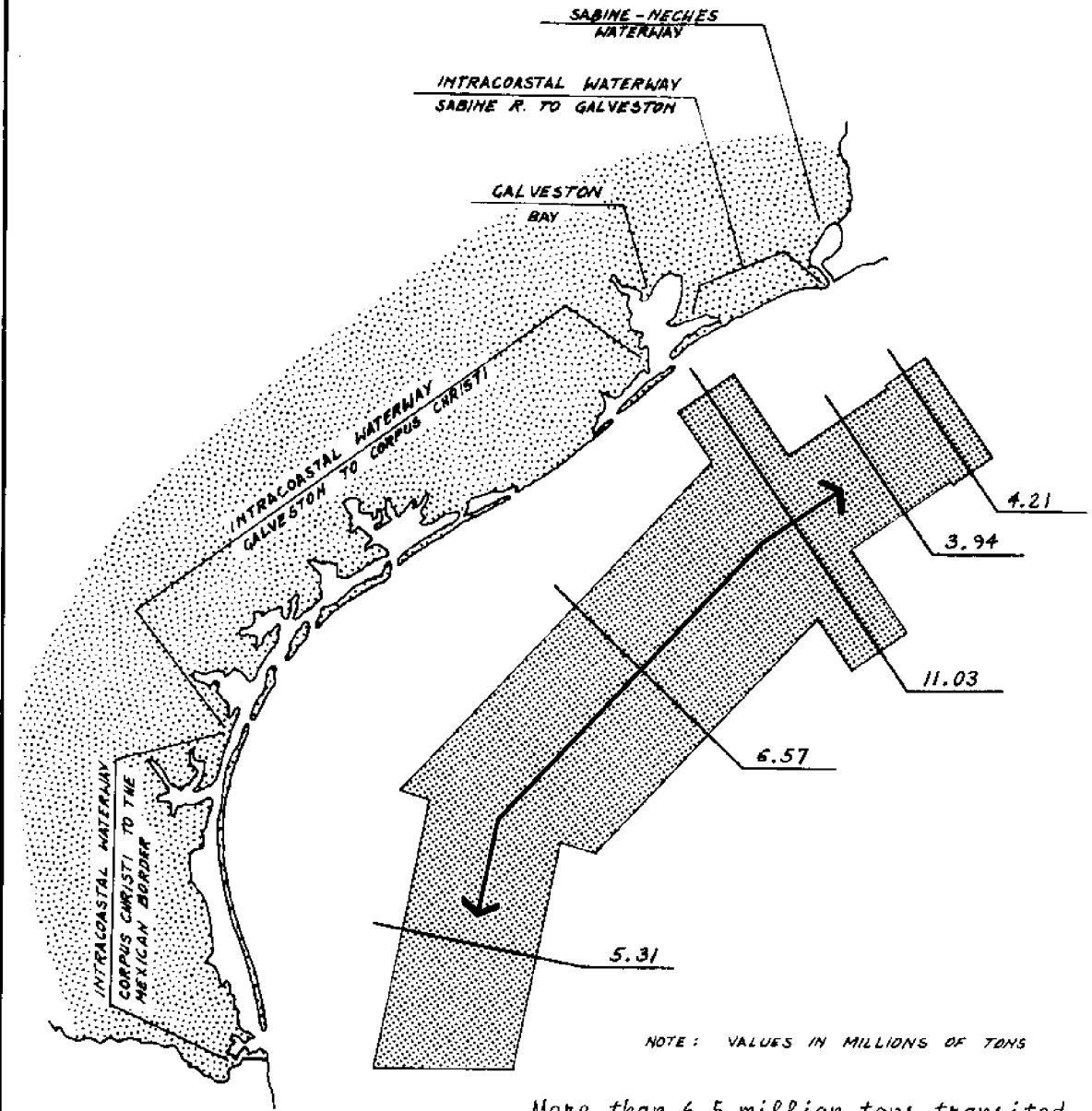
Table III-6

TEXAS INTRASTATE WATERBORNE COMMERCE  
BETWEEN WATERWAYS, IN TONS, 1970

Texas Shipping Segment	Texas Receiving Segment					Percent Of Total
	Sabine-Neches	Sabine Galveston	Galveston Bay	Galveston-Corpus Christi	Corpus Christi-Mexican Border	
Sabine-Neches Waterway	806,291	66,519	917,517	174,879	191,708	2,156,914 14.1
Sabine-Galveston	21,788		471,720			493,508 3.2
Galveston Bay	1,054,534	64,614	3,845,994	938,060	587,912	6,491,114 42.4
Galveston-Corpus Christi	120,074		898,150	618,414	929,966	2,566,604 16.8
Corpus Christi-Mexican Border	860,536	1,505	901,732	351,160	1,489,609	3,604,542 23.5
Total	2,863,223	132,638	7,035,113	2,082,513	3,199,195	15,312,682
Percent of Total	18.7	0.9	45.9	13.6	20.9	100.0

Figure III-8

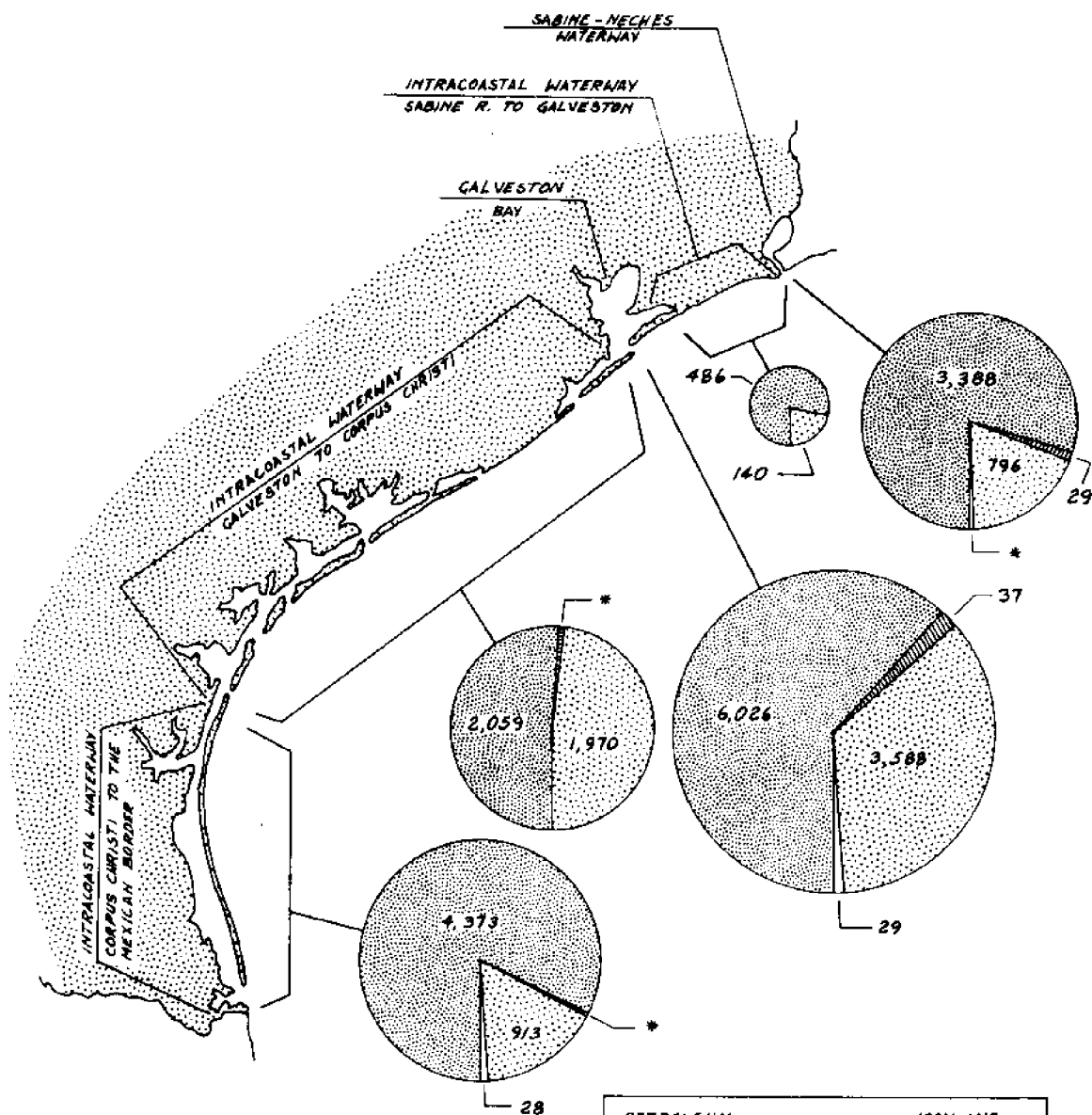
VOLUME OF INTRASTATE MOVEMENT ON TEXAS INLAND WATERWAY SYSTEM



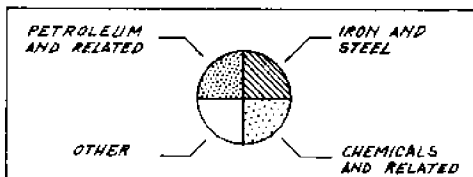
NOTE: VALUES IN MILLIONS OF TONS

More than 6.5 million tons transited the Galveston-Corpus Christi segment in intrastate commerce compared to 4.3 million tons which moved in interstate commerce.

Figure III-9 INTERSTATE ACTIVITY ON TEXAS INLAND WATERWAY SYSTEM



Petroleum and related products are the major commodities transported on all segments of the Texas portion of the intra-coastal waterway.



NOTE: VALUES REPRESENT THOUSANDS OF TONS  
\* LESS THAN FIVE THOUSAND TONS

the entire inland waterway system but provide a valuable service to intrastate traffic.

A distribution of commodities moving over the waterway segments in Texas is shown in Figure III-9. As should be expected from data presented in previous sections, petroleum and related products are the major items moving over the waterway in intrastate commerce followed by chemicals and related products. Petroleum and related products represent, at a minimum, half of the total tonnage.

## CHAPTER IV

## CHAPTER IV

### EMPLOYMENT IN INDUSTRY GROUPS ENGAGED IN WATERBORNE COMMERCE

The economy of the state and especially those areas of Texas contiguous to the Gulf of Mexico is dependent on waterborne commerce. Many industries have a water transportation requirement far in excess of what would normally be expected. These highly dependent industries are susceptible to any condition which impedes the free flow of waterborne commerce. In addition, some industries with a high propensity for water transportation make substantial demands on land transportation facilities.

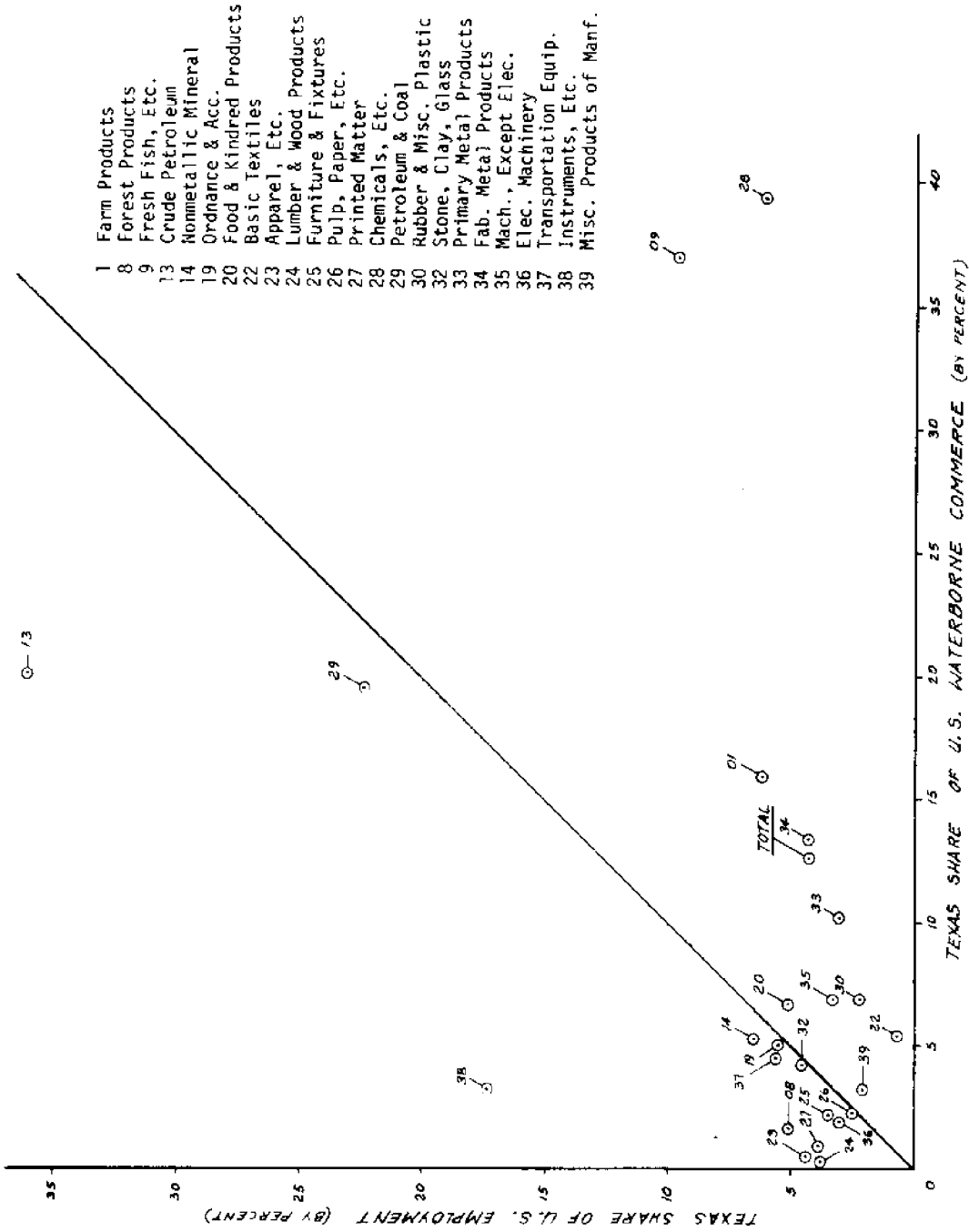
An analysis of the Texas' share of U. S. waterborne commerce and Texas' share of U. S. employment by S.I.C. groups yields some interesting information on a comparison of those two ratios. Figure IV-1 and IV-2 are plots of these two ratios for 1970 and 1965 respectively. It should be noted that several industry groups form the core of the economic base of Texas and coastal region. The 45 degree line depicts the point of equal value between employment shares and waterborne commerce share.

Data points to the right of the 45 degree line identify those industry groups which use water transport to a greater extent than would be expected based on their share of U. S. employment. Water movements at Texas ports of industry group 28 is almost 40 percent of all U. S. waterborne movements for this group but Texas share of employment is less than 10 percent of U. S. total.

Industry groups to the left of the 45 degree line account for a

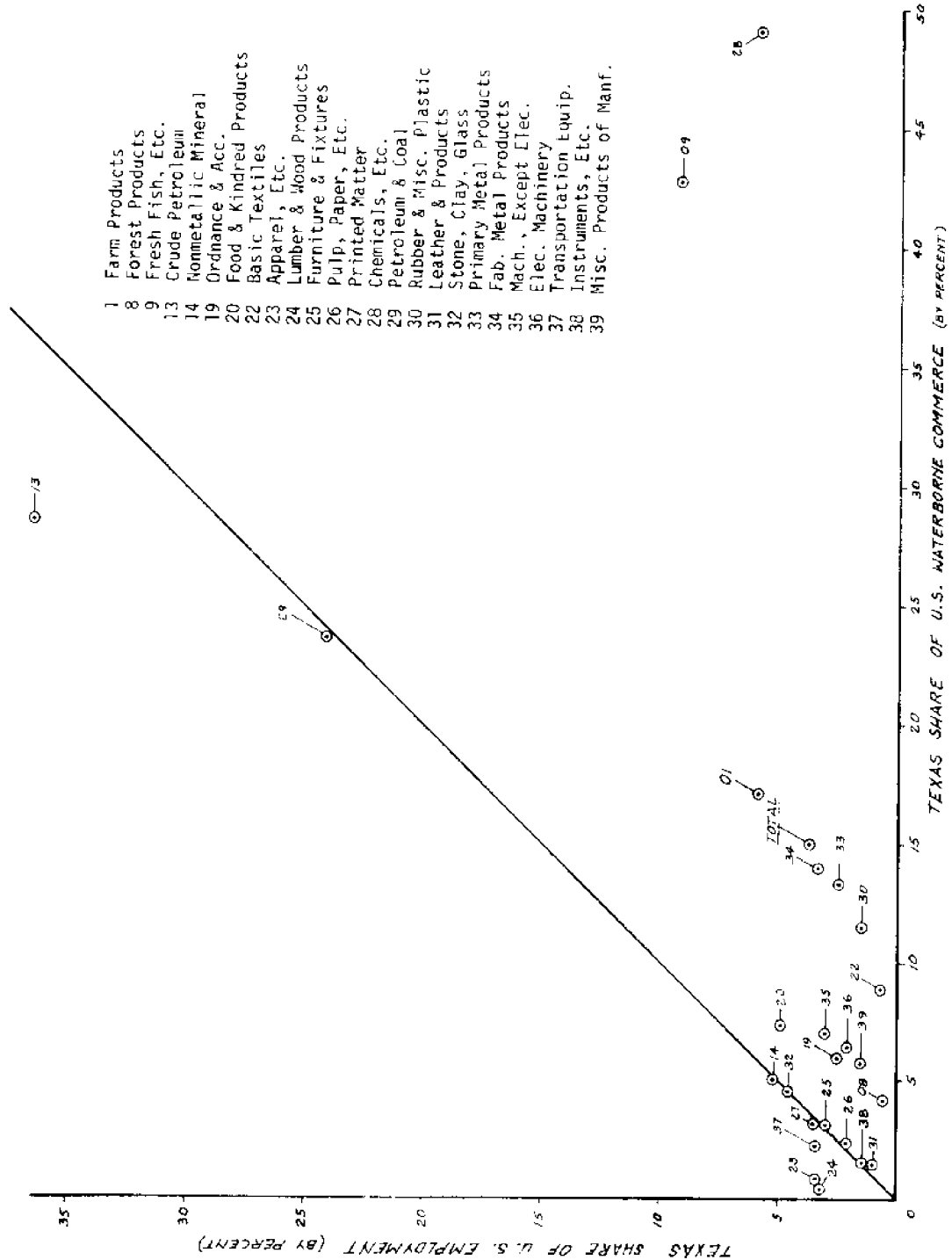


Figure IV-1 TEXAS EMPLOYMENT WATERBORNE COMMERCE SHARES, 1970



The relationship between the share waterborne commerce activity at Texas Ports and the state share of Employment illustrates the interdependency of waterborne trade and the industrial base.

Figure IV-2 TEXAS EMPLOYMENT WATERBORNE COMMERCE SHARES, 1965



larger share of U. S. employment than waterborne commerce. In industry group 38 Texas accounts for approximately 18 percent of the U. S. employment but Texas ports receive and ship less than .5 percent of the tonnage at all U. S. ports.

The larger cluster of industry groups in the lower left of the figure indicates that Texas share of employment corresponds with the Texas ports share of the waterborne commerce market. Industry group 29, petroleum and coal products, show a striking relationship between employment share and waterborne commerce share for both time periods. For most industry groups only minor shifts in position occurred between the two time periods. Industry group 38, however, shows significant change in 1970 over 1965. This may be due to increased imports from Japan at West Coast ports for this group.

It is important to identify those industries which place an extraordinary demand on water transport facilities. This is especially true if they are fast growing industries of the state. It is apparent that water transport facilities must be maintained if Texas is to maintain its traditional share of employment.

In other groups the indications are that commodities transit the state prior or subsequent to movement through Texas ports. Agricultural commodities, especially grains, are perhaps a prime example of these groups. For these industries adequate land transportation is of major concern; this may mean either physical facilities or economic consideration. This implies that for these commodities the ports of the state do not exist in a vacuum but depend on other modes for their continued survival. Since the Texas ports claim the entire middle of

the nation as their market it is not surprising that many industry groups are to the right of the 45 degree line.

## CHAPTER V

## CHAPTER V

### CONCLUSION

This study has primarily examined statistical information regarding commodity movements at Texas ports and waterways. Only statistics on tonnage, and not value, were presented in this report. Every effort was made to present the information in a clear and concise fashion but at the same time provide it in a format which could be used by private and public groups for management and policy guidelines.

It became clear to the research staff involved in the study that the statistical information presented a striking picture of port activity within the state. At the same time, however, questions arose concerning the current and future status of waterborne commerce in the state. Why, for instance, has traffic volume at Texas ports failed to remain on par with total U. S. volume?

An attempt has been made in this report to explicitly portray the far reaching interest of Texas in a viable inland waterway system. The value of this system to the economy of the state cannot be underestimated. It should be of major concern to every citizen and state official what happens throughout the inland waterway system of the Nation's mid-section. Interruptions at any point can adversely affect industry and employment in Texas.

These statistics highlight, among other things, the role of waterborne commerce to the economy of Texas. During the study several facts emerged which have a direct bearing on the future of the State.

1. Texas is highly dependent on water transportation especially as it serves the petroleum, chemical, agricultural and mineral related industries.
2. Texas is a major trader with the hinterland via the intracoastal and inland waterway system. Significant volumes of commodities move between Texas and locations on the Mississippi, Ohio, and Illinois Rivers and segments of the intracoastal waterway. The Port of Chicago is one of the major receiving locations of Texas shipments while the segment of the intracoastal waterway between New Orleans and Sabine River is a major originating area.
3. Texas' share of the waterborne commerce market has declined in recent years. The reasons for this decline are not available directly from the statistics. For this reason some State interest may be warranted.
4. Large volumes of waterborne traffic on the Texas section of the intracoastal waterway moves entirely within the State.
5. Texas ships considerably more tonnage than it receives in both foreign and domestic coastwise trade. Although domestic internal receipts exceed shipments, the flow of commodities into and out of Texas on the intracoastal waterway has only minor imbalance.
6. Crude petroleum is the major commodity entering and petroleum products are the commodities leaving the State in domestic coastwise and internal trade.
7. Metallic ores and crude petroleum are the major commodities entering and farm products and chemicals the commodities leaving Texas in foreign commerce. These farm products moved to Texas

ports by surface transport, largely from out of state.

8. Total tonnage at Texas ports moving in foreign trade increased 4 million tons in 1970 over 1965 while domestic coastwise traffic declined by a corresponding amount during the same period. Traffic on the intracoastal waterway, however, increased by almost 8 million tons. Despite this absolute increase Texas' share of foreign, domestic coastwise and internal tonnage declined relative to the rest of the Nation.
9. Several of the major ports in the State have serious traffic imbalances.

These are only a few of the salient facts available from the statistical information presented. While some are encouraging others provide a basis for concern and action on a State level.

It is important to note that a substantial volume of traffic moves on the intracoastal waterway within Texas. This intrastate movement highlights the importance of the entire area from Sabine Lake to the Mexican Border rather than the segments of high interstate activity. The large volume of waterborne commerce, which originates and terminates, within the state, symbolizes the vital characteristic of this mode and the need for State involvement in this area.

An examination of the data presented in this report illustrates the close connection between most ports and waterways in the state and the petroleum and chemical industries. While this relationship has been acknowledged, the full extent has not always been recognized. This joint dependency, however, is manifested in all phases of waterborne trade. In both foreign and domestic trade the industries in



the state must have adequate waterway facilities for their continued survival.

A functional classification of ports needs to be developed which will aid in planning and future growth. Some ports have high foreign imports while others mainly export. Others are primarily receiving ports (foreign and domestic) while the reverse is evident at other ports. Each facility has characteristics peculiar to the industry groups served. Although effort has been made to identify these characteristics, additional work is needed. If the State becomes involved in promotional activities of Texas waterborne commerce, this information could prove invaluable by providing guidelines for planning and assisting the ports towards orderly growth.

The data showing the market share of waterborne commerce controlled by Texas ports contains some very useful and informative statistics. These need to be examined at frequent intervals to determine if the State is maintaining its traditional position. More importantly, however, is the need to identify any slippage for possible corrective action.

## AREAS OF ADDITIONAL RESEARCH AND INTEREST

The scope of this report is limited to an analysis of Texas waterborne commerce statistics. The statistics, in themselves, provide some valuable insight into activity at Texas ports and waterways and identify certain trends relative to future activities. The study did not examine, nor address itself to, a deep water super port off the Texas coast. While this question and its' ultimate solution is perhaps vital to Texas interest, commodity flow statistics alone cannot provide a final answer. The statistics do, however, suggest certain areas of additional research which can shed additional light on the super port controversy.

One of the primary areas which warrants further study is the relationship between foreign, coastwise, and internal traffic. Since almost 80 percent of the total tonnage handled at Texas ports moves in domestic trade the relationship between this traffic needs to be examined in discussions regarding the location of a superport. For instance, if a superport serves only foreign trade, will the loss of this traffic adversely impact Texas coastwise and internal trade and the industries dependent on this traffic.

An examination of the data in Chapter IV suggest the importance of waterborne commerce to employment in specific industry groups in Texas. The future of many Texas jobs is based on the future of the petro-chemical industry. As domestic requirements for these products increase and domestic crude stocks decrease, increased reliance will be placed on foreign supplies. If Texas should be unsuccessful in securing a deep water facility, a loss of employment in these

industries may result.

Failure to secure a super port could have impact outside areas and industries previously mentioned. Many of these relationships have not yet been fully explored. Since Texas is a leader in coast-wise and internal trade the relation of foreign trade to these areas should be ascertained. If foreign trade acts as a stimulus on other port activities, albeit constituting a small share of total tonnage, the lack of a super port could adversely impact the economy of the entire state.

The statistics indicate that large volumes of traffic moving on the waterways are liquid petroleum and chemical products which could present a pollution and safety problem on the waterways and in turn the beaches of the State. Considerable tonnage moves the length of the State and programs to minimize the danger of pollution should be explored.

As was previously asserted, the Texas' share of the waterborne commerce market has declined and only minor absolute growth has occurred in total tonnage moving at Texas ports over the past six years. The statistics do not indicate the cause of this situation. It is important, however, to both the State and waterborne related industries to isolate the cause or causes. This condition may be the result of a sluggish economy or labor problems at the ports or some deep-rooted technical or institutional constraint. It is important, however, to identify the cause and take corrective action where applicable.

Finally, these statistics and the problems and trends which they identify suggest the need for some policy decisions at both the public and private level. What action could be taken by the State or

industry groups to promote waterborne commerce to the advantage of the Texas economy? The relationship of employment and waterborne commerce activity presents some interesting implications if Texas' share of the waterborne commerce market continues to decline. The question of what can be done to change the direction of certain trends needs to be explored. Texas government and industry may discover that their scope of interest extends not only to an off-shore super port but includes labor problems at Atlantic ports and waterway improvements on the Ohio River.

**APPENDIX TABLE A**

**Table A-1**  
**COMPARISON OF TOTAL ACTIVITY AT U.S. PORTS AND WATERWAYS 1965 & 1970**  
 IN TONS

Commodity Group	1965	Percent Of Total	1970	Percent Of Total	Percent Change 1965 - 1970
01 Farm Products	82,373,438	6.5	90,399,241	5.9	9.7
08 Forest Products	894,922	0.1	1,077,542	0.1	20.4
09 Fresh Fish	26,978,892	2.1	22,962,548	1.5	- 14.9
10 Metallic Ores	146,886,138	11.5	154,019,573	10.1	4.9
11 Coal	207,112,236	16.3	225,417,211	14.7	8.8
12 Crude Petroleum	155,551,104	12.2	210,480,417	13.7	35.3
14 Nonmetallic Minerals	144,816,199	11.4	166,561,487	10.9	15.0
19 Ordnance & Accessories	24,301	*	16,654	*	- 31.5
Food & Kindred					
20 Products	28,324,023	2.2	34,986,137	2.3	23.5
21 Tobacco Products	72,381	*	93,693	*	29.4
22 Basic Textiles	1,562,559	0.1	1,425,165	0.1	- 8.8
23 Apparel, etc.	162,079	*	310,090	*	91.3
24 Lumber & Wood Products	38,956,717	3.1	49,924,035	3.3	28.2
25 Furniture & Fixtures	119,381	*	300,837	*	152.0
26 Pulp, Paper & etc.	10,247,818	0.8	12,765,348	0.8	24.6
27 Printed Matter	110,458	*	158,451	*	43.4
28 Chemicals & etc.	37,050,055	2.9	61,979,910	4.0	67.3
29 Petroleum & Coal	317,907,996	25.0	394,726,871	25.8	24.2
30 Rubber & Misc.	311,377	*	498,042	*	59.9
31 Leather	197,756	*	319,654	*	61.6
32 Stone, Clay & Glass	12,699,264	1.0	16,642,403	1.1	31.4
33 Primary Metal Prod.	28,037,667	2.2	42,355,129	2.8	51.1
34 Fabricated Metal Prod.	2,145,205	0.2	2,359,534	0.2	10.0
Machinery, Except					
35 Electrical	2,240,132	0.2	3,256,012	0.2	45.3
36 Electrical Machinery	714,741	0.1	1,260,663	0.1	76.4
37 Transportation Equip.	2,629,399	0.2	3,824,579	0.2	45.5
38 Instruments	91,114	*	126,577	*	38.9
39 Misc. Products of Mfg.	4,917,371	0.4	1,519,359	0.1	- 69.1
40 Waste & Scrap	15,793,555	1.2	25,889,906	1.7	63.9
41 Special Items	3,997,965	0.3	6,039,439	0.4	51.1
Total	1,272,896,243	100.0	1,531,696,507	100.00	20.3

\* Less than 0.05 Percent

Table A-2

DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE FROM TEXAS TO  
INTERSTATE DESTINATIONS BY WATERWAY SEGMENTS, 1970

Texas Shipping Area	Commodity (Tons)					Total	Percent Of Total
	Grain	Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway			4,941,110	46,132	614,284	5,601,526	36.3
Sabine-Galveston		688	6,157		222,962	229,807	1.5
Galveston Bay	11,253	5,091	4,410,815	148,343	3,101,766	7,677,268	49.7
Galveston-Corpus Christi			369,951		507,345	877,296	5.7
Corpus Christi-Mexican Border	1,316		872,540	10,798	161,457	1,046,111	6.8
Total	12,569	5,779	10,600,573	205,273	4,607,814	15,432,008	100.0

Table A-3  
 DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE INTO TEXAS  
 FROM INTERSTATE ORIGINS BY WATERWAY SEGMENTS, 1970

Texas Receiving Area	Commodity (Tons)					Total	Percent Of Total
	Grain	Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway	5,569		5,962,504	118,335	243,158	6,329,566	33.5
Sabine-Galveston			1,393	943	25,039	27,375	.1
Galveston Bay	70,609	360,404	8,173,459	851,087	773,815	10,229,374	54.1
Galveston-Corpus Christi			1,752,664	250	231,822	1,984,736	10.5
Corpus Christi - Mexican Border	57,873		42,417	56,970	191,357	348,617	1.8
Total	134,091	360,404	15,932,417	1,027,585	1,465,191	18,919,688	100.0



Table A-4

DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE FROM TEXAS TO INTRASTATE  
AND INTERSTATE DESTINATIONS BY WATERWAY SEGMENTS, 1970

Texas Shipping Area	Commodity (Tons)					Percent Of Total	
	Grain	Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		Total
Sabine-Neches Waterway			6,509,898	50,264	1,198,278	7,758,440	25.2
Sabine-Galveston		688	491,210		231,417	723,315	2.4
Galveston Bay	39,118	6,526	8,275,198	180,481	5,667,059	14,168,382	46.1
Galveston-Corpus Christi			1,800,187		1,643,713	3,443,900	11.2
Corpus Christi-Mexican Border	1,316		3,842,241	11,712	795,384	4,650,653	15.1
Total	40,434	7,214	20,918,734	242,457	9,535,851	30,744,690	100.0

Table A-5

DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE INTO TEXAS FROM INTRASTATE  
AND INTERSTATE ORIGINATIONS BY WATERWAY SEGMENTS, 1970

Texas Receiving Area	Commodity (Tons)					Total	Percent Of Total
	Grain	Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals Related Products		
Sabine-Neches Waterway	5,569	875	8,431,349	143,344	611,652	9,192,789	26.9
Sabine-Galveston			2,837	943	156,233	160,013	0.4
Galveston Bay	70,609	360,964	12,272,168	861,370	3,699,376	17,264,487	50.4
Galveston-Corpus Christi			2,671,387	1,917	1,393,945	4,067,249	11.9
Corpus Christi-Mexican Border	85,738		2,872,857	57,195	532,022	3,547,792	10.4
Total	161,916	361,839	26,250,578	1,064,769	6,393,228	34,232,330	100.0

Table A-6  
 DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE FROM TEXAS  
 TO INTERSTATE DESTINATIONS BY WATERWAY SEGMENT, 1965

Texas Shipping Area	Commodity (Tons)						Percent Of Total	
	Grain	Logs & Lumber	Coal	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway	1,285		3,417	2,366,714	30,813	432,218	2,834,447	29.9
Sabine-Galveston						56,505	56,505	0.6
Galveston Bay	6,412	7,117		3,303,032	190,532	1,902,895	5,409,988	57.2
Galveston-Corpus Christi		1,240		251,098	746	420,645	673,729	7.1
Corpus Christi-Mexican Border				356,157	5,081	130,686	491,924	5.2
Total	7,697	8,357	3,417	6,277,001	227,172	2,942,949	9,466,593	100.0

Table A-7  
 DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE INTO TEXAS  
 FROM INTERSTATE ORIGINATIONS BY WATERWAY SEGMENT, 1965

Texas Receiving Area	Commodity (Tons)						Total	Percent Of Total
	Grain	Logs & Lumber	Coal	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway	50,665	186	626	6,153,280	169,758	157,523	6,532,038	41.2
Sabine-Galveston						5,548	5,548	*
Galveston Bay	56,937	6,480	335,457	5,344,862	725,181	796,334	7,265,251	45.9
Galveston-Corpus Christi				1,343,387	3,915	130,492	1,477,794	9.3
Corpus Christi-Mexican Border				309,094	79,255	180,428	568,777	3.6
Total	107,602	6,666	336,083	13,150,623	978,109	1,270,325	15,849,408	100.0

\*Less than 0.05%.

Table A-8  
 DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE FROM TEXAS TO INTRASTATE  
 AND INTERSTATE DESTINATIONS BY WATERWAY SEGMENT, 1965

Texas Shipping Area	Commodity (Tons)						Total	Percent Of Total
	Grain	Logs & Lumber	Coal	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway	1,285		3,417	4,254,896	38,544	887,455	5,185,597	20.1
Sabine-Galveston				1,376,247		68,005	1,444,252	5.6
Galveston Bay	6,412	8,572		6,350,122	207,822	4,183,813	10,756,741	41.7
Galveston-Corpus Christi		7,248		1,532,144	746	1,313,146	2,853,284	11.0
Corpus Christi-Mexican Border		600		5,079,206	7,318	478,074	5,565,198	21.6
Total	7,697	16,420	3,417	18,592,615	254,430	6,930,493	25,805,072	100.0

Table A-9

DOMESTIC INLAND MOVEMENT OF WATERBORNE COMMERCE INTO TEXAS FROM INTRASTATE  
AND INTERSTATE ORIGINATIONS BY WATERWAY SEGMENT, 1965

Texas Receiving Area	Commodity (Tons)					Total	Percent Of Total	
	Grain	Logs & Lumber	Coal	Petroleum & Related Products	Iron & Steel			Chemicals & Related Products
Sabine-Neches Waterway	50,665	1,256	626	8,078,676	181,148	441,519	8,753,890	27.2
Sabine-Galveston				1,205		67,129	68,334	0.2
Galveston Bay	56,937	12,818	335,457	12,391,460	738,120	3,457,159	16,991,951	52.8
Galveston-Corpus Christi		655		2,236,307	6,451	971,467	3,214,880	10.0
Corpus Christi-Mexican Border				2,758,889	79,648	326,095	3,164,632	9.8
Total	107,602	14,729	336,083	25,466,537	1,005,367	5,263,369	32,193,687	100.0

## Table A-10

### LIST OF WATERWAY SEGMENTS

#### GULF INTRACOASTAL WATERWAY--SABINE RIVER TO NEW ORLEANS

Gulf Intracoastal Waterway: Mississippi River, La., to Sabine River  
Texas  
Mermentau River, Bayou Nezpique and Bayou Des Cannes, La.  
Calcasieu River and Pass, La.  
Gulf Intracoastal Waterway: Plaquemine to Morgan City Route, La.  
Inland Waterway, Franklin to Mermentau River, La.  
Bayou Vermilion, La.

#### GULF INTRACOASTAL WATERWAY--NEW ORLEANS TO APALACHEE BAY AND CONTIGUOUS RIVERS

Warrior River System  
Gulf Intracoastal Waterway: Mobile Bay, Ala., to New Orleans, La.  
Gulf Intracoastal Waterway: Apalachee Bay, Fla., to Mobile Bay, Ala.  
Escambia and Conecuh Rivers, Fla., and Ala.  
Apalachicola, Chattahoochee & Flint Rivers, Ga., and Fla.  
Lake

#### LOWER MISSISSIPPI RIVER SYSTEM

Mississippi River: New Orleans, La., to Mouth of Passes  
Wolf River, Tenn.  
Mississippi River: Baton Rouge, La., to but not including New Orleans,  
La.  
Mississippi River: Mouth of Ohio River to but not including Baton  
Rouge, La.  
White River, Ark.  
Yazoo River and Mouth, Miss.  
Atchafalaya River, La.  
Ouachita & Black Rivers, Ark., and La.  
Innerharbor Navigation Canal, La.  
Arkansas River, Ark.

#### MIDDLE MISSISSIPPI RIVER SYSTEM

Mississippi River: Mouth of Missouri River to Mouth of Ohio River  
Black River, Wis.

#### UPPER MISSISSIPPI AND MISSOURI RIVER SYSTEMS

Mississippi River: Minneapolis, Minn., to Mouth of Missouri River  
Missouri River  
Minnesota River, Minn.

#### ILLINOIS RIVER AND GREAT LAKES

Illinois River, Ill.  
Lake Michigan  
Port of Chicago, Ill.  
Milwaukee Harbor, Wis.  
Saginaw River, Mich.

#### OHIO RIVER SYSTEM

Ohio River: Engineer District, Louisville  
Ohio River: Engineer District, Huntington  
Ohio River: Engineer District, Pittsburgh  
Kanawha River, W. Va.  
Monongahela River, Pa., and W. Va.  
Big Sandy River, Ky., and W. Va.  
Allegheny River, Pa.  
Little Kanawha River, W. Va.

#### TENNESSEE AND CUMBERLAND RIVER SYSTEMS

Tennessee River, Tenn., Ala., and Ky.  
Cumberland River, Tenn., and Ky.

#### GULF OF MEXICO

Gulf of Mexico

Table A-11

TEXAS INTRASTATE WATERBORNE COMMERCE BETWEEN  
WATERWAYS, IN TONS, 1965

Texas Shipping Segment	Texas Receiving Segment						Percent Of Total
	Sabine Neches Waterway	Sabine - Galveston	Galveston Bay	Galveston - Corpus Christi	Corpus Christi - Mexican Border	Total	
Sabine-Neches Waterway	644,760	45,624	1,153,612	310,352	197,102	2,351,450	14.4
Sabine-Galveston	29,882		1,357,865			1,387,747	8.5
Galveston Bay	869,131	17,162	3,798,301	380,840	281,319	5,346,753	32.7
Galveston-Corpus Christi	117,123		692,460	676,390	694,082	2,180,055	13.3
Corpus Christi-Mexican Border	560,956		2,724,462	369,504	1,423,352	5,078,274	31.1
Total	2,221,852	62,786	9,726,700	1,737,086	2,595,855	16,344,279	
Percent of Total	13.6	0.4	59.5	10.6	15.9		100.0



Table A-12

TEXAS INTRASTATE MOVEMENT OF WATERBORNE  
COMMERCE BY WATERWAY, 1965

Texas Waterway Segment	Commodity (Tons)					Percent Of Total	
	Grain & Soybean	Coal, Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products		
Sabine-Neches Waterway Shipments		1,888,482		7,731	455,237	2,351,450	14.4
Receipts	1,070	1,925,396		11,390	283,996	2,221,852	13.6
Sabine-Galveston Shipments		1,376,247			11,500	1,387,747	8.5
Receipts		1,205			61,581	62,786	0.4
Galveston Bay Shipments	1,455	3,047,090		17,290	2,280,918	5,346,753	32.7
Receipts	6,338	7,046,598		12,939	2,660,825	9,726,700	59.5
Galveston-Corpus Christi Shipments	6,008	1,281,046			893,001	2,180,055	13.3
Receipts	655	892,920		2,536	840,975	1,737,086	10.6
Corpus Christi-Mexican Border Shipments	600	4,723,049		2,237	352,388	5,078,274	31.1
Receipts		2,449,795		393	145,667	2,595,855	15.9
Total Shipments	8,063	12,315,914		27,258	3,993,044	16,344,279	100.0
Receipts	8,063	12,315,914		27,258	3,993,044	16,344,279	100.0

Table A-13

TEXAS INTRASTATE MOVEMENT OF WATERBORNE  
COMMERCE BY WATERWAY, 1970

Texas Waterway Segment	Commodity (Tons)							Percent Of Total
	Grain & Soybeans	Coal, Logs & Lumber	Petroleum & Related Products	Iron & Steel	Chemicals & Related Products	Total		
<b>Sabine-Neches Waterway</b>								
Shipments			1,568,788	4,132	583,994	2,156,914	14.1	
Receipts	875		2,468,845	25,009	368,494	2,863,223	18.7	
<b>Sabine-Galveston</b>								
Shipments			485,053		8,455	493,508	3.2	
Receipts			1,444		131,194	132,638	0.9	
<b>Galveston Bay</b>								
Shipments	27,865	1,435	3,864,383	32,138	2,565,293	6,491,114	42.4	
Receipts		560	4,098,709	10,283	2,925,561	7,035,113	45.9	
<b>Galveston-Corpus Christi</b>								
Shipments			1,430,245		1,136,368	2,566,613	16.8	
Receipts			918,723	1,667	1,162,123	2,082,513	13.6	
<b>Corpus Christi-Mexican Border</b>								
Shipments			2,969,692	914	633,927	3,604,533	23.5	
Receipts	27,865		2,830,440	225	340,665	3,199,195	20.9	
<b>Total</b>								
Shipments	27,865	1,435	10,318,161	37,184	4,928,037	15,312,682	100.0	
Receipts	27,865	1,435	10,318,161	37,184	4,928,037	15,312,682	100.0	

**APPENDIX TABLE B**

Table B-1

COMMODITY	TOTAL		EXPORTS		IMPORTS		NET EXPORTS		CONSUMPTION		INVENTORY	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
1 FARM PRODUCTS	41528	240	0	0	41528	240	0	0	41528	240	0	0
9 FRESH FISH & ETC	402369	582	0	0	402369	582	0	0	402369	582	0	0
17 METALLIC ORES	1241	0	0	0	1241	0	0	0	1241	0	0	0
18 COAL	875	0	0	0	875	0	0	0	875	0	0	0
19 CRUDE PETROLEUM	123340	0	0	0	123340	0	0	0	123340	0	0	0
20 FOOD & KINDRED PR	9154	0	0	0	9154	0	0	0	9154	0	0	0
22 BASIC TEXTILES	3	0	0	0	3	0	0	0	3	0	0	0
24 LUMBER & WOOD PRD	51584	240	0	0	51584	240	0	0	51584	240	0	0
28 CHEMICALS, ETC	173986	191	0	0	173986	191	0	0	173986	191	0	0
30 PETROLEUM & COAL	141	0	0	0	141	0	0	0	141	0	0	0
32 RUBBER & MISC. PL	118	0	0	0	118	0	0	0	118	0	0	0
33 STONE, CLAY, GLASS	13027	142	0	0	13027	142	0	0	13027	142	0	0
35 PRIMARY METAL PRD	94886	52	0	0	94886	52	0	0	94886	52	0	0
38 APPAREL & ETC	12143	77	0	0	12143	77	0	0	12143	77	0	0
39 METAL MACHINERY	1891	0	0	0	1891	0	0	0	1891	0	0	0
40 MACH. EQUIP.	7078	0	0	0	7078	0	0	0	7078	0	0	0
42 INST. & PHOTO. SUP	197	0	0	0	197	0	0	0	197	0	0	0
43 MISC. PRD. OF MANF	310	0	0	0	310	0	0	0	310	0	0	0
41 SPECIAL ITEMS												

Table B-2

COMMODITY	TOTAL		EXPORTS		IMPORTS		NET EXPORTS		CONSUMPTION		INVENTORY	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
1 FARM PRODUCTS	1941329	845	1791	14	1953131	859	0	0	1941329	845	0	0
9 FRESH FISH & ETC	458444	148	0	0	458444	148	0	0	458444	148	0	0
13 CRUDE PETROLEUM	1076271	0	0	0	1076271	0	0	0	1076271	0	0	0
18 COAL	785590	0	0	0	785590	0	0	0	785590	0	0	0
20 FOOD & KINDRED PR	233750	0	15147	7449	233750	0	15147	7449	233750	0	15147	7449
22 BASIC TEXTILES	4	0	0	0	4	0	0	0	4	0	0	0
24 LUMBER & WOOD PRD	13225	0	0	0	13225	0	0	0	13225	0	0	0
28 CHEMICALS, ETC	109298	0	2759	27	109298	0	2759	27	109298	0	2759	27
30 PETROLEUM & COAL	1298222	0	68123	4847	1298222	0	68123	4847	1298222	0	68123	4847
32 RUBBER & MISC. PL	2432	0	15	0	2432	0	15	0	2432	0	15	0
33 STONE, CLAY, GLASS	31276	0	10734	1042	31276	0	10734	1042	31276	0	10734	1042
35 PRIMARY METAL PRD	3081	0	402	0	3081	0	402	0	3081	0	402	0
38 APPAREL & ETC	573	0	582	0	573	0	582	0	573	0	582	0
39 MACH. EQUIP.	3074	0	0	0	3074	0	0	0	3074	0	0	0
42 INST. & PHOTO. SUP	4	0	0	0	4	0	0	0	4	0	0	0
43 MISC. PRD. OF MANF	18074	0	0	0	18074	0	0	0	18074	0	0	0
41 SPECIAL ITEMS												

WATERBORNE COMMERCE OF TEXAS, 1970  
PORT ARTHUR, TEXAS

Table B-3

COMMODITY	FOREIGN						DOMESTIC						
	COASTWISE			INTERNAL			COASTWISE			INTERNAL			
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS
TOTAL	22671406		316346		3217871		3328516		17151313		3433101		33639643
1 FARM PRODUCTS	93939	0.4	0	0.0	93939	5.2	0	0.0	0	0.0	0	0.0	0
9 FRESH FISH & FTC	66952	0.3	0	0.0	0	0.0	0	0.0	0	0.0	66952	2.3	0
11 COAL	16101	0.1	0	0.0	16101	0.9	0	0.0	0	0.0	0	0.0	0
13 CRUDE PETROLEUM	5268206	23.2	8978	2.8	0	0.0	2640213	79.3	123593	1.2	2484794	72.4	10503
14 NONMETALLIC MIN.	82004	0.4	0	0.0	102	0.3	0	0.0	0	0.0	81002	2.4	0
20 FOOD & KINDRED PR	35634	0.2	9452	3.0	26182	1.4	0	0.0	0	0.0	0	0.0	0
22 BASIC TEXTILES	11	0.0	0	0.0	11	0.0	0	0.0	0	0.0	0	0.0	0
24 LUMBER & WOOD PRD	1678	0.0	0	0.0	1678	0.1	0	0.0	0	0.0	0	0.0	0
26 PULP, PAPER, & ETC	19867	0.1	0	0.0	19867	1.1	0	0.0	0	0.0	0	0.0	0
27 PRINTED MATTER	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0
28 CHEMICALS & ETC	509417	2.3	1915	0.6	152682	8.4	20812	0.6	103103	1.0	104864	3.1	224085
29 PETROLEUM & COAL	15478926	68.3	280111	88.5	646196	35.5	651975	19.6	17163783	97.8	618423	18.0	3000170
30 RUBBER & MISC. PL	394	0.0	0	0.0	394	0.0	0	0.0	0	0.0	0	0.0	0
33 PRIMARY METAL PRD	939498	4.1	15490	4.9	850364	46.8	0	0.0	0	0.0	73644	2.1	0
34 FAB. METAL PRD.	1181	0.0	6	0.0	1	0.0	0	0.0	0	0.0	1174	0.3	0
35 MACH., EXCEPT ELE	507	0.0	394	0.1	113	0.0	0	0.0	0	0.0	0	0.0	0
37 TRANS. EQUIP.	15892	0.1	0	0.0	376	0.0	15516	0.5	0	0.0	0	0.0	0
40 WASTE AND SCRAP	38208	0.2	0	0.0	6959	0.4	0	0.0	0	0.0	3342	0.9	28903
41 SPECIAL ITEMS	2990	0.0	0	0.0	2895	0.2	0	0.0	0	0.0	0	0.0	05

Table B-4

COMMODITY	FOREIGN						DOMESTIC						
	COASTWISE			INTERNAL			COASTWISE			INTERNAL			
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS
TOTAL	278318		0		0		93004		195314		93004		195314
13 CRUDE PETROLEUM	224561	80.7	0	0.0	0	0.0	0	0.0	59631	74.0	59631	74.0	154033
14 NONMETALLIC MIN.	1301	0.5	0	0.0	0	0.0	0	0.0	1301	1.4	0	0.0	0
20 FOOD & KINDRED PR	4238	1.5	0	0.0	0	0.0	0	0.0	0	0.0	4238	2.3	0
29 PETROLEUM & COAL	38336	13.8	0	0.0	0	0.0	0	0.0	20208	21.7	18178	9.8	0
35 MACH., EXCEPT ELE	3442	1.2	0	0.0	0	0.0	0	0.0	801	3.9	2641	1.4	0
39 MISC PRD. OF MANF	5690	2.0	0	0.0	0	0.0	0	0.0	1063	1.1	4627	2.5	0
41 SPECIAL ITEMS	750	0.3	0	0.0	0	0.0	0	0.0	0	0.0	750	0.4	0

WATERBORNE COMMERCE OF TEXAS, 1970

HOUSTON SHIP CHANNEL, TEXAS

Table B-5

COMMODITY	DOMESTIC															
	FOREIGN						COASTWISE						INTRAHAL			
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	LOCAL	PCT	
TOTAL	64654263		4827583		1255700		2355493		10994417		13232994		5603374	3474712		
1 FARM PRODUCTS	8205024	12.7	206786	4.3	7904359	64.5	2375	0.1	22209	0.1	34636	0.3	10223	0.4	4434	0.1
8 FOREST PRODUCTS	8462	0.0	7053	0.1	1377	0.0	32	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9 FRESH FISH & ETC	4556352	7.0	81	0.0	0	0.0	360	0.0	7	0.0	4580120	34.4	0	0.0	5784	0.2
10 METALLIC ORES	1064027	1.7	1048646	21.7	17444	0.1	0	0.0	31	0.0	0	0.0	1006	0.0	0	0.0
11 COAL	364318	0.6	0	0.0	7418	0.1	0	0.0	0	0.0	356900	2.7	0	0.0	0	0.0
13 CRUDE PETROLEUM	5892778	9.1	29465	0.6	12558	0.1	95084	4.3	2060229	16.4	3400036	25.9	274453	3.3	3754	0.1
14 NONMETALLIC MIN.	3308155	5.1	209606	4.3	122269	1.0	1016851	43.0	3381	0.0	911988	6.9	46395	1.0	954065	27.5
19 ORDANCE & ACC.	830	0.0	723	0.0	0	0.0	107	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	1081455	1.7	417548	8.6	592072	4.8	21786	0.9	11185	0.1	31017	0.2	7347	0.1	0	0.0
21 TOBACCO PRODUCTS	175	0.0	121	0.0	54	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22 BASIC TEXTILES	62702	0.1	48178	1.0	10409	0.1	2768	0.1	1256	0.0	191	0.0	0	0.0	0	0.0
23 APPAREL, ETC	1438	0.0	927	0.0	438	0.0	72	0.0	1	0.0	0	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	100132	0.2	78813	1.6	11795	0.1	328	0.0	3895	0.0	0	0.0	6301	0.1	0	0.0
25 FURNITURE & FIXT.	6271	0.0	3512	0.1	477	0.0	473	0.0	1203	0.0	506	0.0	0	0.0	0	0.0
26 PULP, PAPER, & ETC	183856	0.3	75422	1.6	65593	0.5	1747	0.1	237	0.0	22639	0.2	17513	0.2	0	0.0
27 PRINTED MATTER	1021	0.0	259	0.0	138	0.0	403	0.0	221	0.0	0	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	8685000	13.4	312997	6.5	1968216	16.1	475469	19.0	1022402	5.1	870934	6.6	2800353	34.0	1194629	34.6
29 PETROLEUM & COAL	26632770	41.2	950318	19.7	858653	7.0	433643	18.3	16563289	82.9	2233913	16.7	4475031	51.8	1211923	34.9
30 RUBBER & MISC. PL	30178	0.0	7516	0.2	11890	0.1	7230	0.3	3280	0.0	262	0.0	0	0.0	0	0.0
31 LEATHER & PRO.	3399	0.0	3100	0.1	50	0.0	249	0.0	0	0.0	0	0.0	0	0.0	0	0.0
32 STONE, CLAY, GLASS	541300	0.8	67590	1.4	10196	0.1	1890	0.1	220836	1.1	80647	0.4	180141	2.2	0	0.0
33 PRIMARY METAL PRO	2483671	3.8	1090649	22.6	351805	2.9	261129	11.0	12249	0.1	618062	4.7	170580	1.4	29258	0.8
34 FAB. METAL PRO.	253496	0.4	100417	2.1	38398	0.3	71398	3.0	24146	0.1	11565	0.1	7572	0.1	0	0.0
35 MACH., EXCEPT ELE	186891	0.3	32181	0.7	130260	1.1	5100	0.2	10771	0.1	5204	0.0	2991	0.0	393	0.0
36 ELEC. MACH.	22080	0.0	13004	0.3	6948	0.1	1469	0.1	659	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	131144	0.2	99505	2.1	22554	0.2	110	0.0	3541	0.0	2610	0.0	674	0.0	150	0.0
38 INST., PHOTO., OP	4487	0.0	317	0.0	1752	0.0	1157	0.0	1261	0.0	0	0.0	0	0.0	0	0.0
39 MISC PRO. OF MANF	9962	0.0	7245	0.2	373	0.0	569	0.0	934	0.0	738	0.0	103	0.0	0	0.0
40 WASTE AND SCRAP	772172	1.2	588	0.0	101571	0.8	2959	0.1	1414	0.0	137123	1.0	467187	5.4	71330	2.1
41 SPECIAL ITEMS	56717	0.1	15016	0.3	6733	0.1	10735	0.5	9021	0.0	12312	0.1	2400	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1970  
GALVESTON CHANNEL, TEXAS

Table B-0

COMMODITY	FOREIGN										DOMESTIC									
	IMPORTS					EXPORTS					COASTWISE					INTERNAL				
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LOCAL	PCT				
TOTAL	3463152		321401		2124022		240792		319331		157112		300494		0					
1 FARM PRODUCTS	1554475	44.9	124297	38.7	1385169	65.2	0	0.0	141	0.0	35973	22.9	8895	3.0	0	0.0				
8 FOREST PRODUCTS	8630	0.2	8624	2.7	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
9 FRESH FISH & ETC	35883	1.0	0	0.0	0	0.0	0	0.0	0	0.0	35883	22.8	0	0.0	0	0.0				
10 METALLIC ORES	29345	0.8	26472	8.2	12	0.0	0	0.0	0	0.0	2593	1.7	268	0.1	0	0.0				
13 CRUDE PETROLEUM	47	0.0	47	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
14 NONMETALLIC MTN.	610849	17.6	4256	1.3	90578	4.3	0	0.0	291392	91.3	2198	1.4	222428	74.0	0	0.0				
19 ORDNANCE & ACC.	6	0.0	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
20 FOOD & KINDRED PR	748178	21.6	66064	20.6	425149	20.0	240758	99.9	15207	5.1	0	0.0	0	0.0	0	0.0				
21 TOBACCO PRODUCTS	7	0.0	7	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
22 BASIC TEXTILES	3434	0.1	2210	0.7	1219	0.1	0	0.0	6	0.0	0	0.0	0	0.0	0	0.0				
23 APPAREL, ETC	59	0.0	56	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
24 LUMBER & WOOD PRO	61706	1.8	59802	18.6	1589	0.1	0	0.0	0	0.0	315	0.2	0	0.0	0	0.0				
25 FURNITURE & FIXT.	252	0.0	186	0.1	16	0.0	17	0.0	33	0.0	0	0.0	0	0.0	0	0.0				
26 PULP, PAPER, & ETC	1542	0.0	1126	0.4	364	0.0	0	0.0	52	0.0	0	0.0	0	0.0	0	0.0				
27 PRINTED MATTER	378	0.0	4	0.0	0	0.0	0	0.0	374	0.1	0	0.0	0	0.0	0	0.0				
28 CHEMICALS & ETC	231340	6.7	14686	4.6	188059	8.9	0	0.0	2562	0.8	24570	15.6	1463	0.5	0	0.0				
29 PETROLEUM & COAL	44983	1.3	0	0.0	242	0.0	0	0.0	1438	0.5	42760	27.2	511	0.2	0	0.0				
30 RUBBER & MISC. PL	1153	0.0	238	0.1	911	0.0	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0				
31 LEATHER & PRO.	89	0.0	88	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
32 STONE, CLAY, GLASS,	8216	0.2	3609	1.1	812	0.0	0	0.0	30	0.0	3765	2.4	0	0.0	0	0.0				
33 PRIMARY METAL PRO	62370	1.8	2261	0.7	11491	0.5	0	0.0	1321	0.4	3675	2.3	43622	14.5	0	0.0				
34 FAB. METAL PRO.	12751	0.4	2054	0.6	3066	0.1	0	0.0	5162	1.6	2468	1.6	0	0.0	0	0.0				
35 MACH., EXCEPT ELF	15965	0.5	495	0.2	9776	0.4	0	0.0	243	0.1	1593	1.0	3858	1.3	0	0.0				
36 ELEC. MACH.	406	0.0	48	0.0	313	0.0	11	0.0	34	0.0	0	0.0	0	0.0	0	0.0				
37 TRANS. EQUIP.	6949	0.2	3996	1.2	2620	0.1	5	0.0	328	0.1	0	0.0	0	0.0	0	0.0				
38 INST., PHOTO., OP	17	0.0	9	0.0	8	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
39 MISC PRO. OF MANF	20275	0.6	279	0.1	0	0.0	0	0.0	0	0.0	549	0.3	10447	6.5	0	0.0				
40 WASTE AND SCRAP	2592	0.1	6	0.0	2586	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0				
41 SPECIAL ITEMS	1255	0.0	475	0.1	34	0.0	0	0.0	4	0.0	742	0.5	0	0.0	0	0.0				

WATERBORNE COMMERCE OF TEXAS, 1970  
TEXAS CITY CHANNEL, TEXAS

Table B-7

COMMODITY	DOMESTIC			CONSTATE			INTERNAL			LOCAL	PCT
	TOTAL	PCT	EXPORTS	TOTAL	PCT	EXPORTS	TOTAL	PCT	EXPORTS		
1 FARM PRODUCTS	17097411		157860	723915	298251	510363	7528124	2700000	31743		
9 FRESH FISH & ETC	4840	0.0	716	0.5	4124	0.5	0	0.0	0	0.0	
10 METALLIC ORES	18305	0.1	0	0.0	0	0.0	0	0.0	0	0.0	
13 CRUDE PETROLEUM	4703814	27.4	31765	27.1	0	0.0	18479	0.2	0	0.0	
14 NONMETALLIC MIN.	3324	0.0	22155	13.1	0	0.0	0	0.0	0	0.0	
20 FOOD & KINDRED PR	5724	0.0	0	0.0	2704	0.3	200428	5.6	16001	1.5	
22 BASIC TEXTILES	666	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
28 CHEMICALS & ETC	5378737	31.2	102463	65.0	566	3.1	3724	0.1	0	0.0	
29 PETROLEUM & COAL	6904362	40.4	0	0.0	48066	6.2	1580444	22.6	180062	1.3	
30 RUBBER & MISC. PL	4948	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
33 PRIMARY METAL PRO	24302	0.2	0	0.0	1533	0.2	0	0.0	0	0.0	
34 FAB. METAL PRO.	332	0.0	373	0.2	0	0.0	0	0.0	0	0.0	
35 MACH. & EQUIP. FLE	306	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
37 TRANS. EQUIP.	2662	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
40 WASTE AND SCRAP	231	0.0	231	0.1	0	0.0	0	0.0	0	0.0	
41 SPECIAL ITEMS											

WATERBORNE COMMERCE OF TEXAS, 1970  
SUPPORT HARBOR, TEXAS

Table B-8

COMMODITY	FOREIGN			CONSTATE			INTERNAL			LOCAL	PCT
	TOTAL	PCT	EXPORTS	TOTAL	PCT	EXPORTS	TOTAL	PCT	EXPORTS		
1 FARM PRODUCTS	5282973		9464	111573	1048671	2236711	752815	3002			
9 FRESH FISH & ETC	35	0.0	34	0.4	0	0.0	0	0.0	0	0.0	
13 CRUDE PETROLEUM	793914	15.0	0	0.0	0	0.0	0	0.0	0	0.0	
14 NONMETALLIC MIN.	98958	1.9	0	0.0	0	0.0	0	0.0	0	0.0	
20 FOOD & KINDRED PR	8084	0.2	3570	42.2	6514	6.4	597	0.0	0	0.0	
22 BASIC TEXTILES	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
24 LUMBER & WOOD PRO	86	0.0	86	1.0	0	0.0	0	0.0	0	0.0	
28 CHEMICALS & ETC	2423028	55.3	0	0.0	102318	9.2	56071	5.3	48068	0.7	
29 PETROLEUM & COAL	629147	11.9	0	0.0	0	0.0	0	0.0	0	0.0	
32 STONE, CLAY, GLASS	6624	0.1	0	0.0	1805	2.2	0	0.0	0	0.0	
33 PRIMARY METAL PRO	42076	0.8	0	0.0	27981	2.4	0	0.0	0	0.0	
34 FAB. METAL PRO.	291	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
35 MACH. & EQUIP. FLE	32	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
36 ELEC. MACH.	634	0.0	632	7.5	0	0.0	0	0.0	0	0.0	
37 TRANS. EQUIP.	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
38 INST. PHOTO. & SUP	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
39 MISC. MACH. & SUP	18518	0.2	0	0.0	0	0.0	0	0.0	0	0.0	
40 WASTE AND SCRAP	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
41 SPECIAL ITEMS	5085	0.1	6140	66.0	0	0.0	0	0.0	0	0.0	



WATERBORNE COMMERCE OF TEXAS, 1970  
MATAGORDA SHIP CHANNEL, TEXAS

Table B-9

COMMODITY	FOREIGN						DOMESTIC						
	IMPORTS			EXPORTS			COASTWISE			INTERNAL			
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	
TOTAL	4479257	2981243	234937	59540	527420	676597	0	0	0	0	0	0	
9 FRESH FISH & FTC	315727	7.0	0	0	0	0	0	0	0	315727	50.0	0	0.0
10 METALLIC DRES	2948111	65.8	2948111	0	0	0	0	0	0	0	0	0	0.0
11 COAL	45485	1.0	0	45485	19.4	0	0	0	0	0	0	0	0.0
13 CRUDE PETROLEUM	438854	10.9	0	0	0	0	0	0	0	438854	72.0	0	0.0
14 NONMETALLIC MIN.	38968	0.9	33132	0	0	0	0	0	0	5836	1.1	0	0.0
28 CHEMICALS & FTC	464826	10.4	0	188925	40.4	7168	12.2	0	0	181519	34.4	97236	12.0
29 PETROLEUM & COAL	150588	3.4	0	0	0	51792	47.8	0	0	24238	4.6	74553	11.0
33 PRIMARY METAL PRO	24633	0.5	0	525	0.2	0	0	0	0	0	0	24179	3.6
34 FAB. METAL PRO.	100	0.0	0	0	0	0	0	0	0	100	0.2	0	0.0
37 TRANS. EQUIP.	2	0.0	0	0	0	0	0	0	0	0	0	0	0.0
40 WASTE AND SCRAP	1963	0.0	0	0	0	0	0	0	0	0	0	1963	0.3

WATERBORNE COMMERCE OF TEXAS, 1970  
CHANNEL TO VICTORIA, TEXAS

Table B-10

COMMODITY	FOREIGN						DOMESTIC						
	IMPORTS			EXPORTS			COASTWISE			INTERNAL			
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	
TOTAL	1775940	0	0	0	0	0	629156	1148786	0	0	0	0	
9 FRESH FISH & FTC	93470	4.7	0	0	0	0	0	81537	13.0	1943	0.2	0	0.0
14 NONMETALLIC MIN.	708774	39.9	0	0	0	0	0	0	0	708774	61.7	0	0.0
28 CHEMICALS & FTC	965994	54.4	0	0	0	0	0	533133	84.7	434541	37.0	0	0.0
29 PETROLEUM & COAL	16035	0.9	0	0	0	0	0	12840	2.0	3184	0.3	0	0.0
33 PRIMARY METAL PRO	1667	0.1	0	0	0	0	0	1667	0.3	0	0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1970

HARBOR ISLAND, TEXAS

Table B-11

COMMODITY	FOREIGN						DOMESTIC					
	TOTAL			COASTWISE			INTERNAL			TOTAL		
	TOTAL	PCT	PCT	EXPORTS	PCT	SHIPMENTS	RECEIPTS	PCT	SHIPMENTS	PCT	SHIPMENTS	LOCAL
9 FRESH FISH & ETC	5324927	0	0.0	592	0	4497512	505023	321300	0	0.0	0	0.0
13 CRUDE PETROLEUM	5850	0.1	0.0	0	0.0	5850	1.7	0	0.0	0	0.0	
28 CHEMICALS & ETC	5272727	99.0	0.0	0	0.0	4457512	99.9	304021	94.5	0	0.0	
29 PETROLEUM & COAL	2495	0.0	0.0	0	0.0	2495	0.5	17460	5.5	0	0.0	
37 TRANS. EQUIP.	43044	0.8	0.0	592	99.9	0	0.0	0	0.0	0	0.0	
39 MISC. PRO. OF MANF.	219	0.0	0.0	0	0.0	0	0.0	219	0.1	0	0.0	

WATERBORNE COMMERCE OF TEXAS, 1970

CORPUS CHRISTI, TEXAS

Table B-12

COMMODITY	FOREIGN						DOMESTIC							
	TOTAL			COASTWISE			INTERNAL			TOTAL				
	TOTAL	PCT	PCT	EXPORTS	PCT	SHIPMENTS	RECEIPTS	PCT	SHIPMENTS	PCT	SHIPMENTS	LOCAL	PCT	
1 FARM PRODUCTS	25229045	3985561	2866964	130098	1271361	2776691	2925817	374057	0	0.0	0	0.0		
9 FRESH FISH & ETC	1938461	7.7	0.0	1938461	67.6	0	0.0	0	0.0	0	0.0	0	0.0	
10 METALLIC SPES	301200	1.2	0.0	0	0.0	0	0.0	248550	12.1	23103	0.8	9450	2.5	
13 CRUDE PETROLEUM	3477374	13.8	3465950	87.0	2334	0.0	0.0	0	0.0	9093	0.3	0	0.0	
14 NONMETALLIC MIN.	4046640	16.0	232921	5.8	0	0.0	0.0	2157235	17.0	949408	42.7	570655	19.5	
20 FOOD & KINDRED PR	24834	0.1	19731	0.5	5103	0.2	0	0.0	0.0	0	0.0	0	0.0	
22 BASIC TEXTILES	171058	0.7	52325	1.3	89602	3.1	0	0.0	22337	0.2	0	0.0	0	
23 APPAREL, ETC	5922	0.0	0	0.0	5922	0.2	0	0.0	0	0.0	0	0.0	0	
24 LUMBER & WOOD PRO	15	0.0	0	0.0	15	0.0	0	0.0	0	0.0	0	0.0	0	
26 PULP, PAPER, & ETC	9234	0.0	7563	0.2	33	0.0	0	0.0	1638	0.1	0	0.0	0	
28 CHEMICALS & ETC	2293197	9.1	77560	1.9	695159	24.2	25480	18.3	458399	13.9	477439	14.3	510950	17.7
29 PETROLEUM & COAL	12652822	50.2	29028	0.7	67399	2.4	113618	81.7	1025905	78.9	591372	24.6	1647826	57.3
30 RUBBER & MISC. PL	40	0.0	0	0.0	40	0.0	0	0.0	0	0.0	0	0.0	0	0.0
32 STONE, CLAY, GLASS,	93168	0.4	0	0.0	104	0.0	0	0.0	0	0.0	3194	0.1	20848	1.1
33 PRIMARY METAL PRO	212467	0.8	109425	2.5	61775	2.2	0	0.0	3937	0.2	46333	1.6	6	0.0
34 FAB. METAL PRO.	547	0.0	0	0.0	547	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35 MACH. EXCEPT ELE	478	0.0	0	0.0	333	0.0	0	0.0	146	0.0	0	0.0	0	0.0
36 ELEC. MACH.	26	0.0	1	0.0	25	0.0	0	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	167	0.0	0	0.0	167	0.0	0	0.0	0	0.0	0	0.0	0	0.0
38 INST. PHOTO. OP	10	0.0	0	0.0	10	0.0	0	0.0	0	0.0	0	0.0	0	0.0
39 MISC. PRO. OF MANF	3	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40 WASTE AND SCRAP	572	0.0	50	0.0	527	2.0	0	0.0	0	0.0	0	0.0	0	0.0
41 SPECIAL ITEMS	10	0.0	5	0.0	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Table B-13

COMMODITY	EXPORTS				IMPORTS				TOTAL			
	QTY	VALUE	PCT	INDEX	QTY	VALUE	PCT	INDEX	QTY	VALUE	PCT	INDEX
TOTAL	590459	1586			1586	590459			590459	1586		
1 FARM PRODUCTS	165	0.0	1.0	100	165	0.0	1.0	100	330	0.0	1.0	100
9 FRESH FISH & FIC	3892	1.0	0.0	100	3892	1.0	0.0	100	7784	2.0	0.0	100
11 CRUDE PETROLEUM	374586	95.4	0.0	100	374586	95.4	0.0	100	749172	95.4	0.0	100
14 NONFETALLIC MIN.	1434	0.4	0.0	100	1434	0.4	0.0	100	2868	0.4	0.0	100
15 METALLIC MIN.	1713	47.6	0.0	100	1713	47.6	0.0	100	3426	47.6	0.0	100
17 FOOD & KINDRED PR	1801	0.7	0.0	100	1801	0.7	0.0	100	3602	0.7	0.0	100
22 BASIC TEXTILES	4816	0.1	0.0	100	4816	0.1	0.0	100	9632	0.1	0.0	100
24 LUMBER & WOOD PRO	36	0.0	0.0	100	36	0.0	0.0	100	72	0.0	0.0	100
28 CHEMICALS & FIC	251769	6.8	0.0	100	251769	6.8	0.0	100	503538	6.8	0.0	100
29 PETROLEUM & COAL	454740	9.1	0.0	100	454740	9.1	0.0	100	909480	9.1	0.0	100
32 STONE-CLAY-GLASS	1	0.0	0.0	100	1	0.0	0.0	100	2	0.0	0.0	100
33 PRIMARY METAL PRO	44184	0.9	0.0	100	44184	0.9	0.0	100	88368	0.9	0.0	100
34 FAB. METAL PRO	27	0.0	0.0	100	27	0.0	0.0	100	54	0.0	0.0	100
35 MACH. EXCEPT ELE	12708	0.3	0.0	100	12708	0.3	0.0	100	25416	0.3	0.0	100
36 ELEC. MACH.	23	0.0	0.0	100	23	0.0	0.0	100	46	0.0	0.0	100
37 TRANS. EQUIP.	298	0.7	0.0	100	298	0.7	0.0	100	596	0.7	0.0	100
40 WASTE AND SCRAP	27040	0.5	0.0	100	27040	0.5	0.0	100	54080	0.5	0.0	100
41 SPECIAL ITEMS	69	0.2	0.0	100	69	0.2	0.0	100	138	0.2	0.0	100

Table B-14

COMMODITY	EXPORTS				IMPORTS				TOTAL			
	QTY	VALUE	PCT	INDEX	QTY	VALUE	PCT	INDEX	QTY	VALUE	PCT	INDEX
TOTAL	4986243	1860984			1860984	4986243			4986243	1860984		
1 FARM PRODUCTS	542025	11.7	0.0	100	542025	11.7	0.0	100	1084050	11.7	0.0	100
9 FRESH FISH & FIC	6985	0.1	0.0	100	6985	0.1	0.0	100	13970	0.1	0.0	100
10 METALLIC DRES	50242	0.9	0.0	100	50242	0.9	0.0	100	100484	0.9	0.0	100
13 CRUDE PETROLEUM	3319927	85.6	0.0	100	3319927	85.6	0.0	100	6639854	85.6	0.0	100
14 NONFETALLIC MIN.	241465	4.8	0.0	100	241465	4.8	0.0	100	482930	4.8	0.0	100
15 METALLIC MIN.	1801	0.7	0.0	100	1801	0.7	0.0	100	3602	0.7	0.0	100
17 FOOD & KINDRED PR	4816	0.1	0.0	100	4816	0.1	0.0	100	9632	0.1	0.0	100
22 BASIC TEXTILES	36	0.0	0.0	100	36	0.0	0.0	100	72	0.0	0.0	100
24 LUMBER & WOOD PRO	251769	6.8	0.0	100	251769	6.8	0.0	100	503538	6.8	0.0	100
28 CHEMICALS & FIC	454740	9.1	0.0	100	454740	9.1	0.0	100	909480	9.1	0.0	100
29 PETROLEUM & COAL	1	0.0	0.0	100	1	0.0	0.0	100	2	0.0	0.0	100
32 STONE-CLAY-GLASS	44184	0.9	0.0	100	44184	0.9	0.0	100	88368	0.9	0.0	100
33 PRIMARY METAL PRO	27	0.0	0.0	100	27	0.0	0.0	100	54	0.0	0.0	100
34 FAB. METAL PRO	12708	0.3	0.0	100	12708	0.3	0.0	100	25416	0.3	0.0	100
35 MACH. EXCEPT ELE	23	0.0	0.0	100	23	0.0	0.0	100	46	0.0	0.0	100
36 ELEC. MACH.	298	0.7	0.0	100	298	0.7	0.0	100	596	0.7	0.0	100
37 TRANS. EQUIP.	27040	0.5	0.0	100	27040	0.5	0.0	100	54080	0.5	0.0	100
40 WASTE AND SCRAP	69	0.2	0.0	100	69	0.2	0.0	100	138	0.2	0.0	100
41 SPECIAL ITEMS												

WATERSIDE COMMENCE OF TEXAS, 1970  
MARINE COUNTY, TEXAS

Table B-15

COMMODITY	EXPORTS		IMPORTS	
	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC	125666	99.7	0	0.0
TOTAL	125666	99.7	0	0.0

WATERSIDE COMMENCE OF TEXAS, 1970  
COSTA MEXICANA COUNTY, TEXAS

Table B-16

COMMODITY	EXPORTS		IMPORTS	
	TOTAL	PCT	TOTAL	PCT
14 NONMETALLIC MIN.	335526	94.4	0	0.0
28 CHEMICALS & ETC	19835	5.6	0	0.0
TOTAL	355361	100.0	0	0.0

WATERSIDE COMMENCE OF TEXAS, 1970  
ZELAR COUNTY, TEXAS

Table B-17

COMMODITY	EXPORTS		IMPORTS	
	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC	36210	1.4	0	0.0
10 METALLIC MIN.	872	0.0	0	0.0
11 COAL	975	0.0	0	0.0
13 CRUDE PETROLEUM	100115	22.2	0	0.0
14 NONMETALLIC MIN.	26880	10.4	0	0.0
33 PREPARED METAL PROD	332557	28.7	0	0.0
34 FERR. METAL PROD.	1610	0.0	0	0.0
35 MACH. & EXCEPT ELE	81	0.0	0	0.0
41 SPECIAL ITEMS	150	0.0	0	0.0
TOTAL	487220	100.0	0	0.0

WATERSIDE COMMENCE OF TEXAS, 1970  
CLEAR COUNTY, TEXAS

Table B-18

COMMODITY	EXPORTS		IMPORTS	
	TOTAL	PCT	TOTAL	PCT
14 NONMETALLIC MIN.	105517	99.0	0	0.0
TOTAL	105517	99.0	0	0.0

Table B-19

COMMODITY	EXPORTS				IMPORTS			
	DOMESTIC		FOREIGN		DOMESTIC		FOREIGN	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC.	437009	0	0	0	0	0	0	0
13 CRUDE PETROLEUM	17293	0	0	0	0	0	0	0
14 NONMETALLIC MIN.	17293	0	0	0	0	0	0	0
TOTAL	454302	0	0	0	0	0	0	0

Table B-20

COMMODITY	EXPORTS				IMPORTS			
	DOMESTIC		FOREIGN		DOMESTIC		FOREIGN	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC.	122859	4.6	0	0	0	0	0	0
13 CRUDE PETROLEUM	92481	36.4	0	0	0	0	0	0
14 CHEMICALS & ETC.	41617	16.5	0	0	0	0	0	0
29 PETROLEUM & COAL	106132	42.0	0	0	0	0	0	0
TOTAL	267089	100.0	0	0	0	0	0	0

Table B-21

COMMODITY	EXPORTS				IMPORTS			
	DOMESTIC		FOREIGN		DOMESTIC		FOREIGN	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC.	181944	34.3	0	0	0	0	0	0
13 CRUDE PETROLEUM	19591	36.7	0	0	0	0	0	0
14 CHEMICALS & ETC.	35112	6.6	0	0	0	0	0	0
29 PETROLEUM & COAL	264366	50.7	0	0	0	0	0	0
30 WASTE AND SCRAP	8997	1.7	0	0	0	0	0	0
TOTAL	530904	100.0	0	0	0	0	0	0

Table B-22

COMMODITY	EXPORTS				IMPORTS			
	DOMESTIC		FOREIGN		DOMESTIC		FOREIGN	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
9 FRESH FISH & ETC.	6813	46.7	0	0	0	0	0	0
17 TRANS. EQUIP.	215	3.1	0	0	0	0	0	0
TOTAL	7028	100.0	0	0	0	0	0	0

WATERBORNE COMMERCE OF TEXAS, 1970  
CORPUS CHRISTI, TEXAS

Table B-23

COMMODITY	FOREIGN						DOMESTIC						
	TOTAL			PCT			COASTWISE			INTERNAL			
	TOTAL	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT
TOTAL	6412	0	0	0	0	0	0	0	0	0	0	0	0
14 NONMETALLIC MIN.	50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	640	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
33 PRIMARY METAL PRO	1960	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35 MACH., EXCEPT ELF	2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	3710	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
41 SPECIAL ITEMS	50	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1970  
KICKPORT, TEXAS

Table B-24

COMMODITY	FOREIGN						DOMESTIC						
	TOTAL			PCT			COASTWISE			INTERNAL			
	TOTAL	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT
TOTAL	698	0	0	0	0	0	0	0	0	0	0	0	0
9 FRESH FISH & FTC	600	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35 MACH., EXCEPT FLE	9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
36 ELEC. MACH.	1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	88	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1970  
TRIPLIN, TEXAS

Table B-25

COMMODITY	FOREIGN						DOMESTIC						
	TOTAL			PCT			COASTWISE			INTERNAL			
	TOTAL	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT
TOTAL	425242	0	0	0	0	0	0	0	0	167453	0	57789	0
13 CRUDE PETROLEUM	57789	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	57789	0.0
14 NONMETALLIC MIN.	45869	0	0.0	0	0.0	0	0.0	0	0.0	45869	12.5	0	0.0
28 CHEMICALS & FTC	34897	0	0.0	0	0.0	0	0.0	0	0.0	34897	9.5	0	0.0
29 PETROLEUM & COAL	286687	0	0.0	0	0.0	0	0.0	0	0.0	286687	78.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1970  
PORT MANSFIELD, TEXAS

Table B-26

COMMODITY	FOREIGN						DOMESTIC					
	IMPORTS			EXPORTS			COASTWISE			INTERNAL		
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT
TOTAL	18004	0	0	0	0	0	0	0	0	0	0	0
9 FRESH FISH & ETC	3306	18.4	0	0	0	0	0	0	0	0	0	0
14 NONMETALLIC MIN	755	4.2	0	0	0	0	0	0	0	0	0	0
20 FOOD & KINDRED PR	217	1.2	0	0	0	0	0	0	0	0	0	0
29 PETROLEUM & COAL	4976	27.6	0	0	0	0	0	0	0	0	0	0
32 STONE, CLAY, GLASS	380	2.1	0	0	0	0	0	0	0	0	0	0
33 PRIMARY METAL PRO	225	1.2	0	0	0	0	0	0	0	0	0	0
34 FAB. METAL PRO.	13	0.1	0	0	0	0	0	0	0	0	0	0
35 MACH., EXCEPT ELE	141	0.8	0	0	0	0	0	0	0	0	0	0
37 TRANS. EQUIP.	1366	7.6	0	0	0	0	0	0	0	0	0	0
41 SPECIAL ITEMS	6625	36.8	0	0	0	0	0	0	0	0	0	0

WATERBORNE COMMERCE OF TEXAS, 1970  
CHANNEL TO PALACIOS, TEXAS

Table B-27

COMMODITY	FOREIGN						DOMESTIC					
	IMPORTS			EXPORTS			COASTWISE			INTERNAL		
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT
TOTAL	98284	0	0	0	0	0	0	0	0	0	0	0
9 FRESH FISH & ETC	96453	98.1	0	0	0	0	0	0	0	0	0	0
13 CRUDE PETROLEUM	1775	1.8	0	0	0	0	0	0	0	0	0	0
37 TRANS. EQUIP.	56	0.1	0	0	0	0	0	0	0	0	0	0

WATERBORNE COMMERCE OF TEXAS, 1970  
CHANNEL TO PORT HOLLIVER, TEXAS

Table B-28

COMMODITY	FOREIGN						DOMESTIC					
	IMPORTS			EXPORTS			COASTWISE			INTERNAL		
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT
TOTAL	437	0	0	0	0	0	0	0	0	0	0	0
29 PETROLEUM & COAL	437	99.9	0	0	0	0	0	0	0	0	0	0

Table B-29

WATERBORNE COMMERCE FOR GROUP 1 OF TEXAS, 1970

COMMODITY	DOMESTIC															
	FOREIGN					COASTWISE						INTERNAL				
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LOCAL	PCT
TOTAL	187737561		14544442		25245934		7148111		71104451		38095809		27450656		4157158	
1 FARM PRODUCTS	14387620	7.7	362967	2.5	13792005	54.6	2375	0.0	22901	0.0	162502	0.4	40434	0.1	4436	0.1
8 FOREST PRODUCTS	17149	0.0	15734	0.1	1383	0.0	32	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9 FRESH FISH & ETC	7525349	4.0	393	0.0	0	0.0	360	0.0	7	0.0	7463925	19.6	55439	0.2	15234	0.4
10 METALLIC ORES	7606105	4.1	7536696	51.8	19793	0.1	0	0.0	31	0.0	24887	0.1	24699	0.1	0	0.0
11 COAL	426779	0.2	0	0.0	69004	0.3	0	0.0	0	0.0	357775	0.9	0	0.0	0	0.0
13 CRUDE PETROLEUM	41124605	21.9	2070545	14.2	39993	0.2	2974035	41.7	16705731	23.5	16460128	43.2	2673797	9.7	195376	4.7
14 NONMETALLIC MIN.	7925956	4.2	283854	2.0	865073	3.4	1016851	14.2	1687649	2.4	1677045	4.4	1411569	5.1	983915	23.7
19 DRDANCE & ACC.	836	0.0	729	0.0	0	0.0	107	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	2329621	1.2	566159	3.9	1385539	5.5	262544	3.7	61448	0.1	33615	0.1	20316	0.1	0	0.0
21 TOBACCO PRODUCTS	182	0.0	128	0.0	54	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22 BASIC TEXTILES	77231	0.0	50398	0.3	22612	0.1	2768	0.0	1262	0.0	191	0.0	0	0.0	0	0.0
23 APPAREL, ETC	1524	0.0	1009	0.0	442	0.0	72	0.0	1	0.0	0	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	165501	0.1	138709	1.0	16653	0.1	328	0.0	3895	0.0	315	0.0	5601	0.0	0	0.0
25 FURNITURE & FIXT.	6527	0.0	3698	0.0	497	0.0	490	0.0	1236	0.0	606	0.0	0	0.0	0	0.0
26 PULP, PAPER, & ETC	295459	0.2	86870	0.6	164058	0.6	1747	0.0	989	0.0	24277	0.1	17518	0.1	0	0.0
27 PRINTED MATTER	1400	0.0	263	0.0	139	0.0	403	0.0	595	0.0	0	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	23924326	12.7	581406	4.0	5136578	20.3	857570	12.0	3639055	5.1	4722927	12.4	7662933	27.9	1325857	31.9
29 PETROLEUM & COAL	75214865	40.1	1259457	8.7	1798334	7.1	1631917	22.8	48663998	68.4	6009719	15.8	14326241	52.2	1525219	36.8
30 RUBBER & MISC. PL	34226	0.0	7769	0.1	15681	0.1	7230	0.1	3284	0.0	262	0.0	0	0.0	0	0.0
31 LEATHER & PRO.	3503	0.0	3203	0.0	50	0.0	250	0.0	0	0.0	0	0.0	0	0.0	0	0.0
32 STONE, CLAY, GLASS,	698213	0.4	71723	0.5	12798	0.1	1890	0.0	220866	0.3	88414	0.2	302522	1.1	0	0.0
33 PRIMARY METAL PRO	4068172	2.2	1219321	8.4	1431350	5.7	261129	3.7	13609	0.0	802595	2.1	311910	1.1	28258	0.7
34 FAB. METAL PRO.	312123	0.2	102893	0.7	45031	0.2	83382	1.2	47684	0.1	20007	0.1	13126	0.0	0	0.0
35 MACH., EXCEPT ELE	224337	0.1	34325	0.2	143232	0.6	5100	0.1	11014	0.0	19553	0.1	10730	0.0	383	0.0
36 ELEC. MACH.	23788	0.0	14253	0.1	7362	0.0	1480	0.0	693	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	167466	0.1	103501	0.7	34141	0.1	15631	0.2	5869	0.0	7500	0.0	674	0.0	150	0.0
38 INST., PHOTO., OP	4534	0.0	327	0.0	1789	0.0	1157	0.0	1261	0.0	0	0.0	0	0.0	0	0.0
39 MISC PRO. OF MANF	48870	0.0	7530	0.1	376	0.0	569	0.0	934	0.0	2592	0.0	36869	0.1	0	0.0
40 WASTE AND SCRAP	1025361	0.5	644	0.0	215009	0.9	2959	0.0	1614	0.0	203208	0.5	530797	1.9	71390	1.7
41 SPECIAL ITEMS	85913	0.0	19938	0.1	26958	0.1	10735	0.2	9025	0.0	13766	0.0	5491	0.0	0	0.0



WATERBORNE COMMERCE FOR GROUP 2 OF TEXAS, 1970

Table B-30

COMMODITY	FOREIGN						DOMESTIC					
	IMPORTS			EXPORTS			RECEIPTS			SHIPMENTS		
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT	TOTAL	PCT	PCT
9 FRESH FISH & ETC	950597	17.5	0	0	0	0	843025	24.7	0	0	0	0
10 METALLIC ORES	3772	0.1	0	0	0	0	0	0	1772	0.2	0	0
11 COAL	875	0.0	0	0	0	0	0	0	875	0.0	0	0
13 CRUDE PETROLEUM	1133651	20.9	0	0	0	0	952936	27.0	0	0	0	0
14 NONMETALLIC MIN.	952918	17.5	0	0	0	0	220012	6.4	0	0	0	0
20 FOOD & KINDRED PR	217	0.0	0	0	0	0	0	0	0	0	0	0
24 LUMBER & WOOD PRQ	640	0.0	0	0	0	0	0	0	0	0	0	0
28 CHEMICALS & ETC	506581	9.3	0	0	0	0	147237	4.3	0	0	0	0
29 PETROLEUM & COAL	1622772	29.9	0	0	0	0	1023580	30.0	0	0	0	0
32 STONE, CLAY, GLASS,	380	0.0	0	0	0	0	0	0	0	0	0	0
33 PRIMARY METAL PRO	238692	4.4	0	0	0	0	227652	6.5	0	0	0	0
34 FAB. METAL PRO.	3623	0.1	0	0	0	0	755	0.0	0	0	0	0
35 MACH., EXCEPT ELE	233	0.0	0	0	0	0	29	0.0	0	0	0	0
36 ELEC. MACH.	1	0.0	0	0	0	0	0	0.0	0	0	0	0
37 TRANS. EQUIP.	5435	0.1	0	0	0	0	0	0.0	0	0	0	0
40 WASTE AND SCRAP	8997	0.2	0	0	0	0	0	0.0	0	0	0	0
41 SPECIAL ITEMS	6825	0.1	0	0	0	0	100	0.0	0	0	0	0
TOTAL	5436209		0	0	0	0	3411134		1894712		0	0

WATERBORNE COMMERCE OF THE UNITED STATES, 1970

Table B-31

COMMODITY	TOTAL				FOREIGN				DOMESTIC				LOCAL	PCT	INTRA.	PCT
	1531696507	339339772	241629361	238440385	157058867	472123417	81474405	1639900								
1 FARM PRODUCTS	90399241	5.9	5167980	1.5	56729752	23.5	1600934	0.7	2315335	1.5	24730463	5.1	352664	0.4	2113	0.1
8 FOREST PRODUCTS	1077542	0.1	854907	0.3	49471	0.0	5125	0.0	2979	0.0	165460	0.0	0	0.0	0	0.0
9 FRESH FISH & ETC	22962548	1.5	505138	0.1	21148	0.0	40852	0.0	259	0.0	20701176	4.4	1693975	2.1	0	0.0
10 METALLIC ORES	154019573	10.1	69298903	20.4	7047628	2.9	18871	0.0	72214706	46.0	48846637	1.0	554828	0.7	0	0.0
11 COAL	225417211	14.7	482	0.0	71275818	29.5	5849056	2.5	31071395	19.8	10099105	23.3	7121355	9.7	0	0.0
13 CRUDE PETROLEUM	210480417	13.7	93567571	27.6	611913	0.3	61918593	26.0	0	0.0	52602590	11.1	1775741	2.2	0	0.0
14 NONMETALLIC MIN.	166561487	10.9	16133203	4.8	17873926	7.4	14714876	6.2	3420191	21.8	73034009	15.5	10599840	13.0	5442	0.3
19 ORDANCE & ACC.	16654	0.0	8025	0.0	3206	0.0	4245	0.0	744	0.0	434	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	34986137	2.3	11673768	3.4	12316073	5.1	4456046	1.9	727054	0.5	5317374	1.1	400427	0.5	94995	5.8
21 TOBACCO PRODUCTS	93693	0.0	7503	0.0	63299	0.0	22739	0.0	152	0.0	0	0.0	0	0.0	0	0.0
22 BASIC TEXTILES	1425165	0.1	1047212	0.3	281277	0.1	73065	0.0	919	0.0	18173	0.0	0	0.0	4519	0.3
23 APPAREL, ETC	310090	0.0	227583	0.1	28788	0.0	53671	0.0	48	0.0	0	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	49924035	3.3	5910899	1.7	16695616	6.9	2408813	1.0	584288	0.4	17484402	3.7	6836260	8.4	3757	0.2
25 FURNITURE & FIXT.	300837	0.0	146015	0.0	17942	0.0	123329	0.1	11333	0.0	1058	0.0	0	0.0	3160	0.1
26 PULP, PAPER, & ETC	12765348	0.8	3027551	0.9	5440411	2.3	468746	0.2	1135751	0.7	2679910	0.6	9432	0.0	2547	0.2
27 PRINTED MATTER	158451	0.0	68701	0.0	63808	0.0	24804	0.0	403	0.0	735	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	61979910	4.0	6481147	1.9	15771996	6.5	9428657	3.5	945253	0.6	28153886	6.0	2146930	2.6	52141	3.2
29 PETROLEUM & COAL	394726871	25.8	810144857	29.5	7250277	3.0	303634276	54.8	7503173	4.8	102686109	21.7	4531082	55.6	1196097	73.4
30 RUBBER & MISC. PL	698042	0.0	308638	0.1	110885	0.0	58153	0.0	18229	0.0	1759	0.0	0	0.0	378	0.0
31 LEATHER & PRO.	319654	0.0	274482	0.1	13543	0.0	25397	0.0	6212	0.0	0	0.0	0	0.0	20	0.0
32 STONE, CLAY, GLASS,	16642403	1.1	3459695	1.0	536852	0.2	2434313	1.0	4254099	2.7	5819778	1.2	22890	0.0	74776	4.6
33 PRIMARY METAL PRO	42355129	2.8	15234367	4.5	16330530	6.8	1156217	0.5	1152351	0.7	8122192	1.7	340853	0.4	8619	0.5
34 FAB. METAL PRO.	2359534	0.2	1185425	0.3	373433	0.2	572096	0.2	23834	0.0	109951	0.0	1923	0.0	3872	0.2
35 MACH., EXCEPT ELE	3256012	0.2	982638	0.3	1519103	0.6	289910	0.1	89290	0.1	368599	0.1	5970	0.0	3202	0.2
36 ELEC. MACH.	1260663	0.1	737669	0.2	316394	0.1	99213	0.0	15964	0.0	86105	0.0	2571	0.0	1743	0.1
37 TRANS. EQUIP.	3824579	0.2	1939709	0.6	819879	0.3	473866	0.2	382738	0.2	200108	0.0	971	0.0	4308	0.3
38 INST., PHOTO., OP	126577	0.0	50496	0.0	67211	0.0	8735	0.0	0	0.0	128	0.0	0	0.0	7	0.0
39 MISC PRO. OF MANF	1519359	0.1	360660	0.1	54653	0.0	133879	0.1	167640	0.1	801306	0.2	653	0.0	568	0.0
40 WASTE AND SCRAP	2588906	1.7	288169	0.1	9616830	4.0	139079	0.1	163345	0.1	11779213	2.5	3905260	4.8	1	0.0
41 SPECIAL ITEMS	6039439	0.4	246379	0.1	330699	0.1	2192829	0.9	25578	0.0	2685748	0.6	389571	0.5	16835	10.4

Table B-32

## PERCENT OF TEXAS SHARE OF U. S. MARKET BY COMMODITIES, 1970

COMMODITY	TOTAL	FOREIGN			DOMESTIC			LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL			
TOTAL	12.612	4.286	10.448	32.818	15.007		5.094	
1 FARM PRODUCTS	15.916	7.023	24.312	1.579	0.838		1.258	
8 FOREST PRODUCTS	1.591	1.840	2.796	0.624	0.000		0.000	
9 FRESH FISH & ETC	36.956	0.078	0.000	0.898	40.400		0.899	
10 METALLIC ORES	4.941	10.876	0.281	0.164	1.092		0.000	
11 COAL	0.190	0.000	0.097	0.000	0.326		0.000	
13 CRUDE PETROLEUM	20.077	2.213	6.536	31.791	38.526		10.978	
14 NONMETALLIC MIN.	5.331	1.759	4.840	18.379	5.533		9.282	
19 ORDANCE & ACC.	5.020	9.084	0.000	2.521	0.000		0.000	
20 FOOD & KINDRED PR	6.659	4.850	11.250	7.271	1.014		0.000	
21 TOBACCO PRODUCTS	0.194	1.706	0.085	0.000	0.000		0.000	
22 BASIC TEXTILES	5.419	4.813	8.039	5.516	1.051		0.000	
23 APPAREL, ETC	0.491	0.443	1.535	0.136	0.000		0.000	
24 LUMBER & WOOD PRO	0.333	2.347	0.100	0.175	0.034		0.000	
25 FURNITURE & FIXT.	2.170	2.533	2.770	1.400	57.278		0.000	
26 PULP,PAPER, & ETC	2.315	2.869	3.016	0.582	1.560		0.000	
27 PRINTED MATTER	0.884	0.383	0.218	4.024	0.000		0.000	
28 CHEMICALS & ETC	39.417	8.971	32.568	53.349	45.793		61.759	
29 PETROLEUM & COAL	19.466	1.258	24.804	38.501	21.379		3.366	
30 RUBBER & MISC. PL	6.872	2.517	14.142	18.080	14.895		0.000	
31 LEATHER & PRO.	1.096	1.167	0.369	0.984	0.000		0.000	
32 STONE,CLAY,GLASS,	4.198	2.073	2.384	9.151	6.717		0.000	
33 PRIMARY METAL PRO	10.168	8.004	8.765	23.558	16.634		8.290	
34 FAB. METAL PRO.	13.382	8.680	12.059	22.910	18.468		0.000	
35 MACH., EXCEPT ELE	6.897	3.493	9.435	5.578	8.238		7.268	
36 ELEC. MACH.	1.887	1.932	2.327	2.190	0.000		0.000	
37 TRANS. EQUIP.	4.521	5.336	4.164	4.537	4.085		15.448	
38 INST., PHOTO., OP	3.582	0.648	2.662	27.682	0.000		0.000	
39 MISC PRO. OF MANF	3.216	2.088	0.698	1.123	4.925		0.000	
40 WASTE AND SCRAP	3.995	0.223	2.236	3.144	6.308		1.927	
41 SPECIAL ITEMS	1.536	8.092	8.152	0.901	0.723		0.000	

**APPENDIX TABLE C**

WATERBORNE COMMERCE OF TEXAS, 1960  
ORANGE, TEXAS

Table C-1

COMMODITY	FOREIGN				DOMESTIC				TOTAL	PCT	
	TOTAL	PCT	IMPORTS	EXPORTS	TOTAL	PCT	RECEIPTS	SHIPMENTS			
1 FARM PRODUCTS	1144176	0	125111	49739	7947	0	0	0	49739	0	0
9 FRESH FISH, ETC	19739	0.7	0	0	0	0	0	0	0	0	0
10 METALLIC ORES	202411	22.9	0	0	0	0	0	0	0	0	0
11 COAL	1283	0.1	0	0	0	0	0	0	0	0	0
13 CRUDE PETROLEUM	131966	11.5	0	0	0	0	0	0	0	0	0
14 FOOD & KINDRED PR	16269	1.3	0	0	14629	11.6	0	0	14629	0.0	0
24 LUMBER & WOOD PRD	3899	0.3	0	0	3939	3.1	0	0	3939	0.0	0
26 PULP, PAPER, & ETC	51392	4.6	0	0	6445	5.5	0	0	6445	0.0	0
28 CHEMICALS & ETC	51392	4.6	0	0	6445	5.5	0	0	6445	0.0	0
29 PETROLEUM & CRAL	51392	4.6	0	0	6445	5.5	0	0	6445	0.0	0
30 RUBBER & MISC. PL	17	0.0	0	0	17	0.0	0	0	17	0.0	0
32 STONE, CLAY, GLASS,	44	0.0	0	0	44	0.0	0	0	44	0.0	0
33 PRIMARY METAL PRD	102015	8.9	0	0	342	0.2	0	0	342	0.0	0
34 FAB. METAL PRD.	4065	0.4	0	0	180	1.2	0	0	180	0.0	0
35 MACH., EXCEPT ELE	189	0.0	0	0	1	0.0	0	0	1	0.0	0
36 FLEC. MACH.	1	0.0	0	0	1	0.0	0	0	1	0.0	0
37 TRANS. EQUIP.	406	0.0	0	0	1	0.0	0	0	1	0.0	0
39 MISC. PRD. OR MANF	1377	0.1	0	0	0	0.0	0	0	0	0.0	0

Table C-2

COMMODITY	FOREIGN				DOMESTIC				TOTAL	PCT	
	TOTAL	PCT	IMPORTS	EXPORTS	TOTAL	PCT	RECEIPTS	SHIPMENTS			
1 FARM PRODUCTS	31568743	0	42692	3058466	1327000	1572642	595444	336000	2746172	0	0
9 FRESH FISH & ETC	1620715	5.1	400	1516988	19.8	0	0	0	49734	0.7	0
10 METALLIC ORES	2488	0.0	2889	0	0	0	0	0	50874	7.3	0
13 CRUDE PETROLEUM	1142247	36.2	0	54924	1.4	1063513	76.7	4106501	551756	80.3	0
14 NONMETALLIC MIN.	3465352	11.0	248	1503354	9.0	0	0	0	37059	0.5	0
20 FOOD & KINDRED PR	100085	0.3	8747	20.5	2.3	0	0	0	731	0.0	0
22 BASIC TEXTILES	56	0.0	10	0	0	0	0	0	0	0.0	0
24 LUMBER & WOOD PRD	10161	0.0	1	10161	0.3	0	0	0	1669	0.0	0
25 FURNITURE & FIXT.	1	0.0	1	0	0	0	0	0	0	0.0	0
26 PULP, PAPER, & ETC	4648	0.0	2914	6.8	0.0	0	0	0	1669	0.0	0
28 CHEMICALS & ETC	368661	11.7	15404	36.1	8.1	292366	20.6	1042064	44642	7.0	0
29 PETROLEUM & CRAL	1318950	41.8	6945	16.3	3.72	0	0	0	54333	17.8	0
30 RUBBER & MISC. PL	3718	0.0	1358	3.7	0.0	0	0	0	26828	0.5	0
32 STONE, CLAY, GLASS,	7880	0.0	1910	4.5	0.0	0	0	0	441	0.0	0
33 PRIMARY METAL PRD	162165	5.2	1761	4.1	0.0	0	0	0	5517	0.1	0
34 FAB. METAL PRD.	162165	5.2	1761	4.1	0.0	0	0	0	32690	0.5	0
35 MACH., EXCEPT ELE	1010	0.0	10	0	0	0	0	0	741	0.0	0
36 FLEC. MACH.	67	0.0	0	0	0	0	0	0	0	0.0	0
37 TRANS. EQUIP.	282	0.0	72	0	0	0	0	0	0	0.0	0
39 MISC. PRD. OR MANF	1378	0.0	73	0.2	0.0	0	0	0	601	0.0	0
40 WASTE AND SCRAP	5164	0.2	0	0	0	0	0	0	4507	0.1	0
41 SPECIAL ITEMS	4529	0.0	0	0	0	0	0	0	124	0.0	0

WATERBORNE COMMERCE OF TEXAS, 1965  
PORT ARTHUR, TEXAS

Table C-3

COMMODITY	FOREIGN				DOMESTIC				TOTAL			
	IMPORTS		EXPORTS		IMPORTS		EXPORTS		IMPORTS		EXPORTS	
	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	
TOTAL	156820	2732140	5384957	13256957	2002571	1742961	41335					
1 FARM PRODUCTS	0	0	0	0	0	0	0	0	0	0	0	
9 FRESH FISH & ETC	15	0	0	0	0	0	0	0	0	0	0	
13 CRUDE PETROLEUM	24959	16.1	0	0	4455619	92.3	22429	0.2	1145908	55.0	0	
14 NONMETALLIC MIN.	5016	0.0	0	0	3121	0.0	1895	0.0	0	0	0	
20 FOOD & KINDRED PR	1874	1.2	707	0.0	0	0.0	0	0.0	0	0	0	
22 BASIC TEXTILES	134	0.0	134	0.0	0	0.0	0	0.0	0	0	0	
24 LUMBER & KINDRED PR	292	0.0	4	0.0	0	0.0	0	0.0	248	0.0	0	
26 PULP, PAPER, & ETC	2	0.0	0	0.0	0	0.0	0	0.0	0	0	0	
28 CHEMICALS & ETC	490552	1.9	0	0.0	174700	6.4	0	0.0	34375	1.7	143057	
29 PETROLEUM & COAL	1680539	66.1	12722	0.2	453006	16.6	926164	4.4	700722	34.1	143569	
30 RUBBER & MISC. PL	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0	
33 PRIMARY METAL PRD	731796	2.9	0	0.0	663902	24.3	0	0.0	15794	0.0	0	
34 FAB. METAL PRD.	1735	0.0	1	0.0	42	0.0	0	0.0	1611	0.1	0	
35 MACH. EXCEPT ELE	121	0.0	0	0.0	0	0.0	0	0.0	63	0.0	0	
37 TRANS. EQUIP.	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	
39 MISC PRD. OF MANF	2484	0.0	689	0.0	0	0.0	1327	0.0	580	0.0	363	
41 SPECIAL ITEMS	144240	0.6	0	0.0	0	0.0	0	0.0	9300	0.4	136040	

Table C-4

WATERBORNE COMMERCE OF TEXAS, 1965  
SARINE PASS HARBOR, TEXAS

COMMODITY	FOREIGN				DOMESTIC				TOTAL			
	IMPORTS		EXPORTS		IMPORTS		EXPORTS		IMPORTS		EXPORTS	
	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	
TOTAL	234655	0	0	0	36032	107521	0	0	0	0	0	
1 FARM PRODUCTS	1223	0.5	0	0.0	0	0.0	0	0.0	1223	0.6	0	
9 FRESH FISH & ETC	1070	0.5	0	0.0	0	0.0	0	0.0	1070	0.0	0	
13 CRUDE PETROLEUM	60618	25.9	0	0.0	0	0.0	0	0.0	9714	73.6	0	
14 NONMETALLIC MIN.	20	0.0	0	0.0	0	0.0	0	0.0	21700	58.3	10914	
20 FOOD & KINDRED PR	1200	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	
26 CHEMICALS & ETC	3799	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	
29 PETROLEUM & COAL	4454	1.9	0	0.0	0	0.0	0	0.0	1500	4.1	2954	
32 STUNL. CLAY, GLASS,	1922	0.8	0	0.0	0	0.0	0	0.0	1767	3.4	663	
33 PRIMARY METAL PRD	1050	0.4	0	0.0	0	0.0	0	0.0	175	0.5	0	
37 TRANS. EQUIP.	1597	0.7	0	0.0	0	0.0	0	0.0	512	1.4	1085	
39 MISC PRD. OF MANF	13409	5.7	0	0.0	0	0.0	0	0.0	1005	5.4	11414	
41 SPECIAL ITEMS	136395	57.7	0	0.0	0	0.0	0	0.0	36032	15.3	143355	

WATERBORNE COMMERCE OF TEXAS, 1965  
HOUSTON SHIP CHANNEL, TEXAS

Table C-5

COMMODITY	DOMESTIC																			
	FOREIGN					COASTWISE					INTERNAL									
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LITRAL	PCT
TOTAL	59831766		4107583		9711422		1853858		20152233		7708044		7640912		8540614					
1 FARM PRODUCTS	5981304	10.0	179847	4.4	5760915	59.3	279	0.0	24168	0.1	9703	0.1	6412	0.1						
8 FOREST PRODUCTS	24361	0.0	15772	0.4	1407	0.0			41	0.0	4318	0.1	2089	0.0						
9 FRESH FISH & ETC	7276484	12.2	985	0.0	10	0.0	550	0.0	10	0.0	250860	3.2	1844582	20.5						
10 METALLIC ORES	978272	1.6	959378	23.4	5552	0.1			138	0.0	1992	0.1	5212	0.1						
11 COAL	361455	0.6	0	0.0	25998	0.3			0	0.0	335457	4.3								
13 CRUDE PETROLEUM	4663599	7.8	22	0.0	432810	23.3			633354	3.3	3283708	42.1	258387	2.4						
14 NONMETALLIC MIN.	2771755	4.6	207593	5.1	68722	0.7			1403	0.0	225692	4.0	31894	1.1						
19 ORNAMENTAL & ACC.	1248	0.0	55	0.0	0	0.0			20	0.0	0	0.0	0	0.0						
20 FOOD & KINDRED PR	1134888	1.9	255162	6.2	785549	8.1			30012	0.1	6158	0.1	8050	0.1						
21 TOBACCO PRODUCTS	74	0.0	32	0.0	30	0.0			0	0.0	0	0.0	0	0.0						
22 BASIC TEXTILES	98492	0.2	60126	1.5	32225	0.3			3450	0.0	0	0.0	0	0.0						
23 APPAREL & ETC	1368	0.0	444	0.0	126	0.0			194	0.0	0	0.0	0	0.0						
24 LUMBER & WOOD PRO	96996	0.2	75134	1.8	5110	0.1			338	0.0	3564	0.0	7365	0.1						
25 FURNITURE & FIXT.	3384	0.0	1221	0.0	252	0.0			892	0.0	0	0.0	0	0.0						
26 PULP, PAPER, & ETC	208518	0.3	100156	2.4	19979	0.2			5171	0.3	10816	0.1	16361	0.4						
27 PRINTED MATTER	2555	0.0	96	0.0	142	0.0			2190	0.1	217	0.0	0	0.0						
28 CHEMICALS & ETC	688182	11.5	59157	1.4	1772074	18.2			168379	0.1	793568	4.0	1114476	16.3						
29 PETROLEUM & COAL	25318780	42.3	991754	24.1	808111	8.3			240692	12.9	18335738	91.0	1244580	16.0						
30 RUBBER & MISC. PL	27517	0.0	3271	0.1	4988	0.1			7023	0.4	3289	0.0	0	0.0						
31 LEATHER & PRO.	2627	0.0	2191	0.1	32	0.0			407	0.0	7	0.0	0	0.0						
32 STONE, CLAY, GLASS,	487885	0.8	26958	0.7	9865	0.1			6301	0.3	57543	0.3	26874	0.3						
33 PRIMARY METAL PRO	2306432	3.9	1006959	24.5	165590	1.7			193393	10.4	7313	0.0	727769	9.3						
34 FAB. METAL PRO.	238375	0.4	101827	2.5	45307	0.5			16349	0.9	2083	0.0	68467	0.9						
35 MACH., EXCEPT FLE	133425	0.2	10107	0.2	82572	0.9			4091	0.2	1705	0.0	31781	0.4						
36 ELEC. MACH.	20818	0.0	2858	0.1	4731	0.0			1777	0.1	11247	0.1	0	0.0						
37 TRANS. EQUIP.	48994	0.1	34312	0.8	8441	0.1			859	0.0	137	0.0	201	0.0						
38 INST. PHOTO., OP	1284	0.0	145	0.0	770	0.0			321	0.0	43	0.0	0	0.0						
39 MISC PRO. OF MANF	235429	0.4	10801	0.3	5495	0.3			211194	1.0	453	0.0	2017	0.0						
40 WASTE AND SCRAP	506633	0.8	1230	0.0	98197	1.0			1870	0.0	15257	0.2	30987	0.4						
41 SPECIAL ITEMS	16632	0.0	0	0.0	3850	0.0			17748	0.6	512	0.0	0	0.0						

WATERBORNE COMMERCE OF TEXAS, 1965

GALVESTON CHANNEL, TEXAS

Table C-6

COMMODITY	FOREIGN						DOMESTIC							
	IMPORTS			EXPORTS			COASTWISE			INTERNAL				
	TOTAL	PCT	PCT	TOTAL	PCT	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT
TOTAL	3716962		163936	3174214	196893	56697	116716		92704					
1 FARM PRODUCTS	2565978	69.0	52182	31.8	2464564	77.6	0	0.0	456	0.8	48776	42.0	0	0.0
8 FOREST PRODUCTS	3339	0.1	863	0.5	2426	0.1	0	0.0	50	0.1	0	0.0	0	0.0
9 FRESH FISH & ETC	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10 METALLIC ORES	1360	0.0	857	0.5	503	0.0	0	0.0	0	0.0	0	0.0	0	0.0
14 NONMETALLIC MIN.	150794	4.1	2022	1.2	131059	4.1	3112	1.6	192	0.3	7833	6.9	6576	71.4
20 FOOD & KINDRED PR	548817	14.8	64756	39.5	273864	9.6	190098	96.5	20099	35.4	0	0.0	0	0.0
22 BASIC TEXTILES	13476	0.4	5727	3.5	7744	0.2	0	0.0	5	0.0	0	0.0	0	0.0
23 APPAREL, FTC	17	0.0	16	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	6174	0.2	2829	1.7	1766	0.1	0	0.0	1579	2.8	0	0.0	0	0.0
25 FURNITURE & FIXT.	45	0.0	25	0.0	11	0.0	0	0.0	9	0.0	0	0.0	0	0.0
26 PULP, PAPER, & ETC	794	0.0	9	0.0	885	0.0	0	0.0	100	0.2	0	0.0	0	0.0
27 PRINTED MATTER	79	0.0	1	0.0	1	0.0	0	0.0	77	0.1	0	0.0	0	0.0
28 CHEMICALS & ETC	289266	7.8	7579	4.6	273256	8.6	0	0.0	7093	12.5	1338	1.2	1	0.0
29 PETROLEUM & COAL	85464	2.3	93	0.1	1545	0.0	3682	1.9	24073	42.5	55957	48.2	114	1.2
30 RUBBER & MISC. PL	231	0.0	53	0.0	26	0.0	0	0.0	152	0.3	0	0.0	0	0.0
31 LEATHER & PRO.	413	0.0	137	0.1	0	0.0	1	0.0	275	0.5	0	0.0	0	0.0
32 STONE, CLAY, GLASS	2038	0.1	539	0.3	412	0.0	0	0.0	77	0.1	1010	0.9	0	0.0
33 PRIMARY METAL PRO	36634	1.0	23667	14.4	10771	0.3	0	0.0	2096	3.7	0	0.0	100	1.1
34 FAB. METAL PRO.	2801	0.1	1732	1.1	586	0.0	0	0.0	51	0.1	432	0.4	0	0.0
35 MACH., EXCEPT ELF	1759	0.0	84	0.1	1672	0.1	0	0.0	3	0.0	0	0.0	0	0.0
36 ELEC. MACH.	135	0.0	57	0.0	78	0.0	0	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	560	0.0	154	0.1	55	0.0	0	0.0	52	0.1	160	0.1	130	1.4
38 INST., PHOTO., OP	9	0.0	6	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0
39 MISC. PRO. OF MANF	3422	0.1	385	0.2	50	0.0	0	0.0	200	0.4	501	0.4	2286	24.8
40 WASTE AND SCRAP	2713	0.1	162	0.1	2494	0.1	0	0.0	57	0.1	0	0.0	0	0.0
41 SPECIAL ITEMS	643	0.0	0	0.0	643	0.0	0	0.0	0	0.0	0	0.0	0	0.0



DEFINITIONS COMBINE OF TEXAS, 1965  
TEXAS CITY CHANNEL, TEXAS

Table C-7

COMMODITY	FOREIGN				COASTWISE				INTEMP			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	IMPORTS	PCT EXPORTS
1 FARM PRODUCTS	1379	0.0	117	0.2	839	0.2	353	0.0	7	0.0	1	0.0
8 FOREST PRODUCTS	1222	0.0	0	0.0	1068	0.2	46	0.0	46	0.0	0	0.0
9 FRESH FISH & FIC	6279	0.0	0	0.0	500	0.0	467	0.0	4100	0.6	0	0.0
10 METALLIC ORES	9779	0.0	9779	100.0	0	0.0	0	0.0	0	0.0	0	0.0
13 CRUDE PETROLEUM	549119	30.2	0	0.0	500	0.1	135671	2.1	572707	6.0	0	0.0
14 NONMETALLIC MIN.	13411	0.7	0	0.0	17279	2.1	2738	0.0	574	0.0	0	0.0
19 ORDNANCE & ALC.	212	0.0	0	0.0	212	0.0	0	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	79686	0.4	0	0.0	19273	3.6	56413	0.6	0	0.0	0	0.0
21 TOBACCO PRODUCTS	468	0.0	0	0.0	468	0.0	0	0.0	0	0.0	0	0.0
22 BASIC TEXTILES	6058	0.3	0	0.0	4018	1.1	42	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRD	32949	0.2	0	0.0	641	0.1	31973	0.3	0	0.0	0	0.0
25 FURNITURE & FIXT.	296	0.0	0	0.0	0	0.0	205	0.0	0	0.0	0	0.0
26 PULP, PAPER & FIC	22738	0.1	0	0.0	4301	0.4	18247	0.2	0	0.0	0	0.0
27 PRINTED MATTER	915	0.0	0	0.0	915	0.0	0	0.0	0	0.0	0	0.0
28 CHEMICALS & FIC	4227308	23.3	32736	0.8	137866	24.1	664701	14.0	1560706	19.6	1236073	42.6
29 PETROLEUM & COAL	7969063	43.4	19304	0.3	5771	0.0	518663	0.6	1517448	12.8	1512658	50.1
30 RUBBER & MISC. PL	4196	0.0	0	0.0	2947	0.0	1249	0.0	0	0.0	0	0.0
31 LEATHER & PRD.	12	0.0	0	0.0	12	0.0	0	0.0	0	0.0	0	0.0
32 STONE, CLAY, GLASS	11032	0.1	0	0.0	1201	0.0	1231	0.0	0	0.0	0	0.0
33 PRIMARY METAL PRD.	123679	0.7	0	0.0	25	0.0	62664	0.0	367	0.0	0	0.0
34 FAB. METAL PRD.	42171	0.2	0	0.0	31960	0.3	9376	0.0	158	0.0	0	0.0
35 MACH., EXCEPT ELE	10406	0.1	0	0.0	569	0.0	3748	0.0	171	0.0	0	0.0
36 ELEC. MACH.	4967	0.0	0	0.0	4778	0.0	189	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	910	0.0	0	0.0	89	0.0	179	0.0	0	0.0	0	0.0
38 INST. PHOTO. & UP	30	0.0	0	0.0	30	0.0	0	0.0	0	0.0	0	0.0
39 MISC. MACH. & WAMP	15674	0.1	298	0.0	12354	2.2	277	0.0	372	0.0	0	0.0
40 MISC. MACH. & WAMP	534	0.0	0	0.0	1460	0.0	396	0.0	0	0.0	0	0.0
41 SPECIAL TIERS	231	0.0	0	0.0	0	0.0	0	0.0	231	0.0	0	0.0
TOTAL	18155441		41789		303687		57280		6478961		701737	
												20311

Table C-8

DEFINITIONS COMBINE OF TEXAS, 1965  
PORT OF HARBOR, TEXAS

COMMODITY	FOREIGN				COASTWISE				INTEMP			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	IMPORTS	PCT EXPORTS
1 FARM PRODUCTS	3907	0.7	3391	0.5	16	0.0	0	0.0	1	0.0	0	0.0
8 FOREST PRODUCTS	56	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9 FRESH FISH & FIC	1017145	22.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10 METALLIC ORES	16907	0.4	14291	27.6	0	0.0	0	0.0	1017145	21.5	0	0.0
13 CRUDE PETROLEUM	5967	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2774	0.2
14 NONMETALLIC MIN.	27218	0.6	0	0.0	0	0.0	0	0.0	5047	0.6	0	0.0
19 ORDNANCE & ALC.	1153	0.0	0	0.0	0	0.0	0	0.0	27218	1.9	0	0.0
20 FOOD & KINDRED PR	31	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
21 TOBACCO PRODUCTS	10	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
22 BASIC TEXTILES	50	0.0	667446	97.8	29167	0.6	562387	24.1	34506	24.1	0	0.0
24 LUMBER & WOOD PRD	2102158	45.8	0	0.0	0	0.0	0	0.0	17455	1.2	0	0.0
29 PETROLEUM & COAL	134806	29.4	0	0.0	0	0.0	0	0.0	1011703	22.6	0	0.0
31 LEATHER & PRD.	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
33 PRIMARY METAL PRD	19256	0.4	562	1.1	18415	2.0	0	0.0	1686	0.1	0	0.0
34 FAB. METAL PRD.	113	0.0	0	0.0	0	0.0	0	0.0	107	0.0	0	0.0
35 MACH., EXCEPT ELE	157	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
36 ELEC. MACH.	822	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
38 INST. PHOTO. & UP	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
39 MISC. MACH. & WAMP	9063	0.2	3782	3.4	0	0.0	0	0.0	0	0.0	0	0.0
41 SPECIAL TIERS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	4599377		51339		674674		33780		1427227		928079	
												2380

WATERBORNE COMMERCE OF TEXAS, 1965  
MATAGORDA SHIP CHANNEL, TEXAS

Table C-9

COMMODITY	DOMESTIC											
	FOREIGN					DOMESTIC						
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LOCAL	PCT
TOTAL	4597167		772158		3991		14544		2248536		1287233	270705
1 FARM PRODUCTS	670	0.0	0	0.0	670	16.9	0	0.0	0	0.0	0	0.0
9 FRESH FISH & ETC	445479	9.7	0	0.0	0	0.0	0	0.0	128516	5.7	53958	4.2
10 METALLIC ORES	2534461	55.1	765086	99.1	0	0.0	0	0.0	1760375	78.7	0	0.0
13 CRUDE PETROLEUM	559693	12.2	0	0.0	0	0.0	0	0.0	5498	0.2	554105	42.1
14 NONMETALLIC MIN.	18115	0.4	7061	0.9	0	0.0	0	0.0	0	0.0	11054	0.8
28 CHEMICALS & ETC	297460	6.5	0	0.0	3318	83.1	0	0.0	259539	11.5	34603	2.7
29 PETROLEUM & COAL	105114	2.3	0	0.0	0	0.0	14544	99.9	93134	3.7	7435	0.6
33 PRIMARY METAL PRO	13270	0.3	0	0.0	0	0.0	0	0.0	2472	0.1	10702	0.8
34 FAB. METAL PRO.	20	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35 MACH., EXCEPT ELE	5	0.0	0	0.0	3	0.1	0	0.0	2	0.0	0	0.0
39 MISC PRO. OF MANF	301	0.0	11	0.0	0	0.0	0	0.0	0	0.0	0	0.0
41 SPECIAL ITEMS	622579	13.5	0	0.0	0	0.0	0	0.0	0	0.0	614879	47.9
												7700

WATERBORNE COMMERCE OF TEXAS, 1965  
CHANNEL TO VICTORIA, TEXAS

Table C-10

COMMODITY	DOMESTIC											
	FOREIGN					DOMESTIC						
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LOCAL	PCT
TOTAL	961106		0		0		0		452121		50995	0
9 FRESH FISH & ETC	53732	5.6	0	0.0	0	0.0	0	0.0	53732	11.9	0	0.0
13 CRUDE PETROLEUM	8144	0.8	0	0.0	0	0.0	0	0.0	8144	1.8	0	0.0
28 CHEMICALS & ETC	843321	87.7	0	0.0	0	0.0	0	0.0	386940	85.6	456481	99.7
29 PETROLEUM & COAL	52441	5.5	0	0.0	0	0.0	0	0.0	2505	0.5	40036	9.8
33 PRIMARY METAL PRO	900	0.1	0	0.0	0	0.0	0	0.0	900	0.2	0	0.0
34 FAB. METAL PRO.	159	0.0	0	0.0	0	0.0	0	0.0	0	0.0	159	0.0
35 MACH., EXCEPT ELE	2409	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2409	0.5

WATERBORNE COMMERCE OF TEXAS, 1963  
HARBOR ISLAND, TEXAS

Table C-11

COMMODITY	DOMESTIC				FOREIGN			
	TOTAL	IMPORTS	EXPORTS	PCT	TOTAL	IMPORTS	EXPORTS	PCT
9 FRESH FISH & ETC	34952	0	0	0.0	34952	0	0	0.0
10 METALLIC ORES	352422	36.4	203357	49.9	0	0	0.0	0.0
11 COAL	3765	0.0	0	0.0	1745	42.5	0	0.0
13 CRUDE PETROLEUM	5931836	61.1	0	0.0	0	0	0.0	0.0
28 CHEMICALS & ETC	5137	0.1	0	0.0	259	4.3	0	0.0
29 PETROLEUM & COAL	160029	1.6	0	0.0	115	1.9	0	0.0
30 RUBBER & MISC. PL	1	0.0	0	0.0	1	0.0	0	0.0
33 PRIMARY METAL PRO	3724	0.0	1863	31.1	0	0	0.0	0.0
34 FAB. METAL PRO.	2	0.0	0	0.0	0	0	0.0	0.0
35 MACH. EXCEPT ELE	7	0.0	0	0.0	0	0	0.0	0.0
36 ELEC. MACH.	11267	0.1	0	0.0	0	0	0.0	0.0
39 MISC. PRO. OF MANF	11	0.0	0	0.0	0	0	0.0	0.0
41 SPECIAL ITEMS	8370	0.1	0	0.0	0	0	0.0	0.0
TOTAL	9711483	703359	5997	0	3324895	676536	3672967	0

Table C-12

COMMODITY	DOMESTIC				FOREIGN			
	TOTAL	IMPORTS	EXPORTS	PCT	TOTAL	IMPORTS	EXPORTS	PCT
1 FARM PRODUCTS	183845	9.1	0	0.0	183845	78.3	0	0.0
9 FRESH FISH & ETC	168183	0.8	0	0.0	0	0	0.0	0.0
10 METALLIC ORES	2953509	14.6	2629923	90.2	0	0	0.0	0.0
11 COAL	160	0.0	44	0.0	116	0.0	0	0.0
13 CRUDE PETROLEUM	4362826	21.5	0	0.0	132370	54.6	2354153	27.4
14 NONMETALLIC MIN.	46573	0.2	55512	1.0	0	0	0.0	0.0
20 FOOD & KINDRED PR	137689	0.7	29437	1.0	78754	3.2	0	0.0
22 BASIC TEXTILES	11176	0.1	0	0.0	11174	0.5	0	0.0
24 LUMBER & WOOD PRO	679	0.0	76	0.0	0	0	0.0	0.0
25 FURNITURE & FIXT.	6	0.0	6	0.0	0	0	0.0	0.0
26 PULP, PAPER, & ETC	8127	0.0	6599	0.2	18	0.0	0	0.0
28 CHEMICALS & ETC	110628	5.5	3119	0.1	306699	13.2	34145	1.5
29 PETROLEUM & COAL	9393575	46.3	146212	5.1	2375	0.1	76876	31.6
30 RUBBER & MISC. PL	53	0.0	2	0.0	51	0.0	0	0.0
32 STONE, CLAY, GLASS	45979	0.2	327	0.0	50	0.0	0	0.0
33 PRIMARY METAL PRO	168640	0.8	49037	1.7	16661	0.7	0	0.0
34 FAB. METAL PRO.	2826	0.0	1064	0.0	1362	0.1	0	0.0
35 MACH. EXCEPT ELE	328	0.0	13	0.0	315	0.0	0	0.0
36 ELEC. MACH.	15	0.0	1	0.0	14	0.0	0	0.0
37 TRANS. EQUIP.	169	0.0	0	0.0	53	0.0	0	0.0
38 INST. PHOTO. & OP	4	0.0	0	0.0	6	0.0	0	0.0
39 MISC. PRO. OF MANF	328	0.0	34	0.0	1	0.0	0	0.0
40 WASTE AND SCRAP	3022	0.2	0	0.0	1566	0.1	0	0.0
41 SPECIAL ITEMS	1127	0.0	67	0.0	0	0	0.0	0.0
TOTAL	20282869	2914454	2319757	243486	10469108	1854308	2663061	347802

Table C-13

COMMODITY	EXPORTS		IMPORTS		NET EXPORTS		NET IMPORTS	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
1 FARM PRODUCTS	141	0.0	161	11.9	20	0.0	20	0.0
9 FRESH FISH & ETC	2171	2.4	196	2.6	1972	40.1	17	0.0
13 CRUDE PETROLEUM	249822	82.6	0	0.0	249822	82.6	0	0.0
14 NONMETALLIC MIN.	34	0.0	36	1.1	2	0.0	21496	0.4
20 FOOD & KINDRED PR	23299	7.7	2048	7.2	21251	44.3	21251	44.3
22 BASIC TEXTILES	40	0.0	59	3.3	19	0.0	19	0.0
23 APPAREL, ETC	14	0.0	14	1.1	0	0.0	0	0.0
24 LUMBER & WOOD PRD	34	0.0	16	2.9	18	0.0	18	0.0
26 PULP, PAPER, & ETC	33	0.0	33	2.7	0	0.0	0	0.0
28 CHEMICALS & ETC	1539	0.5	169	1.5	1370	1.0	1370	1.0
29 PETROLEUM & COAL	1892	6.3	0	0.0	1892	6.3	0	0.0
30 RUBBER & MISC. PL	1	0.0	1	1.1	0	0.0	0	0.0
33 PRIMARY METAL PRD	14	0.0	16	1.3	2	0.0	2	0.0
34 FAB. METAL PRD.	22	0.0	22	3.8	0	0.0	0	0.0
35 MACH., EXCEPT ELE	64	0.2	64	5.2	0	0.0	0	0.0
36 ELEC. MACH.	10	0.0	14	3.5	4	0.0	4	0.0
37 TRANS. EQUIP.	449	0.1	2	0.2	447	1.6	2	0.0
39 MISC. PRD. OF MANF	602	0.2	603	4.2	1	0.0	1	0.0
TOTAL	302287		1223		301064		2060	

Table C-14

COMMODITY	EXPORTS		IMPORTS		NET EXPORTS		NET IMPORTS	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
1 FARM PRODUCTS	157731	7.8	4535	0.2	153196	42.5	153196	42.5
9 FRESH FISH & ETC	5821	0.1	26	0.0	5795	0.0	5795	0.0
10 METALLIC ORES	3961	0.1	0	0.0	3961	1.0	3961	1.0
13 CRUDE PETROLEUM	354112	74.3	1814260	97.5	1460148	40.0	1460148	40.0
14 NONMETALLIC MIN.	99238	2.2	23436	1.3	75802	2.0	75802	2.0
20 FOOD & KINDRED PR	41456	0.9	549	0.0	40907	1.1	40907	1.1
21 TOBACCO PRODUCTS	7	0.0	0	0.0	7	0.0	7	0.0
22 BASIC TEXTILES	10173	0.2	36	0.0	10137	0.3	10137	0.3
23 APPAREL, ETC	135	0.0	135	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRD	3	0.0	0	0.0	3	0.0	3	0.0
26 PULP, PAPER, & ETC	1458	0.3	0	0.0	1458	0.3	1458	0.3
28 CHEMICALS & ETC	172742	3.4	1753	0.1	171000	4.6	171000	4.6
29 PETROLEUM & COAL	204847	4.5	3948	0.2	200899	5.5	200899	5.5
30 RUBBER & MISC. PL	22	0.0	0	0.0	22	0.0	22	0.0
33 PRIMARY METAL PRD	1471	0.0	8	0.0	1463	0.0	1463	0.0
34 FAB. METAL PRD.	36357	0.8	9152	0.4	27205	0.7	27205	0.7
35 MACH., EXCEPT ELE	749	0.0	712	0.2	37	0.0	37	0.0
36 ELEC. MACH.	3920	0.1	3261	0.2	659	0.0	659	0.0
37 TRANS. EQUIP.	2187	0.0	725	0.0	1462	0.4	1462	0.4
38 INST. PHOTO. OP	1	0.0	1	0.0	0	0.0	0	0.0
39 MISC. PRD. OF MANF	40	0.0	40	0.0	0	0.0	0	0.0
40 WASTE AND SCRAP	2881	0.1	1303	0.1	1578	0.4	1578	0.4
41 SPECIAL ITEMS	49493	1.1	0	0.0	49493	1.3	49493	1.3
TOTAL	4574426		1861625		2712801		1811625	

WATERBORNE COMMERCE OF TEXAS, 1965  
ANNUAL CHANNEL, TEXAS

Table C-15

COMMODITY	FUNCTION				CONSTITUTE				INTER-AL			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS
9 FRESH FISH & ETC	64285	99.9	0	0	64285	99.9	0	0	64285	99.9	0	0
TOTAL	64285	99.9	0	0	64285	99.9	0	0	64285	99.9	0	0

WATERBORNE COMMERCE OF TEXAS, 1965  
TRINITY RIVER CHANNEL, TEXAS

Table C-16

COMMODITY	FOREIGN				DOMESTIC				TOTAL			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS
9 FRESH FISH & ETC	40166	13.2	0	0	40166	13.2	0	0	40166	13.2	0	0
14 NONMETALLIC MIN.	258206	84.8	0	0	258206	84.8	0	0	258206	84.8	0	0
29 PETROLEUM & COAL	300	0.1	0	0	300	0.1	0	0	300	0.1	0	0
33 PRIMARY METAL PRO	5881	1.9	0	0	5881	1.9	0	0	5881	1.9	0	0
35 MACH., EXCEPT ELF	50	0.0	0	0	50	0.0	0	0	50	0.0	0	0
37 TRANS. EQUIP.	60	0.0	0	0	60	0.0	0	0	60	0.0	0	0
TOTAL	376653	100.0	0	0	376653	100.0	0	0	376653	100.0	0	0

WATERBORNE COMMERCE OF TEXAS, 1965  
CEDAR RIVER CHANNEL, TEXAS

Table C-17

COMMODITY	FOREIGN				DOMESTIC				TOTAL			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS
9 FRESH FISH & ETC	38022	12.9	0	0	38022	12.9	0	0	38022	12.9	0	0
13 CRUDE PETROLEUM	249433	84.6	0	0	249433	84.6	0	0	249433	84.6	0	0
14 NONMETALLIC MIN.	4482	1.5	0	0	4482	1.5	0	0	4482	1.5	0	0
29 PETROLEUM & COAL	2758	0.9	0	0	2758	0.9	0	0	2758	0.9	0	0
37 TRANS. EQUIP.	40	0.0	0	0	40	0.0	0	0	40	0.0	0	0
39 MISC. PROD. OF MAN.	10	0.0	0	0	10	0.0	0	0	10	0.0	0	0
TOTAL	294785	100.0	0	0	294785	100.0	0	0	294785	100.0	0	0

WATERBORNE COMMERCE OF TEXAS, 1965  
CLEAR CREEK, TEXAS

Table C-18

COMMODITY	FOREIGN				DOMESTIC				TOTAL			
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS
18 NONMETALLIC MIN.	31349	57.6	0	0	31349	57.6	0	0	31349	57.6	0	0
12 SILICEOUS CLAY, GLASS,	2300	4.4	0	0	2300	4.4	0	0	2300	4.4	0	0
TOTAL	33649	100.0	0	0	33649	100.0	0	0	33649	100.0	0	0

WATERBORNE COMMERCE OF TEXAS, 1965  
 JACKSONSON AVENUE, TEXAS

Table C-19

COMMODITY	FOREIGN				DOMESTIC				LOCAL	PCT
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS		
9 FRESH FISH & ETC	478561	85.4	0	0	0	0	478561	41.2	0	0
14 NONFERTILIZERS	49054	8.1	0	0	0	0	48554	4.6	0	0
35 MACH. EXCEPT ELE	400	0.1	0	0	0	0	0	0	400	0.0
39 MISC PROD. OF MANF	600	0.1	0	0	0	0	0	0	600	0.0
41 SPECIAL ITEMS	33214	6.0	0	0	0	0	1250	0.2	31964	27.0
TOTAL	557829		0	0	0	0	528468		12064	

WATERBORNE COMMERCE OF TEXAS, 1965  
 CHICULATTE BAYOU, TEXAS

Table C-20

COMMODITY	FOREIGN				DOMESTIC				LOCAL	PCT
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS		
6 FOREST PRODUCTS	7248	0.4	0	0	0	0	7248	3.8	0	0
9 FRESH FISH & ETC	178151	8.7	0	0	0	0	178151	9.0	0	0
13 CRUDE PETROLEUM	1566047	76.1	0	0	0	0	1538899	85.6	27148	12.4
28 CHEMICALS & ETC	207155	10.1	0	0	0	0	6770	0.3	206485	72.4
29 PETROLEUM & COAL	90895	4.4	0	0	0	0	71567	3.7	19328	7.4
33 PRIMARY METAL PROD	1369	0.1	0	0	0	0	1369	0.1	0	0
39 MISC PROD. OF MANF	1348	0.1	0	0	0	0	1348	0.1	0	0
TOTAL	2052213		0	0	0	0	1747839		250674	

WATERBORNE COMMERCE OF TEXAS, 1965  
 SAN BERNARD RIVER, TEXAS

Table C-21

COMMODITY	FOREIGN				DOMESTIC				LOCAL	PCT
	TOTAL	PCT	IMPORTS	PCT EXPORTS	TOTAL	PCT	RECEIPTS	PCT SHIPMENTS		
9 FRESH FISH & ETC	362302	32.7	0	0	0	0	347207	42.4	0	0
13 CRUDE PETROLEUM	471947	43.9	0	0	0	0	471947	57.8	0	0
28 CHEMICALS & ETC	28438	2.6	0	0	0	0	0	0	28438	3.5
29 PETROLEUM & COAL	179634	17.5	0	0	0	0	0	0	179634	22.4
40 WASTE AND SCRAP	1809	0.2	0	0	0	0	0	0	1809	0.1
TOTAL	1029030		0	0	0	0	819146		209884	

WATERBORNE COMMERCE OF TEXAS, 1965  
CHANNEL TO ARANSAS PASS, TEXAS

Table C-22

COMMODITY	FOREIGN				DOMESTIC			
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
TOTAL	79970		0	0	0	0	0	0
9 FRESH FISH & ETC	53962	67.5	0	0.0	0	0.0	0	0.0
13 CRUDE PETROLEUM	3130	3.9	0	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	41	0.1	0	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	10176	12.7	0	0.0	0	0.0	0	0.0
29 PETROLEUM & COAL	5107	6.4	0	0.0	0	0.0	0	0.0
39 MISC PRO. OF MANF	244	0.3	0	0.0	0	0.0	0	0.0
41 SPECIAL ITEMS	7310	9.1	0	0.0	0	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1965  
DOUBLE BAYOU, TEXAS

Table C-23

COMMODITY	FOREIGN				DOMESTIC			
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
TOTAL	39906		0	0	0	0	0	0
9 FRESH FISH & ETC	14913	37.4	0	0.0	0	0.0	0	0.0
14 NONMETALLIC MIN.	14456	36.2	0	0.0	0	0.0	0	0.0
24 LUMBER & WOOD PRO	1350	3.4	0	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	63	0.2	0	0.0	0	0.0	0	0.0
33 PRIMARY METAL PRO	845	2.1	0	0.0	0	0.0	0	0.0
34 FAB. METAL PRO.	359	0.9	0	0.0	0	0.0	0	0.0
35 MACH. & EXCEPT ELE	1935	4.8	0	0.0	0	0.0	0	0.0
37 TRANS. EQUIP.	3740	9.4	0	0.0	0	0.0	0	0.0
39 MISC PRO. OF MANF	2245	5.6	0	0.0	0	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1965  
PORT MANFIELDO, TEXAS

Table C-24

COMMODITY	FOREIGN				DOMESTIC			
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS	
	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT	TOTAL	PCT
TOTAL	136		0	0	0	0	0	0
9 FRESH FISH & ETC	136	99.9	0	0.0	0	0.0	0	0.0

WATERBORNE COMMERCE OF TEXAS, 1965  
CHANNEL TO PALACIOS, TEXAS

Table C-25

COMMODITY	FOREIGN				DOMESTIC				TOTAL	PCT	LOCAL	PCT
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS					
	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT				
9 FRESH FISH & ETC	0	0.0	0	0.0	0	0.0	0	0.0	317063	99.9	0	0.0
13 CRUDE PETROLEUM	0	0.0	0	0.0	0	0.0	0	0.0	4449	0.0	4449	0.0
TOTAL	0	0.0	0	0.0	0	0.0	0	0.0	317063	99.9	4449	0.0

WATERBORNE COMMERCE OF TEXAS, 1965  
TRIBUTARY RIVER TO COLORADO, TEXAS

Table C-26

COMMODITY	FOREIGN				DOMESTIC				TOTAL	PCT	LOCAL	PCT
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS					
	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT				
9 FRESH FISH & ETC	0	0.0	0	0.0	0	0.0	0	0.0	69	0.0	0	0.0
13 CRUDE PETROLEUM	0	0.0	0	0.0	0	0.0	0	0.0	4058	6.3	0	0.0
20 FOOD & KINDRED PR	0	0.0	0	0.0	0	0.0	0	0.0	181	0.3	0	0.0
28 CHEMICALS & ETC	0	0.0	0	0.0	0	0.0	0	0.0	27609	11.0	0	0.0
29 PETROLEUM & COAL	0	0.0	0	0.0	0	0.0	0	0.0	215307	85.6	0	0.0
32 STONE, CLAY, & GLASS	0	0.0	0	0.0	0	0.0	0	0.0	1200	0.5	0	0.0
35 MACH. EXCEPT ELE	0	0.0	0	0.0	0	0.0	0	0.0	115	0.0	0	0.0
40 WASTE AND SCRAP	0	0.0	0	0.0	0	0.0	0	0.0	7227	2.9	0	0.0
41 SPECIAL ITEMS	0	0.0	0	0.0	0	0.0	0	0.0	34920	56.1	0	0.0
TOTAL	0	0.0	0	0.0	0	0.0	0	0.0	248420	64.8	64589	16.6

WATERBORNE COMMERCE OF TEXAS, 1965  
RASTRIP BAYOU, TEXAS

Table C-27

COMMODITY	FOREIGN				DOMESTIC				TOTAL	PCT	LOCAL	PCT
	IMPORTS		EXPORTS		RECEIPTS		SHIPMENTS					
	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT				
9 FRESH FISH & ETC	0	0.0	0	0.0	0	0.0	0	0.0	43966	99.8	0	0.0
24 LUMBER & WOOD PRO	0	0.0	0	0.0	0	0.0	0	0.0	55	0.1	0	0.0
33 PRIMARY METAL PRO	0	0.0	0	0.0	0	0.0	0	0.0	55	0.1	0	0.0
TOTAL	0	0.0	0	0.0	0	0.0	0	0.0	44076	100.0	0	0.0



Table C-28

WATERPORF COMMERCE FOUR GROUP 1 OF TEXAS, 1965

COMMODITY	FOREIGN						DOMESTIC										
	COASTWISE			INTERNAL			COASTWISE			INTERNAL							
	TOTAL	PCT	PCT	IMPORTS	PCT	EXPORTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	RECEIPTS	PCT	SHIPMENTS	PCT	LOCAL	PCT
185082254	12167248	23340798	9728805	72669493	32788761	25335270	9580774										
1 FARM PRODUCTS	13922760	7.5	270972	2.2	13681475	57.8	1147	0.0	47473	0.1	100513	0.3	11680	0.0	0	0.0	
8 FOREST PRODUCTS	2948	0.0	16635	0.1	3839	0.0	1199	0.0	197	0.0	6008	0.0	2080	0.0	0	0.0	
9 FRESH FISH & ETC	9980240	5.4	1812	0.0	10	0.0	550	0.0	970	0.0	2426597	7.5	1699224	6.7	5851077	61.3	
10 METALLIC ORES	10054761	5.4	6415284	52.7	83494	0.4	505	0.0	245015	0.3	1780748	5.5	1520115	6.0	0	0.0	
11 COAL	366643	0.2	44	0.0	29859	0.1	0	0.0	0	0.0	336083	1.0	657	0.0	0	0.0	
13 CRUDE PETROLEUM	62146772	27.8	1839241	15.1	54924	0.2	6085312	62.5	12257036	16.9	16986723	52.6	4713844	18.6	209672	2.2	
14 NONMETALLIC MIN.	6717870	3.0	286872	2.4	1703224	7.3	845729	8.7	1109483	1.5	712687	2.2	926944	3.7	1132431	11.9	
19 ORODANCE & ACC.	1460	0.0	55	0.0	0	0.0	1385	0.0	20	0.0	0	0.0	0	0.0	0	0.0	
20 FOOD & KINDRED PR	2083817	1.1	363746	3.0	1278769	5.5	251107	2.6	141837	0.2	8528	0.0	31610	0.1	8221	0.1	
21 TOBACCO PRODUCTS	549	0.0	32	0.0	37	0.0	480	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
22 BASIC TEXTILES	139636	0.1	65901	0.5	61531	0.3	8709	0.1	3495	0.0	0	0.0	0	0.0	0	0.0	
23 APPAREL, ETC	1534	0.0	595	0.0	740	0.0	4	0.0	195	0.0	0	0.0	0	0.0	0	0.0	
24 LUMBER & WOOD PRO	150797	0.1	78049	0.6	20920	0.1	979	0.0	47051	0.1	7713	0.0	6085	0.0	0	0.0	
25 FURNITURE & FIKT.	3731	0.0	1251	0.0	265	0.0	1109	0.0	1105	0.0	0	0.0	0	0.0	0	0.0	
26 PULP, PAPER, & ETC	246329	0.1	109678	0.9	22849	0.1	10562	0.1	29265	0.0	37440	0.1	41035	0.2	0	0.0	
27 PRINTED MATTER	3549	0.0	97	0.0	143	0.0	3015	0.0	294	0.0	0	0.0	0	0.0	0	0.0	
28 CHEMICALS & ETC	17910810	9.7	119799	1.0	3686136	15.8	471558	4.1	2578792	3.5	4351322	13.5	6001565	23.7	771638	8.1	
29 PETROLEUM & COAL	74579369	40.3	1297598	10.7	1583039	6.8	1710231	17.6	55823372	76.8	4305532	13.3	8716261	34.4	1143331	12.0	
30 RUBBER & MISC. PL	35757	0.0	3348	0.0	8357	0.0	4970	0.1	4690	0.0	0	0.0	9309	0.0	0	0.0	
31 LEATHER & PRO.	3053	0.0	2318	0.0	33	0.0	420	0.0	282	0.0	0	0.0	0	0.0	0	0.0	
32 STONE, GLASS, & ETC	558251	0.3	29190	0.2	10370	0.0	16102	0.2	51851	0.1	63239	0.2	387409	1.5	0	0.0	
33 PRIMARY METAL PRO	3713214	2.0	1090332	9.0	998276	4.3	276257	2.8	97801	0.1	657692	3.0	287262	1.1	5594	0.1	
34 FAB. METAL PRO.	299706	0.2	107099	0.9	47756	0.2	48308	0.5	12009	0.0	76137	0.2	8397	0.0	0	0.0	
35 MACH., EXCEPT ELF	154100	0.1	13475	0.1	87518	0.4	12830	0.1	2595	0.0	31903	0.1	3283	0.0	2400	0.0	
36 ELEC. MACH.	46009	0.0	2943	0.0	4901	0.0	5555	0.1	386	0.0	19969	0.1	11247	0.0	8	0.0	
37 TRANS. EQUIP.	55461	0.0	35214	0.3	8822	0.0	3431	0.0	319	0.0	1124	0.0	1616	0.0	4035	0.1	
38 INST., PHOTO., OP	1340	0.0	152	0.0	780	0.0	360	0.0	48	0.0	0	0.0	0	0.0	0	0.0	
39 MISC PRO. OF MANF	281568	0.2	14124	0.1	1331	0.0	19634	0.2	212658	0.3	5683	0.0	23597	0.1	4501	0.0	
40 WASTE AND SCRAP	679881	0.3	1392	0.0	152638	0.7	1679	0.0	4031	0.0	50891	0.2	35577	0.1	359673	3.8	
41 SPECIAL ITEMS	983339	0.5	0	0.0	8743	0.0	10788	0.1	1582	0.0	17630	0.1	847274	3.5	57293	0.6	

Table C-29 WATERBORNE COMMERCE FOR GROUP 2 OF TEXAS, 1965

COMMODITY	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	DOMESTIC							
							COASTWISE			INTERNAL				
							RECEIPTS	PCT	SHIPMENTS	RECEIPTS	PCT	SHIPMENTS	RECEIPTS	PCT
TOTAL	5443132	0	0	0	0	3872379	1406665	0	0	0	0	0	0	0
8 FOREST PRODUCTS	7248	0.1	0	0.0	0	0.0	0	0.0	0	0.0	7248	0.5	0	0.0
9 FRESH FISH & ETC	1576476	29.0	0	0.0	0	0.0	0	0.0	0	0.0	1463499	7.8	0	0.0
13 CRUDE PETROLEUM	2299064	42.2	0	0.0	0	0.0	0	0.0	0	0.0	2005786	51.8	290149	20.6
14 NONMETALLIC MIN.	635628	11.7	0	0.0	0	0.0	0	0.0	0	0.0	63552	1.6	557629	39.6
20 FOOD & KINDRED PR	222	0.0	0	0.0	0	0.0	0	0.0	0	0.0	191	0.0	0	0.0
24 LUMBER & WOOD PRO	1405	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
28 CHEMICALS & ETC	273441	5.0	0	0.0	0	0.0	0	0.0	0	0.0	33379	0.9	229323	16.3
29 PETROLEUM & COAL	519424	9.5	0	0.0	0	0.0	0	0.0	0	0.0	287162	7.4	227155	16.1
32 STONE, CLAY, GLASS,	26400	0.5	0	0.0	0	0.0	0	0.0	0	0.0	1200	0.0	25200	1.8
33 PRIMARY METAL PRO	8160	0.1	0	0.0	0	0.0	0	0.0	0	0.0	7260	0.2	0	0.0
34 FAB. METAL PRO.	359	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
35 MACH., EXCEPT ELE	2500	0.0	0	0.0	0	0.0	0	0.0	0	0.0	140	0.0	425	0.0
37 TRANS. EQUIP.	3880	0.1	0	0.0	0	0.0	0	0.0	0	0.0	70	0.0	70	0.0
39 MISC. PRO. OF MANF	4445	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1354	0.0	602	0.0
40 WASTE AND SCRAP	9036	0.2	0	0.0	0	0.0	0	0.0	0	0.0	7227	0.2	1809	0.1
41 SPECIAL ITEMS	75444	1.4	0	0.0	0	0.0	0	0.0	0	0.0	1250	0.0	64894	4.8

WATERBORNE COMMERCE OF THE UNITED STATES, 1965

Table C-30

COMMODITY	FOREIGN						DOMESTIC						PCT			
	TOTAL	PCT	IMPORTS	PCT	EXPORTS	PCT	LAKEWISE	PCT	INTERNAL	PCT	LOCAL	PCT		INTRA.	PCT	
TOTAL	1272896243	269834819	173891990	201508107	153695242	369615461	102865022	1485612								
1 FARM PRODUCTS	82373438	6.5	5102493	1.9	53683031	30.9	1388135	0.7	2707868	1.8	18841911	5.1	644174	0.6	5836	0.4
8 FOREST PRODUCTS	894922	0.1	803468	0.3	70734	0.0	4333	0.0	1912	0.0	9328	0.0	5123	0.0	24	0.0
9 FRESH FISH & ETC	26978892	2.1	335274	0.1	23344	0.0	51370	0.0	1357	0.0	16646389	4.5	9921155	9.6	3	0.0
10 METALLIC DRES	146886138	11.5	69268126	25.7	7980537	4.6	249426	0.1	64375441	41.9	4974849	1.3	37742	0.0	17	0.0
11 COAL	207112236	16.3	1014	0.0	50127208	28.8	10049034	5.0	39913744	26.0	9425093	25.0	14595981	14.2	162	0.0
13 CRUDE PETROLEUM	155551104	12.2	73361908	27.2	106334	0.1	37526537	18.6	71491	0.0	41936264	11.3	2547055	2.5	1515	0.1
14 NONMETALLIC MIN.	144816199	11.4	13078170	4.8	12825304	7.4	13231177	6.6	30395757	19.8	59418341	16.1	15720951	15.3	46499	3.1
19 ORDNANCE & ACC.	24301	0.0	2952	0.0	3310	0.0	17023	0.0	30	0.0	986	0.0	0	0.0	0	0.0
20 FOOD & KINDRED PR	28324023	2.2	8624120	3.2	10003989	5.8	4916328	2.4	707049	0.5	3335578	0.9	646748	0.6	90211	6.1
21 TOBACCO PRODUCTS	72381	0.0	2792	0.0	47679	0.0	21066	0.0	716	0.0	0	0.0	90	0.2	58	0.0
22 BASIC TEXTILES	1562559	0.1	1098137	0.4	290318	0.2	105807	0.1	43794	0.0	23670	0.0	20	0.0	813	0.1
23 APPAREL, ETC	162079	0.0	109301	0.0	24878	0.0	27690	0.0	117	0.0	6	0.0	7	0.0	87	0.0
24 LUMBER & WOOD PRO	38956717	3.1	4930769	1.8	5079342	2.9	3345476	1.7	809093	0.5	17469847	4.7	7304999	7.1	17691	1.2
25 FURNITURE & FIXT.	119381	0.0	64704	0.0	16615	0.0	30936	0.0	6065	0.0	206	0.0	2	0.0	853	0.1
26 PULP, PAPER, & ETC	10247818	8.0	4009570	1.5	2938478	1.7	313166	0.2	1064559	0.7	1915838	0.5	5403	0.0	804	0.1
27 PRINTED MATTER	110458	0.0	31370	0.0	56759	0.0	21236	0.0	950	0.0	0	0.0	0	0.0	123	0.0
28 CHEMICALS & ETC	37050055	2.9	2805207	1.0	9192878	5.3	5775596	2.9	600729	0.4	17109532	4.6	1534683	1.5	31430	2.1
29 PETROLEUM & COAL	317907996	25.0	69356034	25.7	6963410	4.0	117656757	58.4	6941493	4.5	78243101	21.2	37686131	36.6	1061070	71.4
30 RUBBER & MISC. PL	311377	0.0	98603	0.0	119625	0.1	53463	0.0	21987	0.0	17068	0.0	2	0.0	629	0.0
31 LEATHER & PRO.	197756	0.0	151494	0.1	11952	0.0	26851	0.0	7408	0.0	0	0.0	0	0.0	51	0.0
32 STONE, CLAY, GLASS, & ETC	12669264	1.0	1814676	0.7	487758	0.3	2275840	1.1	3322220	2.2	6610514	1.2	111451	0.1	46805	3.2
33 PRIMARY METAL PRO	28037667	2.2	11747992	4.4	5312460	3.1	1558409	0.8	1585372	1.0	7297565	2.0	549832	0.5	6037	0.4
34 FAB. METAL PRO.	2145205	0.2	931865	0.3	436619	0.3	301740	0.1	81981	0.1	386867	0.1	2654	0.0	3479	0.2
35 MACH., EXCEPT ELE	2240132	0.2	349944	0.1	1322224	0.8	153169	0.1	122098	0.1	269382	0.1	11979	0.0	1336	0.1
36 ELEC. MACH.	714741	0.1	242045	0.1	277412	0.2	88448	0.0	40249	0.0	59799	0.0	6488	0.0	300	0.0
37 TRANS. EQUIP.	2629399	0.2	706838	0.3	809807	0.5	363952	0.2	436592	0.3	271935	0.1	31309	0.0	8966	0.6
38 INST., PHOTO., OP	91114	0.0	42189	0.0	44714	0.0	4177	0.0	0	0.0	25	0.0	0	0.0	9	0.0
39 MISC PRO. OF MANF	6917371	0.4	362817	0.1	65687	0.0	1404927	0.7	136516	0.1	836590	0.2	2102747	2.0	8087	0.5
40 WASTE AND SCRAP	15793555	1.2	373134	0.1	5110945	2.9	92061	0.0	318654	0.2	1042221	0.3	8855982	8.6	558	0.0
41 SPECIAL ITEMS	3997965	0.3	28313	0.0	348639	0.2	453977	0.2	0	0.0	2472556	0.7	542321	0.5	152159	10.2

Table C-31 PERCENT OF TEXAS SHARE OF U. S. MARKET BY COMMODITIES, 1965

COMMODITY	TOTAL	FOREIGN			DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	LOCAL	
TOTAL	14.968	4.509	13.423	40.891	17.019	9.285	
1 FARM PRODUCTS	16.902	5.311	25.113	3.539	0.643	0.000	
8 FOREST PRODUCTS	4.156	2.070	5.427	31.987	164.408	0.000	
9 FRESH FISH & ETC	42.836	0.540	0.043	2.959	33.577	58.976	
10 METALLIC ORES	6.845	9.262	1.046	98.675	66.532	0.000	
11 COAL	0.177	4.339	0.060	0.000	0.364	0.000	
13 CRUDE PETROLEUM	28.573	2.507	51.652	48.878	57.221	9.232	
14 NONMETALLIC MIN.	5.078	2.194	13.177	14.781	3.805	7.203	
19 ORDANCE & ACC.	6.008	1.863	0.000	8.254	0.000	0.000	
20 FOOD & KINDRED PR	7.358	4.218	12.783	7.993	1.209	1.271	
21 TOBACCO PRODUCTS	0.758	1.146	0.078	2.281	0.000	0.000	
22 BASIC TEXTILES	8.936	6.001	21.194	11.534	0.000	0.000	
23 APPAREL, ETC	0.946	0.544	2.975	0.719	0.000	0.000	
24 LUMBER & WOOD PRO	0.391	1.583	0.412	1.137	0.079	0.000	
25 FURNITURE & FIXT.	3.125	1.933	1.595	7.160	0.000	0.000	
26 PULP, PAPER, & ETC	2.404	2.735	0.778	12.718	3.861	0.000	
27 PRINTED MATTER	3.213	0.309	0.252	15.567	0.000	0.000	
28 CHEMICALS & ETC	49.080	4.271	40.098	51.632	62.048	50.280	
29 PETROLEUM & COAL	23.623	1.871	22.734	48.899	17.300	3.034	
30 RUBBER & MISC. PL	11.484	3.395	6.986	27.421	55.027	0.000	
31 LEATHER & PRO.	1.544	1.530	0.276	2.614	0.000	0.000	
32 STONE, CLAY, GLASS,	4.615	1.609	2.126	2.986	10.349	0.000	
33 PRIMARY METAL PRO	13.273	9.281	18.791	24.003	17.159	1.017	
34 FAB. METAL PRO.	13.988	11.493	10.938	19.990	21.851	0.000	
35 MACH., EXCEPT ELE	6.991	3.851	6.569	10.071	13.307	20.035	
36 ELEC. MACH.	6.437	1.216	1.767	7.848	52.202	0.123	
37 TRANS. EQUIP.	2.257	4.982	1.089	1.030	1.059	15.762	
38 INST., PHOTO., OP	1.471	0.360	1.744	9.758	0.000	0.000	
39 MISC PRO. OF MANF	5.816	3.893	2.026	16.537	3.734	0.214	
40 WASTE AND SCRAP	3.919	0.373	2.986	10.547	9.164	4.061	
41 SPECIAL ITEMS	26.483	0.000	2.513	2.725	39.354	10.564	

