

5-1-1972

## An Input-output Model of the Southeast Region of Texas

Charles F. Hawkins  
*Lamar University Beaumont, Texas*

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PB 214 109

AN INPUT-OUTPUT MODEL OF THE  
SOUTHEAST REGION OF TEXAS

Texas  
Interindustry  
Project

Charles F. Hawkins  
Lamar University  
Beaumont, Texas

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Springfield VA 22151

May, 1972

The preparation of this report was financed in part through an urban planning grant from the Department of Housing and Urban Development, under the provision of Section 701 of the Housing Act of 1954, as amended.

OFFICE OF THE GOVERNOR  
DIVISION OF PLANNING COORDINATION

PRESTON SMITH  
GOVERNOR OF TEXAS

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BIBLIOGRAPHIC DATA SHEET	1. Report No. 7400-RO9-0572	2.	3. Recipient's Accession No. PB 214 109
4. Title and Subtitle An Input-Output Model of the Southeast Region of Texas		5. Report Date April 1972	6.
7. Author(s) Charles F. Hawkins		8. Performing Organization Rept. No.	
9. Performing Organization Name and Address Lamar University Beaumont, Texas		10. Project/Task/Work Unit No.	
		11. Contract Grant No. HUD Tex P-313	
12. Sponsoring Organization Name and Address Division of Planning Coordination Office of the Governor Austin, Texas 78711		13. Type of Report & Period Covered Final Report	14.
15. Supplementary Notes			
16. Abstracts In today's complex, interdependent economy, business and government policy makers are becoming increasingly aware of the need for comprehensive planning. They realize if resources are to be allocated to their most productive uses, it is necessary to know not only the direct effect of a given decision, but also the various indirect effects. The purpose of this paper is to provide public and private decision makers in Southeast Texas with an efficient planning model by identifying the structural interdependencies that exist in the regional economy. The Input-Output Model which is presented in the paper describes the structural relationships that exist in the regional economy and estimates the direct plus indirect output requirements of one regional sector by another per dollar of output delivered to final consumers by the latter sector. Data included in the model were collected from a representative sample of firms within each regional sector.			
17. Key Words and Document Analysis. 17a. Descriptors Input-Output Models Interindustry Analysis Economic Models Economic Analysis Regional Economics			
17b. Identifiers/Open-Ended Terms			
17c. COSATI Field/Group <b>1</b>			
18. Availability Statement Release to the Public	19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 151/144	22. Price 9.25
	20. Security Class (This Page) UNCLASSIFIED		

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## ACKNOWLEDGMENTS

Any success enjoyed by this project could not have been realized without the enthusiastic cooperation of the many far-sighted, progressive firms in Southeast Texas that provided the primary data used in this report. It is to those generous firms that this project owes its largest debt of gratitude.

The staff which worked so diligently collecting and editing data include the following faculty and students of Lamar University: Hi Kim, Charles McCullough, Bill Platzler, Carl Carruth, R. O. Bennett, C. T. Bennett, Jim Harvey, Mike Rose, Mike McLaughlin, David Anderson, Robert Stakes, Randy Bellard, Jack Odem, Richard Drapeau, Gilbert Matthijetz, Peggy Baillo, and Ben Whittington.

Additionally, typing was done by Phyllis Pope, Jeanette Matthijetz and Judy Lide. Advice on methodology and report content was generously provided by Drs. C. D. Kirksey and Richard T. Cherry.

Acknowledgement must also be made for the many contributions made by Dr. H. W. Grubb, Project Coordinator, and his staff.

Finally, it is necessary to thank my family for their encouragement and understanding during the period that it has taken to complete this report.

## PREFACE

Professor Wassily Leontief of Harvard University published the first Input-Output analysis of the U. S. Economy in 1936. As opposed to other analytic tools used by economists which emphasize understanding of economic phenomena through economic variables, such as employment, income, the interest rate, the price level, gross product, value added, and investment, Leontief's Input-Output techniques dealt with the problem of understanding the structure of specialized functioning economies, and the ways in which the individual parts influence each other. The Input-Output technique permits the analyst to classify and organize transactions data about the economy into mathematical statements which represent the trading among the individual sectors of the economy. The models systematically display each sector's sales and purchases and quantitatively measure outputs and inputs of each sector for the time period chosen. A solution of the system of equations provides quantitative estimates of interindustry relationships.

Since Leontief's first Input-Output publication in 1936, Input-Output Models of the U. S. Economy have been published by the Bureau of Labor Statistics of the U. S. Department of Labor and by the Office of Business Economics of the U. S. Department of Commerce. The former was for the year 1947 and the latter were for the years 1958 and 1963. A number of other national Input-Output Models have been prepared, including models for Japan, The United Kingdom, France, Sweden, The Netherlands, Russia, and Israel. In recent years, Input-Output Models of economies of states within the United States have been published. Notable examples are those for West Virginia, Kansas, Washington, Arizona, Nebraska, North Carolina, New Mexico and Mississippi. Other recent studies of regions and parts of states include The Lower Colorado Region, parts of California, Pennsylvania, Oklahoma and Texas.

Governments and industries alike have found the information provided by Input-Output Models to be useful in planning future activities and assessing the economic impact of selected investments and policies. Industries such as Western Electric, Celanese Corporation, and United States Steel Corporation have used Input-Output analyses to assist in the planning of procurement of input materials, intra-industry management of diverse but interrelated departments and the estimation of expected direct and indirect consumption of products produced both by direct customers as well as the customers of their respective customers. Notable uses of Input-Output Models by governmental agencies are the evaluations of economic impacts of public facility construction, defense spending, and water project construction.

In 1968, the Population and Economics Task Force of the Planning Agency Council for Texas initiated an extensive interindustry study of the Structure of the Texas Economy. Funding was obtained through a U. S. Department of Housing and Urban Development 701 Comprehensive

Planning Grant with one-third state and two-thirds federal monies. Project administration, leadership, and direction was placed in the Division of Planning Coordination of the Office of the Governor.

The major aim of the program was the estimation of Input-Output Models of regional economies within Texas and of the Texas statewide economy for 1967. The procedures emphasized estimation of Input-Output Models from a sample of primary data. Secondary data were required for the purpose of calculating a part of the Input-Output Model parameters, including the individual sector or industry output totals. The study year 1967 was chosen, since 1967 was the most recent year for which complete censuses of manufacturing, business, transportation, and mineral industries were available for Texas.

Nine Texas Universities were invited by the Governor to participate in the project. For study purposes, Texas was divided into nine regions and the Governor's Office initiated a series of contracts with each of the nine participating universities (later reduced to eight) for the collection of data from a sample of manufacturing and business establishments of a specific region and the estimation of the regional Input-Output Model. Each contract provided for a project staff and a project director at each participating university. The contractual arrangement further provided for uniform coordination of regional projects to the extent that definitions and standard questionnaires, data processing procedures, and data classification procedures, as determined through the leadership of the statewide project director's office, would be followed in the conduct of each respective regional study.

The state project director's office established the sampling procedure and drew the sample of establishments to be interviewed in each region. The state project director's office issued general guidelines, special reports prepared by individual consultants, and conducted a part of the secondary and primary data processing. Regional project directors participated in the formulation of research guidelines through periodic project directors' meetings and in "special reports" to the state director's office. The regional project staffs conducted the surveys, prepared the survey data for computer data processing, and transmitted copies of the survey data to the state director's office. The survey data from the nine individual regions were combined and used in the estimation of a state Input-Output Model. In addition, each regional project staff analyzed the data and estimated the Input-Output Model for its particular region.

The Southeast regional project was conducted at Lamar University by members of the staff of the Department of Economics. This report presents the Input-Output Model and suggests some types of analyses that can be made of the regional economy. The Input-Output analyses and interpretations are those of the author, and do not necessarily represent the views of the State Project Director, the Office of the Governor, nor the U. S. Department of Housing and Urban Development.

Herbert W. Grubb, Ph.D.  
Texas Input-Output Project Director

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## I. INTRODUCTION

Economic systems throughout the world are confronted with the problem of producing goods and services from limited resources to satisfy the many and varied desire of consumers. Because resources are limited with respect to the demand for goods and services which they make, it is necessary to establish a system of priorities to enable choices to be made among the infinite alternative uses to which the resources may be put, so that consumer satisfaction may be maximized. Economic theory has traditionally hypothesized that the consumer has perfect knowledge of both his own desires and the options available to him. Armed with this information, it is possible for the consumer to utilize his limited income to purchase the combination of goods and services that will yield the maximum satisfaction for him. Likewise, businesses which are assumed to have perfect knowledge and mobility, will engage in those activities which allow them to maximize profits.

However, once one moves from the theoretical framework into the real-world environment, the contrast between the hypothesized, rational, razor-sharp consumers and businesses with the actual becomes striking. It is simply impossible to expect consumers, businesses and governmental units to be able to make consistent, rational decisions expeditiously. Rather, in the modern world of today with intricate interdependencies existing among the various economic units, one can only build systematic planning models which aid the policy maker in formulating a rational course of action. It should be emphasized that these models do not remove all of the uncertainty that surrounds a problem area, nor do they guarantee total accuracy. But, these models reduce the amount of uncertainty and allow an experienced analyst to formulate policies with a higher probability for achieving desired results.

## A. The Problem

Although economic data at the national level have proliferated in recent years, a corresponding growth has not been experienced at the state and regional levels. The dearth of good, usable data at the state and local levels, coupled with the lack of state-wide planning tools, has forced public and private economic planners to formulate programs on the basis of inadequate information. Hence, it may be concluded that planning based on inadequate information both in the public and private sectors causes a waste of resources and a cost to the overall economy.

While recognizing the impossibility of achieving a perfect information system in today's complex, ever-changing economy, the Texas Input-Output Project's major purpose is to improve the quality of the present system. To accomplish this goal, the present study will endeavor:

(1) to measure the gross output of each sector<sup>1</sup> of the Southeast Texas regional economy by value and ultimate destination; (2) to measure the inputs of each regional sector by value and location of supplier; (3) to calculate the interdependency among the region's processing sectors; and, (4) to mathematically simulate the structure of the regional economy.

#### B. Importance of the Study

In the highly specialized, multi-stage of Texas economy of today, it is easy to overlook relationships that exist among the various processing sectors. Without efficient planning models which accurately describe intricate interindustry relationships, governments cannot devise rational tax programs or select and plan properly for public investment projects. Likewise, private businesses are unable to accurately appraise the effects of changes such as changes in quantity demanded which may occur in a process several stages removed, or make accurate plans for private investments.

To provide such a planning model is the *raison d'etre* for the Texas Input-Output Project. This point was clearly made by Dr. Herbert W. Grubb when he stated:

"The purpose is to provide more complete and more accurate information to guide planning and policy-making functions of state and local government insofar as major public investments in natural resources, industrialization, transportation, education, and taxation than has heretofore been available. The results of the project will also serve private industry in a major way in that local in-state, out-of-state, and export markets for industrial products and the sources of supply of industrial inputs will be shown for each economic sector."<sup>2</sup>

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<sup>1</sup>A sector is the population of establishments which produce similar products. The products may be broadly defined, such as chemicals, to include a wide range of different items, or may be narrowly defined, such as caustic potash, to include only one item.

<sup>2</sup>Herbert W. Grubb, "Introduction to the Texas Input-Output Project" (Paper presented at the Governor's Industrial Expansion Conference, Austin, Texas, May 7, 1969).

## II. INPUT-OUTPUT METHODOLOGY

### A. Historical Development

The first formal input-output analysis was presented by Francois Quesnay in 1758. The analysis, published under the title of Tableau Economique, investigated the wealth generating potential of a single farm in an economy. In the paper, important interdependencies among economic sectors were demonstrated and the now familiar Keynesian-type multiplier analysis was applied to a change in output from a single farm.

Following Quesnay, the next major event in the development of input-output analysis occurred in 1874 with the publication of Elements d'Economie Politique Pure by Leon Walras. Walras, an able mathematician, was interested in the simultaneous determination of prices in an economy. His investigations, therefore, took him out of the area of partial equilibrium and into the area of general equilibrium. The interdependent relationships of an economy were shown through a system of simultaneous equations. The system, however, was viewed by Walras himself to be purely theoretical and incapable of empirical verification. Walras reasoned that even if the overwhelming job of data collection could be achieved, the unsophisticated state of statistical techniques and the lack of high speed computers rendered the handling of such data virtually impossible.

Technological advances in communications and mechanical data handling equipment, coupled with the development of statistical techniques, enabled the final major extension to the body of input-output theory by Wassily Leontief to become an operational reality. First in the 1936 article, "Quantitative Input-Output Relations in the Economic System of the United States"<sup>3</sup>, and later amplified in his The Structure of American Economy, 1919-1929,<sup>4</sup> Leontief introduced the basic techniques of input-output analysis as they are known today. Although refinements have been made and tables have become less aggregated, the techniques being used today to construct input-output tables are basically the same as those appearing in Leontief's original works.

### B. Components of the Input-Output Framework

The input-output model consists of three tables or matrices. The first of these, the transactions matrix, establishes the structure out

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<sup>3</sup>W. W. Leontief, "Quantitative Input-Output Relations in the Economic System of the United States", The Review of Economics and Statistics, XVIII August 1936, pp. 105-125

<sup>4</sup>W. W. Leontief, The Structure of American Economy (New York: Oxford University Press, 1953).

of an economy. That is, it identifies the dollar volume of sales and purchases that take place among the economic sectors of the region, state, or nation that is being investigated. A transactions table may be easily interpreted since the purchases of each sector are shown as row entries. The composition of a transactions table is shown in Table 1.

The hypothetical economy described by Table 1 consists of four processing sectors, a final demand sector, and a final payments sector. In this example, the processing sectors are agriculture, manufacturing, retail trade and services. The final payments sector is a non-processing sector which "adds value" to the goods produced in the processing sectors. It may be thought of as an input which is not produced by an industry in the processing sector. Examples of this type of input include household services (labor), imports, depreciation, and government. The final demand sector is the exogenous or autonomous variable in this analysis. Final demand is the source of the insatiable desire for goods and services produced by an economy. It is important to note that a change in final demand, i.e., a change in desire for finished goods and services, signals the processing sectors to change their level of output.

In the transactions table, each industry appears on both a column (purchaser of inputs) and a row (seller of outputs). As an example of how interindustry flows may be traced through the transactions table, refer to the agriculture sector. Reading down the column headed by agriculture, it is seen that this industry purchases \$1 million of its inputs from itself, e.g., a horse breeder purchases alfalfa from a farmer, \$2 million from manufacturing, \$7 million from retail trade, \$3 million from services and \$5 million from final payments. Total purchases are \$18 million. In addition to its role as a purchaser of inputs in the economy, agriculture also functions as a seller of outputs. By reading across the agriculture row, it is observed that the industry sells \$1 million to itself, \$2 million to manufacturing, \$1 million to trades, \$9 million to services and \$5 million to final demand. Total sales are also \$18 million.

The transactions table is a double-entry bookkeeping system which records all of industry's sales and purchases. Therefore, it is necessary for a processing sector's total output or sales (adjusted for inventory change) to equal its total inputs or purchases, i.e., the value of an industry's output is equal to the compensations paid for its inputs.

The second matrix in input-output analysis is the direct requirements matrix. Its function is to reveal the amount of input which is required to produce one dollar's worth of finished product by each processing sector. The direct requirements matrix is calculated from the transactions matrix by dividing the individual cell entries in a processing sector's column by the column total. For example, to calculate the coefficients for agriculture, it is necessary to divide each cell of the agriculture column by \$18 million; i.e., \$1 million of inputs from agriculture, \$2 million of inputs from manufacturing, \$7 million of inputs from retail trade and \$3 million of inputs from services. By repeating this procedure for each of the other processing sectors, the direct requirements matrix of Table 2 is obtained. Note specifically that this table indicates that agriculture purchases \$0.06 of inputs from agriculture, \$0.11 of inputs from manufacturing, \$0.39 of inputs from retail trade and \$0.17 of inputs from services for each dollar's worth of output

Table 1: Transactions Matrix

Purchasing Sector \ Selling Sector	Agriculture	Manufacturing	Retail Trade	Services	Final Demand	Total Output
	(\$ millions)					
Agriculture	1	2	1	9	5	18
Manufacturing	2	4	4	2	2	14
Retail Trade	7	1	2	1	2	13
Services	3	1	3	2	8	17
Final Demand	5	6	3	3	2	19
Total Outlay	18	14	13	17	19	81

Source: Hypothetical

5

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Table 2: Direct Requirements Matrix

Purchasing Sector \ Selling Sector	Agriculture	Manufacturing	Retail Trade	Services
Agriculture	.055556	.142857	.076923	.529412
Manufacturing	.111111	.285714	.307692	.117647
Retail Trade	.388889	.071429	.153846	.058824
Services	.166667	.071428	.230769	.117647

Source: Table 1

Table 3: Direct Plus Indirect Requirements Matrix

Purchasing Sector Selling Sector	Agriculture	Manufacturing	Retail Trade	Services
Agriculture	1.5377567	.468919	.589669	1.024374
Manufacturing	.676208	1.690519	.894043	.688730
Retail Trade	.802326	.389814	1.566860	.636628
Services	.555009	.325022	.591123	1.549083

Source: Table 1



produced.

The third matrix in input-output analysis is the table of direct plus indirect requirements. This matrix is also called the interdependence table. The data of this table are referred to as interdependence coefficients which are estimates of both the direct and indirect output required of each processing industry to produce one dollar's worth of output for a given industry. Interdependence coefficients show the "linkages" within the entire economic system by relating the output of one producing industry to its own final consumption or demand and to the output of other producing sectors. This set of coefficients reflects not only the amount of output in a given industry necessary to supply needs of final demand of that industry, but also the indirect effects on output in this particular industry in relation to final demand for output of other industries.

An example of a direct plus indirect requirements matrix is given in Table 3. Continuing with the previous example, in order for agriculture to deliver an additional \$1.00 of output to final demand, the total requirements of the economy are increases of output of \$1.54 in agriculture, \$0.68 in manufacturing, \$0.80 in retail trade, and \$0.56 in services. Thus, the final demand value of the increase of \$1.00 in agriculture output is \$3.58.

### III. THE ECONOMY OF SOUTHEAST TEXAS

#### A. Regional Delineation

For purposes of the Texas Input-Output Project, the State of Texas was divided into nine regions (Figure 1.). With few exceptions, the 21 multi-county planning regions defined by the Governor's Office in December, 1968, were used as "building blocks" in delineating the input-output regions.<sup>5</sup>

The Southeast Texas Region (Region 9) is composed of 15 counties, as can be seen in Figure 2, with a combined area of approximately 12,000 square miles.

#### B. Brief History

Prior to the early 1900's, timber production and timber-related activities dominated the economy of the area. The forests of pine, cypress, hickory, oak and magnolia beckoned lumbering firms, which by the late 1870's had nearly depleted the great Northern forests.<sup>6</sup> The influx of

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<sup>5</sup>For a discussion of delineating criteria and characteristics of each of these planning regions, see "Planning Regions for the State of Texas", December, 1968, Office of the Governor, Division of Planning Coordination.

<sup>6</sup>For a general discussion of the history of lumbering, see William B. Greeley, Forests and Men (Garden City, N.Y.: Doubleday & Co., Inc., 1951.)

Figure 1.

# TEXAS INPUT-OUTPUT REGIONS

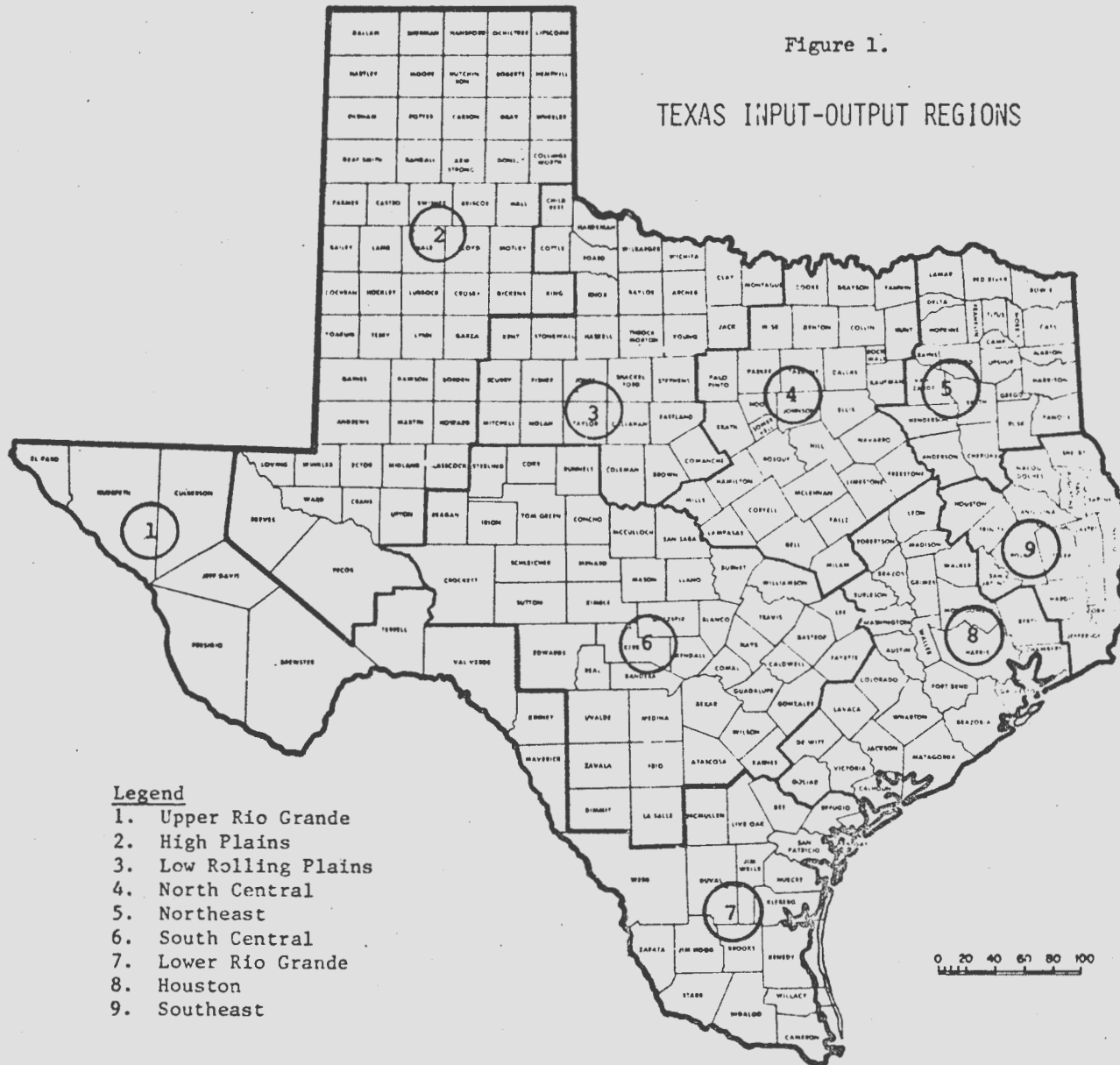
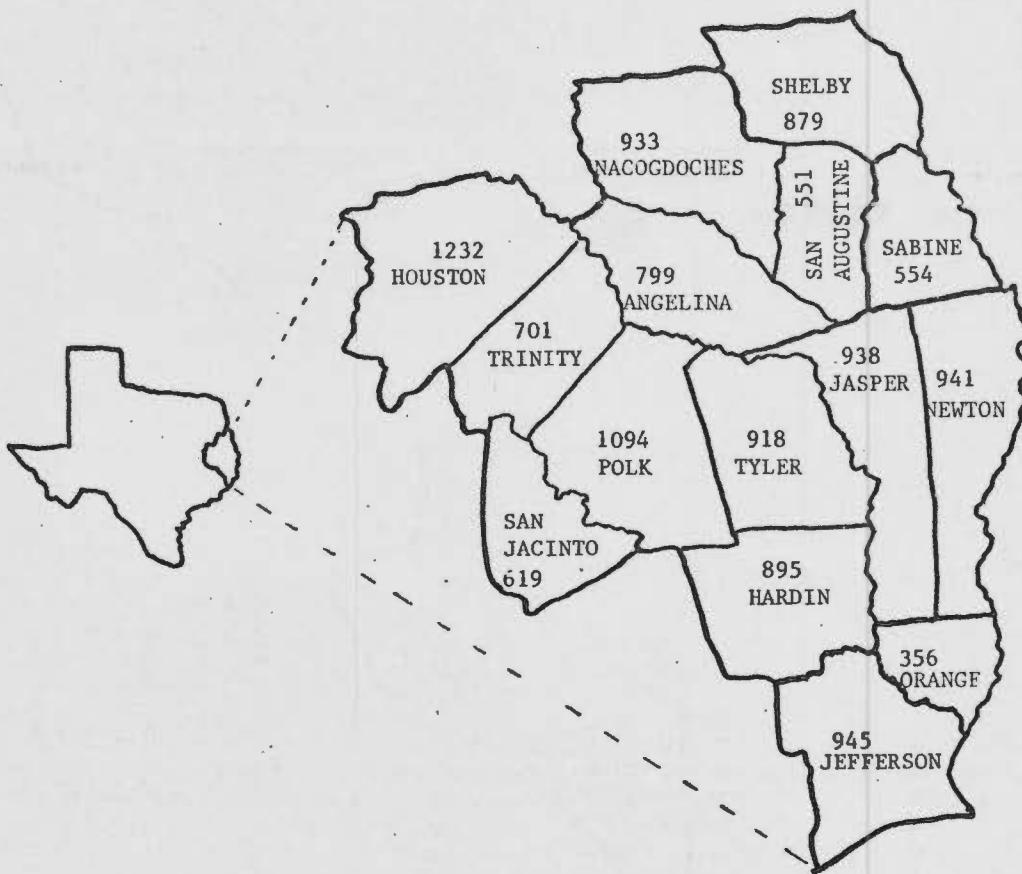


FIGURE 2.

COUNTIES AND AREAS IN SQUARE MILES

SOUTHEAST REGION; TEXAS 1967



these new firms into an already established, but modest sized industry, generated employment opportunities for the resident labor of Southeast Texas. As a result of increased logging activities, many saw mills, shingle mills and barrel factories were established. Production of lumber and related products grew so rapidly that by 1880 the existing transportation system could not disperse all the lumber and related products to markets throughout the United States. Spurred by the presence of a major market for services, railroads began laying more track in the region. In 1882, the Houston East and West Texas Railroad surveyed Angelina and Nacogdoches counties in preparation to lay track, and founded the city of Lufkin. Meanwhile in Jefferson County, the Kansas City-Pittsburg and Gulf Railroad laid track on the banks of the Sabine River and undertook the construction of a deep water canal which would enable ocean going vessels to reach the rail facilities at Port Arthur. This project was completed in 1899.

As lumbering firms cleared tract after tract of forest land, much of the acreage was converted to agricultural endeavors. The primary crops included cotton, corn and rice. Rice farming, however, did not fully come into its own until after irrigation facilities were constructed in Jefferson and Orange counties in the late 1800's and early 1900's. The new irrigation facilities boosted the production of rice so that by the second half of the 1930's, that crop accounted for more than 90 percent of the value of all crops. In recent years, poultry production has become an agricultural activity important to the regional economy--especially the northern counties. The counties of Shelby, Nacogdoches, and to a lesser extent, Angelina, are the center in the region of poultry raising and processing, along with manufacturing of poultry feed.

Perhaps the most significant event in the development of the region occurred on January 10, 1901. It was on that date that the Lucas gusher "blew in" at the Spindletop oil field near Beaumont in Jefferson County. This discovery of a major supply of petroleum in close proximity to the natural water routes of the Gulf Coast brought a period of growth that continues today. In addition to oil drilling firms, petroleum associated components attributed to the growth of the area. These components included pipeline companies to transport the petroleum from the oil fields; refineries to process the crude petroleum; and later, petro-chemical plants which rely on refineries to supply their basic feed-stocks. As a result, Jefferson and Orange counties have become the home of one of the largest petroleum refining and petro-chemical complexes in the world.

Coincident with the post-Spindletop oil boom, a host of other economic activities began to develop. These included oil field equipment manufacturing, major foundries in Jefferson and Angelina counties and numerous machine shops and metal fabricators. Somewhat later, shipbuilding in Jefferson and Orange counties began to contribute significantly to the economic progress of the area. Although primary impetus was provided through military vessel construction during World War II, cessation of hostilities did not result in a collapse of shipbuilding activities. Instead, shipyards in Beaumont, Port Arthur and Orange began to redirect their efforts to the construction of commercial vessels such as ships, boats, barges, and off-shore oil drilling rigs.

## C. General Economic Data for 1967

Population. Table 4 presents population by county for the two years 1960 and 1967. In 1967, Jefferson County with 249,300 inhabitants contained 44.5 percent of the Region's population. The county with the smallest population, San Jacinto County, had only 5,900 persons, which was 1.1 percent of the total. Hardin County had the greatest rate of growth with a change of 23.8 percent and Houston County ranked last with a percentage change of -4.5.

Total Income. Total personal income in 1967 amounted to \$1,425,000. (See Table 5.) The counties with the most industrial activities ranked highest in income generated. The two counties of Orange and Jefferson contributed 70 percent of the total or \$999,293,000. San Jacinto ranked lowest with a total income of only \$6,487,000.

Wholesale and Retail Sales. Wholesale and retail sales followed the same general growth pattern exhibited by population and total income. Once again Jefferson County was the leader, followed by Orange County and then Angelina County. Although wholesale data are unavailable for San Jacinto and Sabine counties, it can be seen from Table 6 that their activity is unlikely to be significant enough to rank the county above any of the other 14 counties.

Manufacturing. The dominance of Jefferson and Orange counties demonstrated above can be attributed to the manufacturing base of their economies. Within the two counties exists a petroleum refining and petrochemical complex of national and international significance. In addition, other major manufacturing activities include shipbuilding, metal foundries and fabricators.

The relative influence of manufacturing in each of the 15 counties in Southeast Texas is indicated in Table 7. In the northern part of the Region, Angelina, Nacogdoches, and Shelby counties rank highest in the number of manufacturing establishments. In the southern part of the Region, Jefferson and Orange counties contained the largest number of manufacturing firms.

Minerals. Polk County ranked first in mineral production, with an output valued at \$81.96 million. (Table 8). Jefferson County ranked a close second by producing minerals with a value of \$78.838 million. Third and fourth, respectively, were Hardin County (\$28.163 million) and Orange County (\$13.101 million).

Agriculture. Agriculture is an extremely important economic activity in the northern part of the study area. Important crops in the Region include rice, peanuts, soybeans and corn. More significant than crop production, however, are cattle, dairy and poultry products. These "animal" products account for approximately 75 percent of the agricultural income. Personal income to farmers amounted to \$77,577 thousands (Table 9.). Nacogdoches and Shelby counties ranked first and second in personal income to farmers with 23.3 percent and 23.1 percent respectively of the Regional farm income.

Table 4: Population by County in 1960 and 1967--  
Southeast Region; Texas

County	Population		Percent Change
	1960	1967	
Angelina	39,814	48,300	21.3
Hardin	24,629	30,500	23.8
Houston	19,376	18,500	-4.5
Jasper	22,100	27,200	23.1
Jefferson	245,659	249,300	1.5
Nacogdoches	28,046	33,200	18.4
Newton	10,372	10,900	5.1
Orange	60,357	66,200	9.7
Polk	13,861	14,300	3.2
Sabine	7,302	7,500	2.7
San Augustine	7,722	7,500	-2.9
San Jacinto	6,153	5,900	-4.1
Shelby	20,479	21,300	4.0
Trinity	7,539	7,700	2.1
Tyler	10,666	12,200	14.4
Region TOTAL	524,075	560,500	7.0

Source: U.S. Department of Commerce, Bureau of the Census, 1960 Census of Populations. Estimates of the Population of Counties, Bureau of the Census, Population Estimates.

Table 5: Total Personal Income by County--  
Southeast Region; Texas 1967

County	Personal Income (Thousands of Dollars)
Angelina	119,340
Hardin	44,073
Houston	35,240
Jasper	54,054
Jefferson	818,224 <sup>a</sup>
Nacogdoches	60,825
Newton	14,190
Orange	181,069 <sup>a</sup>
Polk	27,220
Sabine	12,489
San Augustine	9,585
San Jacinto	6,487
Shelby	31,835
Trinity	11,114
Region TOTAL	1,425,745

<sup>a</sup> was broken out of SMSA data

Source: U.S. Department of Commerce, Office of Business  
Economics

Table 6: Wholesale and Retail Sales by County--  
Southeast Region; Texas 1967

County	Retail Sales (Thousands of Dollars)	Wholesale Sales (Thousands of Dollars)	Total (Thousands of Dollars)
Angelina	47,061	72,965	120,026
Hardin	21,150	5,038	26,180
Houston	15,400	12,233	27,633
Jasper	25,753	7,264	33,017
Jefferson	326,118	267,988	594,106
Nacogdoches	29,782	21,512	51,294
Newton	5,595	590	6,185
Orange	62,134	17,305	79,439
Polk	15,233	6,148 <sup>a</sup>	21,381
Sabine	5,661		5,661 <sup>b</sup>
San Augustine	6,173	4,387	10,560
San Jacinto	2,409	<sup>a</sup>	2,409 <sup>b</sup>
Shelby	22,600	9,870	32,470
Trinity	10,729	2,219	12,948
Tyler	10,745	3,277	14,022
Region TOTAL	606,543	430,796	1,037,339 <sup>b</sup>

<sup>a</sup> Data withheld to avoid revealing confidential information of individual firms.

<sup>b</sup> Understated by amount of wholesale sales which were withheld.

Source: U.S. Department of Commerce, Bureau of the Census, 1967  
Census of Business.



Table 7: Number of Manufacturing Establishments  
By Employment Size and County  
Southeast Region; Texas 1967

County	Number of Firms by Employment Size			
	1 - 19 Employees	20 - 249 Employees	250 + Employees	Total
Angelina	31	30	9	70
Hardin	12	6	1	19
Houston	9	6	0	15
Jasper	14	6	1	21
Jefferson	151	75	23	249
Nacogdoches	23	14	3	40
Newton	3	3	0	6
Orange	31	21	10	62
Polk	9	3	1	13
Sabine	4	2	1	7
San Augustine	4	1	0	5
San Jacinto	2	0	0	2
Shelby	20	7	2	29
Trinity	5	1	0	6
Tyler	8	7	1	16
Region TOTAL	326	182	52	560

Source: Texas Employment Commission

Table 8: Value of Mineral Production by  
County--Southeast Region; Texas 1967

County	Value of Minerals (Thousands of Dollars)
Angelina	328
Hardin	28,163
Houston	7,002
Jasper	2,257
Jefferson	78,838
Nacogdoches	6,061
Newton	5,704
Orange	13,101
Polk	81,961
Sabine	--
San Augustine	3
San Jacinto	2,389
Shelby	825
Trinity	166
Tyler	2,641
Region TOTAL	229,439

Source: U.S. Department of the Interior, Bureau of Mines,  
Mineral Year Book, 1967.

Table 9: Farm Income by County--  
Southeast Region; Texas 1967

County	Personal Income (Thousands of Dollars)
Angelina	1,888
Hardin	987
Houston	5,741
Jasper	3,290
Jefferson	14,183
Nacogdoches	18,092
Newton	2,026
Orange	1,365
Polk	1,487
Sabine	5,334
San Augustine	3,069
San Jacinto	954
Shelby	17,944
Trinity	1,217
Region TOTAL	77,577

Source: U.S. Department of Agriculture

#### IV. CONSTRUCTION OF THE INPUT-OUTPUT MODEL OF THE SOUTHEAST TEXAS REGION, 1967

Basically, there are two methods of obtaining data for a regional matrix. If the region is a component of a broader area which has been the subject of an input-output analysis, coefficients developed in the broader study may be applied to regional control totals to generate the dollar flow matrix. For example, since an input-output model of the United States economy exists, state models for each of the individual fifty states could be obtained by applying national coefficients to state sector aggregates. While this method provides a relatively inexpensive means for obtaining regional tables, it suffers from the obvious deficiency that unless the region is a replica in miniature of the larger economy, such estimations of regional transactions will likely be erroneous. A second method relies on a program of sampling to obtain the appropriate regional data. This method has been employed in the Texas Input-Output Project.

Surveys were planned and organized so that the results of the statistical analysis would identify the region of location of the regional economy's customers and suppliers. The three major regions of interest are in-state but outside the Southeast Texas Region, outside Texas but within the United States, and foreign areas.

##### A. Determination of Sectors

The level of sectoral detail achieved in the regional data collection for the Input-Output Project is the maximum level of detail used in the state model. In some cases, this level of detail was impossible to obtain. However, every effort was made to collect data within each region in as much detail as possible up to the level specified in the state Model. The necessary aggregations of sectors were made after the data were obtained.

The determination of the exact number of processing sectors to be included in the state Model was made on the basis of available data relating to the different types of economic activity in Texas. Data sources included the U.S. Bureau of Census publications, Texas Employment Commission reports, and reports of the Texas Comptroller's Office. Each sector of the State Input-Output Model included one or more of the four digit Standard Industrial Classifications (SIC) contained in the Standard Industrial Classification Code Manual, 1967<sup>7</sup> (with the exception of the agriculture sectors which were defined on a crop basis.)

Using the state model as a guide, the regional model was formed to contain 71 processing sectors. Consolidation of sectors in the regional model was required for two reasons. First, the regional economy

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<sup>7</sup>Standard Industrial Classification Manual, Bureau of the Budget, Office of Statistical Standards (Washington D.C., U.S. Government Printing Office, 1967).

did not have firms engaged in some of the activities found in the state-wide economy. Second, the decision to adopt the United States Bureau of the Census' nondisclosure rule eliminated some regional sectors because such sectors did not contain enough establishments to permit publication of the statistical summaries without disclosure of individual establishment data.<sup>8</sup> The full regional model is presented in Table 10. Both the endogenous and exogenous sectors are shown by name, sector number and the corresponding SIC number. Endogenous sectors are those transactions which are included inside the processing sectors matrix. Exogenous sectors make up the Final Demand and Final Payments sectors, i.e., these sectors are located outside of the processing sectors matrix.

#### B. Determination of Sample Firms

The basic sample design for this study was devised specifically for manufacturing firms.<sup>9</sup> The design called for a stratified random sample to be drawn according to the following specifications:

- (1) 100 percent of the manufacturing establishments with 250 or more employees;
- (2) For each of the other two strata (1-19 and 20-249 employees):
  - a. For each sector with 1-5 establishments, one establishment was drawn at random.
  - b. For each sector with 6-20 establishments, two establishments were drawn at random with replacement.
  - c. For each sector with more than 20 establishments, a 10 percent proportionate sample was drawn with replacement.
  - d. In addition to the primary sample drawn according to the criteria of a, b, and c, alternatives were drawn at random with replacement.

The sample of establishments to be interviewed was drawn by the State-wide Input-Output Project coordinator's office with some assistance from selected regional input-output project directors. Major surveys were conducted in manufacturing, wholesale trade, retail trade and services sectors. In addition, samples were also collected from communications, utility, mining and construction activities.<sup>10</sup>

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<sup>8</sup>The nondisclosure rule prevents any activity which contains fewer than 4 firms to be presented by itself in a sector.

<sup>9</sup>For a detailed explanation of the design, see Input-Output Procedure No. 10, page 2, from Dr. Herbert W. Grubb, State Project Director Division of Planning Coordination, Office of the Governor, State of Texas.

<sup>10</sup>Data collection for these activities and for the trades was done through special projects. Directors for each of the special projects

TABLE 10.

Sectors of the Southeast Texas Regional Input-Output Model; 1967

Sector Number	Sector Name	SIC COMPONENTS
<u>Agriculture, Forestry and Fisheries:</u>		
1	Crop Production	011, 012, 021, 031, 041
2	Animal & Poultry Production	013, 023
3	Agricultural Supply & Services	071, 072, 073, 095
4	Forestry	081, 082, 084, 085, 086
5	Fisheries	
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<u>Mining</u>		
6	Crude Petroleum & Natural Gas	131, 132
7	Oil & Gas Field Services	138
8	All Other Mining	141, 142, 144, 145, 147, 149
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<u>Construction</u>		
9	Residential, Commercial & Industrial	151, 170
10	Facility Construction	161
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<u>Manufacturing</u>		
11	Meat & Poultry Products	201
12	Dairies	202
13	Grain Products	204
14	Bakery Products	205
15	Processed Food & Kindred Products	203, 206, 207, 209, 212
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Sector Number	Sector Name	SIC COMPONENTS
16	Beverages	208
17	Textile Products & Apparel	221, 222, 223, 224, 225, 226, 227, 228, 229, 231, 232, 233, 234, 235, 236, 237, 238, 239
18	Logging	241
19	Lumber Mills	242
20	Millwork	243, 244, 249
21	Furniture & Fixtures	251, 252, 253, 254, 259
22	Paper Products	261, 262, 263, 264, 265, 266
23	Printing & Publishing	271, 272, 273, 274, 275, 276, 277, 278, 279
24	Chemicals	281, 282, 283, 284, 285, 286, 287
25	Petroleum Products	291, 295, 299
26	Rubber, Plastic & Leather	301, 306, 307
27	Glass, Clay & Stone Products	230, 322, 323, 325, 326, 328, 329
28	Cement & Concrete Products	327, 324
29	Metal Smelting & Casting	331, 332, 333, 334, 335, 336, 339
30	Fabricated Metal Products	344
31	Machined Metal Products	341, 342, 343, 345, 346, 347, 348, 349
32	Machinery	351, 352, 353, 354, 356, 357, 358, 359
33	Electrical Apparatus	361, 362, 363, 364, 365, 366, 367, 369
34	Transportation Equipment	371, 372, 373, 374, 375, 379
35	All Other Manufacturing	381, 382, 383, 384, 385, 386, 387, 381, 383, 384, 385, 396, 398, 399

Sector Number	Sector Name	SIC COMPONENTS
<u>Transportation</u>		
36	Railroad Transportation	401, 402, 404
37	Motor Transportation	411, 412, 413, 421, 422, 423
38	Water Transportation	441, 442, 444, 445, 446
39	Air Transportation	451, 452, 458
40	Pipeline Transportation	461
41	All Other Transportation	414, 415, 417, 422, 472, 474, 478
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<u>Communications</u>		
42	Telephone & Telegraph	481, 482
43	Radio & TV	483, 489
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<u>Utilities</u>		
44	Gas	492, 493, 914, 924, 934
45	Electricity	491, 493, 915, 925, 935
46	Water	495, 496, 910, 920, 930, 494
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<u>Wholesale Trade</u>		
47	Wholesale Equipment & Supplies	501, 508
48	Wholesale Groceries	504
49	Wholesale Farm Products	505, 473
50	Wholesale Petroleum Products	5092
51	General Wholesale	502, 503, 506, 507, 5091 5092, 5093, 5094, 5095, 5096, 5097, 5098, 5099
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Sector Number	Sector Name	SIC COMPONENTS
<u>Retail Trade</u>		
52	Lumberyards	521
53	Automobile & Tractor Dealers	525, 551, 552, 553, 753
54	Hardware & Home Furnishings	522, 523, 524, 525, 571, 572
55	Department Stores & Variety Stores	531, 533, 539, 561, 562, 563, 564, 565, 566, 567, 568, 569
56	Food Stores	541, 542, 543, 544, 545, 546, 549
57	Gasoline Service Stations	554
58	Eating & Drinking Places	581
59	All Other Retail	532, 534, 535, 591, 592, 593, 594, 595, 597, 598, 599
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<u>Finance, Insurance, Real Estate</u>		
60	Banking & Credit Agencies	601, 602, 605, 611, 612, 614, 615, 616
61	Insurance Carriers	631, 632, 633, 635, 636, 639
62	F.I.R.E. Not Elsewhere Classified	621, 622, 623, 638, 641, 651, 655, 656, 661, 671, 672, 673, 679
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<u>Business Services</u>		
63	Legal Services	811
64	Lodging	701, 702, 703, 704
65	Personal	721, 723, 724, 725, 726, 727, 729
66	All Other Business Services	722, 731, 733, 734, 735, 736, 739, 781, 782, 892
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Sector Number	Sector Name	SIC COMPONENTS
<u>Other Services</u>		
67	Repair Service	762, 763, 764, 769
68	Medical Services	801, 802, 803, 804, 806, 807, 809
69	Education Services	821, 822, 823, 824, 829
70	Bookkeeping Services	893
71	All Other Services	751, 752, 781, 788, 791, 792, 793, 794, 841, 842, 861, 863, 864, 865, 866, 867, 869, 881, 891, 899, 862
<u>Final Demand</u>		
72	Households	
73	Federal Government	
74	State Government	
75	Local Government	
76	Exports	
77	Inventory Change	
78	Capital Investment	
<u>Final Payments</u>		
72	Households	
73	Federal Government	
74	State Government	
75	Local Government	
76	Imports	
77	Gross Saving	

In addition to the special projects which required the collection of primary data by each regional project, Professor Richard Foote of Texas Tech University prepared estimates for the agricultural sectors for each regional model and the state model. Due to the vast amount of available primary and secondary data, no interviewing was required for the agricultural sectors.

### C. Data Collection

Since the data contained in an input-output study reveals the financial transactions of businesses--including profits, taxes and wages--during some base year, it was critical to the success of the Texas project that a competent staff be assembled to conduct interviews. If interviewers could not obtain the confidence of sample firms, refusals to supply information or completely inaccurate responses could render the project meaningless. Fortunately, this region was able to gather a reliable staff composed of faculty and graduate students of the School of Business Administration of Lamar University, who conducted interviews during the summers of 1969 and 1970.<sup>11</sup>

Although each interviewer tried to obtain access to the actual invoices of firms that agreed to cooperate in the project, success in this area was limited. Owners or managers of establishments preferred to give interviewers the necessary data themselves. This was done in one of two ways. The first method consisted of the owner estimating dollar values of his sales and purchases without referring to records. In most cases, this type of information was obtained from the smallest firms. Data obtained in this way were checked for consistence with data from similar establishments before the questionnaire was accepted. The second and most common method consisted of the official or owner responding to questions with a reference before him, such as the 1967 Survey of Manufacturer's Working Papers, or the establishment's Balance Sheet and income statement.

After completing a questionnaire for an establishment, interviewers were required to meet with a member of the coding staff to review and edit the data. This was done so that questionable items could be clarified while still fresh in the minds of interviewers. In the event that satisfactory reconciliations could not be made, the interviewer contacted the establishment again for additional information. If data remained questionable after this step, the questionnaire was rejected.

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(10 cont'd.) were responsible for designing questionnaires and drawing samples. The special projects and their directors are: Trades, Dr. L. Stern of the University of Houston; Communications, Dr. David Moorman of Texas Tech University; Utilities, Dr. Walter Mullendore of the University of Texas at Arlington; Mining, Dr. James Vinson of Hardin-Simmons University; and, Construction, Dr. Ed George of the University of Texas at El Paso.

<sup>11</sup>When the project began, the institution's name was Lamar State College of Technology.

## D. Data Organization and Use

Once a questionnaire was judged to be acceptable, it was coded according to Procedure 13 and processed as follows:<sup>12</sup>

Manufacturing and Services Data: Code forms were key punched and verified and sent to the Austin office, where data for each firm were checked for consistence and arithmetic accuracy.<sup>13</sup>

All Other Data: Code forms were sent to the respective special project directors who processed the data according to the procedures outlined in their "Special Project Completion Reports."<sup>14</sup>

## E. Merchandise Purchased for Resale Adjustments

After the data for each firm passed the consistency and balance test, a significant adjustment had to be made to those cells which recorded purchases from trade sectors, or, equivalently, sales by trade sectors. Because the convention adopted by the Texas Project required an industry's sales and purchases to be allocated to the ultimate consumer of products and previous processor of inputs in terms of producers' prices, f.o.b., the shipper, merchandise purchased for resale (MPRS) by trades sectors or inputs obtained from trades sectors had to be stripped out of those cells, so that only value added by trade (trade margins) would be present. MPRS allocating strings for each trade sector were developed.<sup>15</sup> The MPRS strings not only isolated merchandise purchased for resale, but also provided coefficients to allocate the merchandise back to its ultimate source.

Sample data in manufacturing and services were adjusted for MPRS by computer in Austin, and sample data in wholesale and retail trade

<sup>12</sup>Input-Output Procedures: Number 13 (Revised), Office of the Governor, Division of Planning Coordination, Texas Input-Output Project, October 6, 1969.

<sup>13</sup>This check was performed by a computer. For description of program, see: Input-Output Procedures: Number 23, Office of the Governor, Division of Planning Coordination, Texas Input-Output Project, September 22, 1970.

<sup>14</sup>Copies of these reports are on file in the Division of Planning Coordination, Office of the Governor, State of Texas.

<sup>15</sup>The procedures for computing the MPRS strings are found in the following reference: Lewis H. Stern, "Special Report on the Wholesale And Retail Trades", (unpublished report, Office of the Governor, Division of Planning Coordination, Texas Input-Output Project).

were adjusted for MPRS by computer in Houston. All other sample data were adjusted at the regional level with desk calculators.

#### F. Developing the Transactions Matrix

Once sample data had been adjusted for MPRS, the arduous task of obtaining the dollar values for the region's transactions matrix commenced. The first step consisted of the mechanical but tedious process of multiplying input-output coefficients obtained from sample firms by regional control totals to obtain a sector's transactions estimates.

This procedure is demonstrated in Table 11. Suppose that the sample data contained in the table were collected from three representative firms in Sector D, which includes 10 firms. While the sample firms have a total expenditure equaling \$10,000, the control total for the sector indicates that the total expenditure by all firms is \$150,000. It is necessary, therefore, to allocate the \$150,000 on the basis of sample data. This is done by calculating the percentage of the sample firms; inputs purchased from each of the selling sectors and applying these percentages to the sector's control total. It can be seen, for example, that \$500 of the \$10,000 spent by sample firms was used to purchase inputs from Sector A. This represents 5 percent of the total sample expenditures. Applying this percentage to the sector's control total, estimated inputs from Sector A for all firms in Sector D is \$7,500.

After obtaining the dollar values for the sales and purchases of all firms in a sector, one final operation had to be performed to obtain a finalized transactions table for the region. This operation involved the reconciliation of the transactions table based on purchases (columns only) and the transactions table based on sales (rows only) to obtain a balanced transactions matrix. (This matrix may be found in Appendix A. The direct requirements and direct plus indirect requirements matrixes are displayed in Appendix B and Appendix C, respectively.)

#### G. Assumptions

The model described above is based on the following assumptions:

- (1) Each good or service in the economy is supplied by only one sector;
- (2) The inputs purchased by a sector depend only on the quantity of output produced by that sector;
- (3) The total effect of engaging in several types of production is the sum of the separate effects, and
- (4) The structural relationships that exist among the various sectors are unique for a given state of the economy and a given regional trading pattern.

Data collected for this model presents the state of an economy at

Table 11: Purchases of Sector D

Selling Sector	Purchases of Sample Firms	Percent of Total purchases by sample firms	Allocated purchases for Total Sector
A	500	5.0	7,500
B	2,200	22.0	33,000
C	3,300	33.0	49,500
D	750	7.5	11,250
E	2,250	22.5	33,750
F	1,000	10.0	15,000
TOTAL	10,000	100.0	150,000

Source: Hypothetical

some point in time; therefore, it is necessary to state one additional assumption if the results of the model are to be useful for forecasting or predicting purposes. Namely, the structural relationships are assumed to remain relatively stable over a period of time. Unlike the four preceding assumptions which formed the basis for constructing the model, the present assumption governs its use. If the structural relationships identified in the matrix of direct requirements were unstable, the matrix of direct plus indirect requirements would be correspondingly unstable and the model could not be used to predict how a change in final demand would affect the economy. Historically, the variables of technological change, relative process and development of new industries have not changed abruptly, but rather, only gradually. Hence, it is reasonable to assume the economic structure which is determined by these variables will be stable over short periods of time.

## V. ECONOMIC INTERDEPENDENCE IN SOUTHEAST TEXAS

### A. Introduction

The input-output tables which have been constructed for Southeast Texas contain "production recipes" for each sector. These recipes identify the inputs which, during the base year for the project, were required by the various industries to produce goods and services. These "production recipes" should not be equated with industrial production functions. Production functions specify the "real" mix of resources (inputs) needed to produce outputs. In the model presented here, only the "real" resources which are supplied by other regional sectors are specifically named. A "dummy" resource called "imports" is added to these regionally supplied imports. The composition of this dummy import is ignored when isolating intraregional economic interdependencies.<sup>16</sup>

### B. Intraregional Interdependence

An important feature of the structure of the economy of Southeast Texas illuminated by the Texas Input-Output Project is the degree of interdependence which exists among the region's processing sectors. The greater the extent to which regional establishments depend on each other as suppliers of their inputs and purchasers of their outputs, the greater the level of economic activity in the area. For example, suppose that two regions contain automobile manufacturing establishments with equal output capabilities. One region is vertically integrated and orders its steel, upholstery materials, electrical components, etc., from other regional establishments. The other region, lacking the vertical integration, must purchase many of its inputs from outside the region. Clearly, the level of economic activity in the former is

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<sup>16</sup>An import matrix is currently being constructed for the region which will identify the dollar value of specific inputs purchased from other regions.

greater because each time the automobile manufacturer produces an additional car, it increases its requirements from other regional firms who, in turn, must employ greater quantities of regional resources. In the case of the latter region, each additional car produced by the automobile manufacturer requires greater quantities of inputs to be purchased from outside of the region rather than from other regional establishments.

The extent to which processing sectors in Southeast Texas are dependent on other processing sectors in the region for their inputs is indicated in Table 12. In this table, dependency is expressed as the percent of a sector's total purchases which are spent on regionally produced inputs. These percentage values range from a high of 71.5 percent for the producers of meat products to a low of 1.5 percent for air transportation. Following meat producers, loggers, animal producers and crop producers purchase at least 60 percent of their inputs from other regional establishments. In addition, water transportation, millwork and residential, industrial and commercial construction purchase over 50 percent of their inputs from other regional establishments. Somewhat surprising, only these seven sectors out of a total of seventy-one regional sectors purchase as much as 50 percent of their inputs from within the region. For the remaining sixty-four sectors, regional purchases amount to less than one-half of their total purchases of inputs.

The full meaning of these facts may be emphasized by referring to two sectors which are very important to the regional economy--chemicals and petroleum products which purchase, respectively, 17.8 percent and 7.2 percent of their inputs from locally produced sources. Although the dollar impact of these industries on the local economy is significant, it is potentially capable of being much greater. A portion of the 82.2 percent of chemicals' total expenditures and 92.8 percent of petroleum products' total expenditures are used to purchase goods and services produced by processing sectors outside of the region. If local industries could be developed and trade patterns restructured, part of this leakage could be prevented and local economic activity would be stimulated. With fifty-five of the seventy-one regional sectors purchasing less than 25 percent of their inputs from other processing sectors within the region, there exists a tremendous potential for economic growth for Southeast Texas.

Turning now to the dependency of the region's producers on other regional establishments as a market for their outputs, it can be demonstrated (as in Table 13) that generally there is more reliance on other processing sectors to purchase outputs than to supply inputs. Expressing the dependency as the percentage of a sector's total output sold to processing sectors within the region, it is seen that three sectors--logging, oil and gas field services, and agricultural services--depend on intraregional sales to absorb 100 percent of their output. An additional six sectors sold at least 90 percent of their output to other regional processing sectors and a total of twenty-eight sectors sold less than 25 percent of their output to other regional producers.

As in the case of the input data, this information could be useful in initiating a program for regional economic growth. The extent to which output is sold as an intermediate good rather than as a final consumption good causes the region to lose opportunities for economic



Table 12 Percent of Inputs From Other Processing Sectors Within the Region--Southeast Region; Texas 1967

39

Sector Number	Sector Name	Percent
11	Meat and Poultry Products	71.5
18	Logging	64.6
2	Animal and Poultry Production	62.2
1	Crop Production	60.5
38	Water Transportation	58.8
20	Millwork	51.6
9	Residential, Commercial and Industrial	51.4
71	All Other Services	49.3
62	F.I.R.E. Not Elsewhere Classified	47.0
41	All Other Transportation	44.0
3	Agricultural Supply and Services	37.5
43	Radio & TV	34.7
27	Glass, Clay and Stone Products	34.2
37	Motor Transportation	27.2
10	Facility Construction	25.8
36	Railroad Transportation	25.4
26	Rubber, Plastic and Leather Products	24.9
54	Hardware and Home Furnishings	24.2
19	Lumber Mills	22.7
6	Crude Petroleum and Natural Gas	21.6
45	Electricity	21.1
61	Insurance Carriers	20.6
57	Gasoline Service Stations	20.5
49	Wholesale Farm Products	20.1
40	Pipeline Transportation	19.6
30	Fabricated Metal Products	19.4
50	Wholesale Petroleum Products	19.1
46	Water	18.4
24	Chemicals	17.8
64	Lodging	17.2
32	Machinery	17.0
22	Paper Products	16.5
69	Education Services	15.4
68	Medical Services	15.3
48	Wholesale Groceries	14.7
7	Oil and Gas Field Services	14.6
21	Furniture and Fixtures	14.5
12	Dairies	14.4
14	Bakery Products	14.0
35	All Other Manufacturing	13.3
15	Processed Food and Kindred Products	13.2
8	All Other Mining	12.9
66	All Other Business Services	12.9
28	Cement and Concrete Products	12.9

Table 12 Continued

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Sector Number	Sector Name	Percent
58	Eating and Drinking Places	12.7
55	Department Stores and Variety Stores	12.7
53	Automobile and Tractor Dealers	12.3
31	Machined Metal Products	11.6
34	Transportation Equipment	11.3
65	Personal	10.8
16	Beverages	10.5
13	Grain Products	10.1
59	All Other Retail	10.0
56	Food Stores	9.4
63	Legal Services	7.9
23	Printing and Publishing	7.9
29	Metal Smelting and Casting	7.3
67	Repair Service	7.3
25	Petroleum Products	7.2
44	Gas	7.0
5	Fisheries	6.7
51	General Wholesale	6.0
4	Forestry	5.6
70	Bookkeeping Services	5.6
60	Banking and Credit Agencies	5.6
17	Textile Products and Apparel	5.5
47	Wholesale Equipment and Supplies	5.3
33	Electrical Apparatus	4.9
52	Lumberyards	3.3
42	Telephone and Telegraph	1.6
39	Air Transportation	1.5

Table 13 Percent of Sales to Other Processing Sectors Within the Region--Southeast Region; Texas 1967

41

Sector Number	Sector Name	Percent
18	Logging	100.0
7	Oil and Gas Field Services	100.0
3	Agricultural Supply and Services	100.0
49	Wholesale Farm Products	99.9
27	Glass, Clay and Stone Products	96.5
41	All Other Transportation	95.0
20	Millwork	92.0
43	Radio and TV	91.2
37	Motor Transportation	90.0
67	Repair Services	78.7
33	Electrical Apparatus	78.1
42	Telephone and Telegraph	76.7
39	Air Transportation	76.1
70	Bookkeeping Services	76.0
21	Furniture and Fixtures	75.0
66	Other Business Services	74.9
6	Crude Petroleum and Natural Gas	69.0
47	Wholesale Equipment and Supplies	67.7
12	Dairies	66.5
5	Fisheries	63.2
57	Gasoline Service Stations	61.2
23	Printing and Publishing	60.4
28	Cement and Concrete Products	58.9
13	Grain Products	57.5
16	Beverages	56.0
62	F.I.R.E. Not Elsewhere Classified	54.4
46	Water	51.8
61	Insurance Carriers	50.2
63	Legal Services	49.5
17	Textile Products and Apparel	49.5
1	Crop Production	49.0
29	Metal Smelting and Casting	46.8
19	Lumber Mills	46.3
15	Processed Food and Kindred Products	45.5
51	General Wholesale	44.6
54	Hardware and Home Furnishings	37.0
32	Machinery	35.5
14	Bakery Products	34.7
60	Banking and Credit Agencies	30.9
44	Gas	30.3
2	Animal and Poultry Production	29.3
9	Residential, Commercial and Industrial Const.	25.7
4	Forestry	25.5
48	Wholesale Groceries	24.7

Table 13 Continued

42

Sector Number	Sector Name	Percent
53	Automobile and Tractor Dealers	24.5
24	Chemicals	24.3
65	Personal	23.6
71	All Other Services	20.5
31	Machined Metal Products	20.4
50	Wholesale Petroleum Products	19.9
38	Water Transportation	19.8
35	All Other Manufacturing	17.8
52	Lumberyards	17.1
22	Paper Products	16.1
36	Railroad Transportation	15.0
26	Rubber, Plastic and Leather Products	13.5
11	Meat and Poultry Products	9.7
30	Fabricated Metal Products	7.4
8	All Other Mining	6.7
45	Electricity	5.6
34	Transportation Equipment	4.6
68	Medical	3.9
64	Lodging	3.3
10	Facility Construction	2.4
58	Eating and Drinking Places	2.2
55	Department Stores and Variety Stores	1.5
25	Petroleum Products	1.3
59	All Other Retail	0.9
69	Education Services	0.1
56	Food Stores	0.1
40	Pipeline Transportation	0.1

advancement. By determining the types of establishments that are purchasing the locally produced output, it will be possible to institute an industrial development program aimed at the industries which are known to depend on the region for their inputs. By concentrating on industries of this type, an industrial development program should be more successful than one which seeks industries without existing ties to the region.

Although households represent an exogenous sector in the input-output model, payments made to it by the endogenous or processing sectors do not have the same weakening effect on the economy as a payment to imports. In the case of households, payments are made to resource owners within the region. These resource owners will use the greatest part of their incomes to purchase goods and services from regional establishments. Their money will be recycled back to the processing sectors. In the case of inputs, however, out-of-region recipients will make these payments in their home region.

Payments to the households sector as a percentage of total input expenditure ranged from a high of 87.3 percent for fisheries to a low of 2.1 percent for petroleum products. Also, households accounted for over 50 percent of the total input expenditures for seventeen processing sectors.

Because of the importance of petroleum and petro-chemical manufacturing to the region, it is interesting to note that only 2.1 percent of the total expenditures of the producers of petroleum products were paid to households. Producers of chemicals paid only a slightly greater percentage of their total expenditures to households--3.1 percent. It will be remembered from the previous chapter that producers of chemicals and petroleum products purchased only 17.8 and 7.2 percent of their respective inputs from processing sectors within the region. The amount paid to households does not substantially reduce the expenditure leakage from the local economy.

## VI. THE EXOGENOUS SECTORS

### A. Final Payments

Final payments represent purchases of the processing sectors in Southeast Texas for goods and services not produced by other industries within the region. The six final payments sectors used in this model include: (1) Households (Sector 72); (2) Federal Government (Sector 73); (3) State Government (Sector 74); (4) Local Government (Sector 75); (5) Imports (Sector 76); and (6) Gross Savings (Sector 77).

#### Households

The primary function of the "households" is that of supplying labor and management services inputs to the processing sectors. (See Table 14.) The money paid to households, therefore, may be thought of roughly as

Table 14 Purchased from Households Ranked as a Percent of All Inputs--  
Southeast Region; Texas 1957

Sector Number	Sector Name	Percent
5	Fisheries	87.3
39	Air Transportation	85.2
4	Forestry	78.8
60	Banking and Credit Agencies	69.8
8	All Other Mining	68.0
48	Wholesale Groceries	67.7
70	Bookkeeping Services	60.8
7	Oil and Gas Field Services	60.6
51	General Wholesale	58.4
33	Electrical Apparatus	57.1
21	Furniture and Fixtures	56.3
52	Lumberyards	55.6
57	Gasoline Service Stations	54.5
63	Legal Services	51.8
61	Insurance Carriers	51.7
6	Crude Petroleum and Natural Gas	51.5
36	Railroad Transportation	51.4
59	All Other Retail	50.2
17	Textile Products and Apparel	49.8
69	Education Services	49.5
49	Wholesale Farm Products	49.2
43	Radio and TV	48.7
10	Facility Construction	48.4
54	Hardware and Home Furnishings	47.3
68	Medical Services	46.5
53	Automobile and Tractor Dealers	45.2
55	Department Stores and Variety Stores	45.0
64	Lodging	44.8
47	Wholesale Equipment and Supplies	44.0
50	Wholesale Petroleum Products	43.5
58	Eating and Drinking Places	41.9
56	Food Stores	39.3
67	Repair Service	37.1
40	Pipeline Transportation	36.5
46	Water	36.1
3	Agricultural Supply and Services	34.0
41	All Other Transportation	31.6
37	Motor Transportation	31.4
65	Personal	31.3
66	All Other Business Services	29.3
9	Residential, Commercial and Industrial Const.	28.2
16	Beverages	27.8
30	Fabricated Metal Products	27.3
23	Printing and Publishing	25.6

Table 14 Continued

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Sector Number	Sector Name	Percent
29	Metal Smelting and Casting	25.3
32	Machinery	24.9
42	Telephone and Telegraph	24.9
71	All Other Services	21.4
19	Lumber Mills	20.4
14	Bakery Products	20.0
31	Machined Metal Products	19.3
1	Crop Production	18.7
12	Dairies	18.6
26	Rubber, Plactic and Leather	18.1
34	Transportation Equipment	16.6
35	All Other Manufacturing	16.3
15	Processed Food and Kindred Products	16.0
44	Gas	15.4
62	F.I.R.E. Not Elsewhere Classified	15.3
20	Millwork	15.2
27	Glass, Clay and Stone Products	15.0
38	Water Transportation	14.9
22	Paper Products	12.0
13	Grain Products	11.9
28	Cement and Concrete Products	11.0
18	Logging	10.7
2	Animal and Poultry Production	9.4
45	Electricity	8.8
11	Meat and Poultry Products	8.2
24	Chemicals	3.1
25	Petroleum Products	2.1

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wages and salaries.<sup>17</sup>

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### Government

Tax payments to governments are a cost of doing business. They represent, although not on a strict quid pro quo basis, the price that must be paid for such governmental services as roads for transportation, education, regulation, police and fire protection. The payments are primarily taxes, but also include fees, payments in lieu of taxes and other remunerations to governmental units. As shown in Table 15, tax payments by furniture stores (26.1 percent), eating places (24.2 percent), telephone and telegraph (23.6 percent), food stores (24.3 percent), and electrical utilities (20.7 percent) were in excess of 20 percent of all input costs. In each case, the Federal government was the chief recipient of tax revenues. In fact, as a general rule, all sectors of the economy of Southeast Texas paid more taxes to the Federal government than to State and local governments. Notable exceptions to this general rule included forestry and insurance. Forestry, with taxes comprising 12.9 percent of its total input purchases paid 12.2 percent to local governments, 0.6 percent to state government and 0.2 percent to the Federal government. Insurance, in turn, paid taxes equaling 12.5 percent of its total input purchases. Of this amount, 0.7 percent went to local governments, 3.8 percent went to state government.

### Gross Savings

Essentially gross savings includes depreciation and retained earnings and did not generally include a great percentage of a sector's total purchases. Only in the case of pipeline transportation (Sector 39) did gross savings exceed 20 percent of total expenditures. Additionally, as shown in Table 16, only ten processing sectors were found to have gross savings greater than 10 percent of total expenditures. On the other hand, 52 of the 71 regional sectors--73.2 percent--had gross savings of less than 5 percent of total expenditures. For most sectors, the estimated amount of capital consumed during the production process is a relatively minor portion of total resources used.

### Imports

The last Final Payments sector to be discussed is imports. Any economic analysis of a small geographical area will indicate that the area is greatly dependent on imports. This dependency emanates not only from consumers who desire a wider range of goods and services than is being produced within the region, but also from businesses who need inputs which are not available within the region.

If one wishes to institute an efficient program of industrial development, it is necessary to determine the resource needs of existing industries and discover to what extent these needs are satisfied by other local industries. In those areas where there is a demand for inputs which are not being produced locally, officials would have a strong

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<sup>17</sup>In addition to wages and salaries, interests, profits and rent are in this final payments row.



Table 15 Purchases from Government Ranked as a Percent of All Inputs--  
Southeast Region; Texas 1967

47

Sector Number	Sector Name	Percent
21	Furniture and Fixtures	26.1
56	Food Stores	24.3
58	Eating and Drinking Places	24.2
42	Telephone and Telegraph	23.5
45	Electricity	20.7
44	Gas	19.1
40	Pipeline Transportation	16.9
59	All Other Retail	16.4
51	General Wholesale	16.0
62	F.I.R.E. Not Elsewhere Classified	15.4
71	All Other Services	13.4
57	Gasoline Service Stations	13.2
4	Forestry	13.0
6	Crude Petroleum and Natural Gas	12.7
32	Machinery	12.5
61	Insurance Carriers	12.5
38	Water Transportation	10.6
29	Metal Smelting and Casting	9.9
8	All Other Mining	9.6
19	Lumber Mills	8.8
16	Beverages	8.7
52	Lumberyards	8.1
36	Railroad Transportation	7.9
50	Wholesale Petroleum Products	7.7
48	Wholesale Groceries	7.6
37	Motor Transportation	7.4
2	Animal and Poultry Production	7.3
1	Crop Production	6.0
63	Legal Services	5.8
30	Fabricated Metal Products	5.8
26	Rubber, Plastic and Leather	5.5
31	Machined Metal Products	5.5
55	Department Stores and Variety Stores	5.5
17	Textile Products and Apparel	5.5
49	Wholesale Farm Products	5.3
41	All Other Transportation	5.2
13	Grain Products	5.1
66	All Other Business Services	5.1
60	Banking and Credit Agencies	4.8
53	Automobile and Tractor Dealers	4.6
64	Lodging	4.4
54	Hardware and Home Furnishings	4.3

Table 15 Continued

48

Sector Number	Sector Name	Percent
70	Bookkeeping Services	4.2
65	Personal	4.1
7	Oil and Gas Field Services	3.9
33	Electrical Apparatus	3.9
10	Facility Construction	3.8
14	Bakery Products	3.8
23	Printing and Publishing	3.7
47	Wholesale Equipment and Supplies	3.7
35	All Other Manufacturing	3.6
20	Millwork	3.5
39	Air Transportation	3.4
43	Radio and T.V.	2.9
18	Logging	2.8
3	Agricultural Supply and Services	2.5
67	Repair Service	2.3
34	Transportation Equipment	2.2
27	Glass, Clay and Stone Products	2.0
28	Cement and Concrete Products	1.9
12	Dairies	1.8
68	Medical Services	1.3
15	Processed Food and Kindred Products	1.3
22	Paper Products	1.2
69	Education Services	1.1
24	Chemicals	1.0
11	Meat and Poultry Products	.9
25	Petroleum Products	.9
9	Residential, Commercial and Industrial	.7
5	Fisheries	.7
46	Water	.4

Table 16 Purchases from Gross Savings Ranked as a Percent of All Inputs --  
Southeast Region, Texas 1967

49

Sector Number	Sector Name	Percent
40	Pipeline Transportation	21.3
46	Water	15.6
42	Telephone & Telegraph	15.2
44	Gas	14.8
16	Beverages	14.0
1	Crop Production	12.7
65	Personal	12.6
69	Education Services	12.1
62	F.I.R.E. Not Elsewhere Classified	11.7
37	Motor Transportation	10.1
2	Animal & Poultry Production	9.8
51	General Wholesale	8.0
36	Railroad Transportation	7.4
64	Lodging	6.9
43	Radio & TV	6.9
50	Wholesale Petroleum Products	6.4
49	Wholesale Farm Products	6.3
18	Logging	5.4
60	Banking & Credit Agencies	5.0
7	Oil & Gas Field Services	4.2
12	Dairies	4.1
20	Millwork	4.1
13	Grain Products	4.0
27	Glass, Clay & Stone Products	4.0
6	Crude Petroleum & Natural Gas	3.8
30	Fabricated Metal Products	3.7
14	Bakery Products	3.5
67	Repair Service	3.3
29	Metal Smelting & Casting	3.1
53	Automobile & Tractor Dealers	3.1
59	All Other Retail	3.1
24	Chemicals	3.0
38	Water Transportation	3.0
48	Wholesale Groceries	2.9
28	Cement & Concrete Products	2.8
31	Machined Metal Products	2.8
52	Lumberyards	2.6
8	All Other Mining	2.4
25	Petroleum Products	2.4
26	Rubber, Plastic & Leather	2.2
32	Machinery	2.1
55	Department Stores & Variety Stores	2.0
23	Printing & Publishing	1.9

Table 16 Continued

50

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Sector Number	Sector Name	Percent
66	All Other Business Services	1.9
3	Agricultural Supply & Services	1.9
10	Facility Construction	1.8
35	All Other Manufacturing	1.7
33	Electrical Apparatus	1.6
70	Bookkeeping Services	1.4
5	Fisheries	1.2
17	Textile Products & Apparel	1.2
45	Electricity	1.0
19	Lumber Mills	.98
47	Wholesale Equipment & Supplies	.94
41	All Other Transportation	.91
54	Hardware & Home Furnishings	.82
15	Processed Food & Kindred Products	.81
34	Transportation Equipment	.58
9	Residential, Commercial & Industrial	.55
11	Meat & Poultry Products	.38
39	Air Transportation	.26
56	Food Stores	.25
58	Eating & Drinking Places	.25
4	Forestry	.15

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selling point--a significant local market for the product being considered--in negotiating relocations of existing establishments or starting new ones.

For fourteen of the processing sectors, imports accounted for over 50 percent of total expenditures (Table 17). Of these fifteen sectors, imports only one was in excess of 80 percent of total expenditures; imports for three exceeded 70 percent; imports for six exceeded 60 percent and imports for the remaining five exceeded 50 percent. If the inputs imported by these sectors could be produced and sold by regional rather than out-of-region establishments, Southeast Texas would experience an increase in economic activity which would substantially reduce the rate of unemployment, provide tax revenues to support higher levels of governmental services, and in general, benefit the entire population of the region.

#### B. Final Demand

In a regional economy, local industries sell their output in a market consisting of other local industries and in a market consisting of buyers other than local industries. The former market is an intermediate goods market since the product traded is used as an input in another local industry's production function. In the latter market, the good traded does not return to the production process of an industry within the region. The transaction, then, is a final sale by the region's processing sectors. In the terminology of input-output analysis, this type of sale is said to take place in a "final demand" market.

For the purpose of this study, the final demand market has been divided into the following classifications: (1) Households (Sector 72); (2) Federal Government (Sector 73); (3) State Government (Sector 74); (4) Local Government (Sector 75); (5) Exports (Sector 76); (6) Inventory Change (Sector 77); and (7) Capital Investment (Sector 78). The estimated percent of sales each sector delivers to final demand is presented in Table 18.

#### Households

The importance of households as a market for goods and services produced in the Southeast Texas Region is indicated in Table 19. This table ranks processing sectors by the relative amount of their sales to households. As data in the table demonstrate, sectors most dependent on households as customers are found in the areas of trades and services. Of the seven highest ranked sectors, for example, five are retail trades sectors and two are service sectors. Food stores rely most heavily on households with approximately 79.5 percent of its output being sold to this sector. In addition to food stores, eating and drinking places, department, clothing and variety stores and medical services receive over 79 percent of their income from households.

#### Government

Whether governmental units are viewed individually or collectively, their overall significance as purchasers of goods and services produced

Table 17 Purchases of Imports Ranked as a Percent of All Inputs--  
Southeast Region; Texas 1967

Sector Number	Sector Name	Percent
25	Petroleum Products	67.3
24	Chemicals	75.0
28	Cement and Concrete Products	71.4
22	Paper Products	70.1
34	Transportation Equipment	69.3
13	Grain Products	68.9
35	All Other Manufacturing	65.0
15	Processed Food and Kindred Products	63.6
12	Dairies	61.0
31	Machined Metal Products	60.6
23	Printing and Publishing	59.8
14	Bakery Products	58.6
29	Metal Smelting and Casting	54.3
32	Machinery	53.4
67	Repair Service	50.2
66	All Other Business Service	49.7
26	Rubber, Plastic and Leather	49.3
41	All Other Transportation	48.8
45	Electricity	48.4
19	Lumber Mills	47.0
47	Wholesale Equipment and Supplies	46.0
27	Glass, Clay and Stone Products	44.7
30	Fabricated Metal Products	43.6
44	Gas	43.1
65	Personal	41.1
17	Textile Products and Apparel	37.8
16	Beverages	36.3
53	Automobile and Tractor Dealers	35.9
55	Department Stores and Variety Stores	34.8
42	Telephone and Telegraph	34.7
63	Legal Services	34.5
33	Electrical Apparatus	32.3
52	Lumberyards	29.8
46	Water	29.4
37	Motor Transportation	28.8
70	Bookkeeping Services	27.9
64	Lodging	26.6
20	Millwork	25.6
3	Agricultural Supply and Services	24.4
21	Furniture and Fixtures	24.0
54	Hardware and Home Furnishings	23.4
56	Food Stores	23.2
68	Medical Services	22.2
69	Education Services	21.7

Sector Number	Sector Name	Percent
58	Eating and Drinking Places	20.9
59	All Other Retail	20.2
10	Facility Construction	20.2
9	Residential, Commercial and Industrial Const.	19.1
49	Wholesale Farm Products	19.0
11	Meat and Poultry Products	19.0
7	Oil and Gas Field Services	16.8
18	Logging	16.4
71	All Other Services	15.9
61	Insurance Carriers	15.2
60	Banking and Credit Agencies	14.7
50	Wholesale Petroleum Products	13.2
38	Water Transportation	12.6
57	Gasoline Service Stations	12.1
51	General Wholesale	11.4
2	Animal and Poultry Production	11.2
62	F.I.R.E. Not Elsewhere Classified	10.5
39	Air Transportation	10.3
6	Crude Petroleum and Natural Gas	10.2
36	Railroad Transportation	7.8
8	All Other Mining	7.0
43	Radio and TV	6.7
40	Pipeline Transportation	5.5
5	Fisheries	3.9
48	Wholesale Groceries	3.5
4	Forestry	2.4
1	Crop Production	2.0

Table 18 Sales to Final Demand as a Percent of Total Sales--Southeast Region; Texas 1967

Sector Number	Sector Name	Percent
56	Food Stores	100.0
69	Education Services	99.9
40	Pipeline Transportation	99.9
59	All Other Retail	99.0
25	Petroleum Products	98.8
55	Department Stores and Variety Stores	98.5
16	Beverages	97.9
58	Eating and Drinking Places	97.8
10	Facility Construction	97.6
64	Lodging	96.6
68	Medical Services	96.0
34	Transportation Equipment	95.6
45	Electricity	94.5
30	Fabricated Metal Products	93.8
8	All Other Mining	93.4
11	Meat and Poultry Products	90.2
26	Rubber, Plastic and Leather	86.6
36	Railroad Transportation	85.2
22	Paper Products	84.1
36	Railroad Transportation	85.2
22	Paper Products	84.1
52	Lumberyards	81.9
35	All Other Manufacturing	81.3
38	Water Transportation	80.2
50	Wholesale Petroleum Products	80.0
5	Fisheries	77.7
65	Personal	77.1
3	Agricultural Supply and Services	76.9
71	All Other Services	75.9
24	Chemicals	75.7
53	Automobile and Tractor Dealers	75.6
48	Wholesale Groceries	75.3
9	Residential, Commercial and Industrial Const.	74.3
2	Animal and Poultry Production	70.7
31	Machined Metal Products	69.7
44	Gas	69.7
60	Banking and Credit Agencies	69.1
14	Bakery Products	65.3
32	Machinery	65.3
54	Hardware and Home Furnishings	62.3
15	Processed Food and Kindred Products	56.8
51	General Wholesale	55.4
18	Logging	54.1
19	Lumber Mills	53.6



Table 18 Continued

Sector Number	Sector Name	Percent
1	Crop Production	51.0
63	Legal Services	50.6
61	Insurance Carriers	49.7
46	Water	48.1
62	F.I.R.E. Not Elsewhere Classified	46.2
13	Grain Products	42.5
28	Cement and Concrete Products	41.0
23	Printing and Publishing	39.7
17	Textile Products and Apparel	39.2
29	Metal Smelting and Casting	38.6
66	All Other Business Services	37.4
4	Forestry	36.7
57	Gasoline Service Stations	34.8
12	Dairies	33.5
47	Wholesale Equipment and Supplies	31.4
6	Crude Petroleum and Natural Gas	31.0
21	Furniture and Fixtures	25.1
39	Air Transportation	24.0
70	Bookkeeping Services	23.5
42	Telephone and Telegraph	23.3
67	Repair Service	19.7
33	Electrical Apparatus	16.8
37	Motor Transportation	10.0
43	Radio and TV	8.8
20	Millwork	8.1
41	All Other Transportation	5.4
27	Glass, Clay and Stone Products	3.5
49	Wholesale Farm Products	0.1
7	Oil and Gas Field Services	0.0

Table 19 Sales to Households Ranked as a Percent of Total Sales--Southeast Region; Texas 1967

Sector Number	Sector Name	Percent
56	Food Stores	79.5
58	Eating & Drinking Places	77.7
55	Department Stores & Variety Stores	77.6
68	Medical Services	76.4
65	Personal	61.3
54	Hardware & Home Furnishings	60.7
53	Automobile & Tractor Dealers	59.4
50	Wholesale Petroleum Products	54.6
71	All Other Services	51.6
62	F.I.R.E. Not Elsewhere Classified	39.7
61	Insurance Carriers	35.5
59	All Other Retail	29.3
46	Water	28.0
57	Gasoline Service Stations	24.1
69	Education Services	19.1
70	Bookkeeping Services	19.0
42	Telephone & Telegraph	17.4
60	Banking & Credit Agencies	15.0
67	Repair Service	13.4
52	Lumberyards	13.0
47	Wholesale Equipment & Supplies	9.2
39	Air Transportation	8.5
34	Transportation Equipment	6.0
37	Motor Transportation	5.2
64	Lodging	4.5
41	All Other Transportation	4.3
66	All Other Business Services	3.5
35	All Other Manufacturing	1.8
45	Electricity	1.7
44	Gas	1.6
36	Railroad Transportation	1.2
	All others less than 1.0%	

in the region is slight. As is indicated in Table 20, local governmental units are the chief governmental purchasers. Following the local units of government in order of importance is Texas State government and the Federal government.

There are, of course, exceptions to the generalities stated above. The most obvious "special case" is found in education service, where local governments purchase 41.2 percent, Texas State government purchases 35.8 percent and the Federal government purchases 8.1 percent of the total.

### Exports

Exports--sales to out-of-region purchasers--is the most important single component of the final demand sectors. All industries with the exception of agricultural supply and services (Sector 3) and oil and gas field services (Sector 7) indicated that a portion of their sales were made to non-Southeast Texas residents. Pipeline transportation (Sector 40) exhibited the greatest dependency on exports with approximately 99.9 percent of all sales being attributed to this source. Table 21 demonstrates that in addition to pipeline transportation, four other industries relied on the export market for over 90 percent of their sales. Of the seventy-one regional sectors, twenty-five sell more than 50 percent of their output out of the region. Including the two sectors with zero exports, nineteen industries of Southeast Texas export less than 10 percent of their output.

As was true in the case of imports, the export sector contains valuable information for those who are interested in economic growth for the area. To the extent that regional exports are sold as intermediate goods to producers in other regions, the local economy is deprived of a potential source of employment income and wealth. By investigating the type of purchasers of regional exports, officials may gain some new insight as to the types of businesses with the greatest potential to succeed in the local economy.

## VII. ECONOMIC IMPACT

It was demonstrated that changes in the output of one industry would affect other industries to a greater or lesser degree throughout an entire economic system. The greater the interdependencies among processing sectors, the more significant will be the repercussions. In the general input-output framework, the function of the direct plus indirect requirements table is to measure the impact of a change in final demand on all industries. For example, Table 22 reproduces the first five entries in column one (crop production) of the direct plus indirect requirements matrix for Southeast Texas. If final demand for crop production increased by \$200,000, the determination of the total impact may be explained with the aid of Table 19. In order for the producers of crop products to meet this increase in demand for their product, they must purchase larger quantities of inputs from their suppliers. These suppliers, in turn, will have to purchase more inputs from their suppliers to meet the increased demand of crop producers. To the extent that the suppliers of crop producers utilize crops as inputs in their production process, crop producers

Table 20 Sales to Government Ranked as a Percent of Total Sales--South-east Region; Texas 1967

Sector Number	Sector Name	Percent
69	Education Services	85.0
62	F.I.R.E. Not Elsewhere Classified	43.8
71	All Other Services	31.5
10	Facility Construction	26.8
60	Banking & Credit Agencies	17.7
33	Electrical Apparatus	14.8
39	Air Transportation	13.2
17	Textile Products & Apparel	11.7
29	Metal Smelting & Casting	9.4
21	Furniture & Fixtures	8.2
32	Machinery	5.8
23	Printing & Publishing	5.0
46	Water	4.2
57	Gasoline Service Stations	4.2
37	Motor Transportation	3.4
9	Residential, Commercial & Industrial	3.0
15	Processed Food & Kindred Products	2.9
27	Glass, Clay & Stone Products	2.0
26	Rubber, Plastic & Leather	1.3
35	All Other Manufacturing	1.3
42	Telephone & Telegraph	1.3
54	Hardware & Home Furnishings	1.1
51	General Wholesale	1.0
	All others less than 1.0%	

Table 21 Exports as a Percent of Total Sales--Southeast Region;  
Texas 1967

Sector Number	Sector Name	Percent
40	Pipeline Transportation	99.9
30	Fabricated Metal Products	93.0
8	All Other Mining	92.8
45	Electricity	92.7
64	Lodging	91.9
26	Rubber, Plastic and Leather	84.9
25	Petroleum Products	83.8
36	Railroad Transportation	83.7
38	Water Transportation	80.2
22	Paper Products	80.0
11	Meat and Poultry Products	79.8
35	All Other Manufacturing	77.8
5	Fisheries	77.5
3	Agricultural Supply and Services	76.9
48	Wholesale Groceries	75.3
24	Chemicals	73.0
2	Animal and Poultry Production	70.7
59	All Other Retail	69.7
52	Lumberyards	68.9
44	Gas	68.1
34	Transportation Equipment	64.6
16	Beverages	59.9
51	General Wholesale	54.1
18	Logging	54.1
32	Machinery	52.5
19	Lumber Mills	51.1
1	Crop Production	50.9
13	Grain Products	42.5
4	Forestry	36.6
60	Banking and Credit Agencies	36.3
66	All Other Business Services	33.3
6	Crude Petroleum and Natural Gas	31.0
29	Metal Smelting and Casting	29.1
15	Processed Food and Kindred Products	25.5
50	Wholesale Petroleum Products	25.2
71	All Other Services	24.3
47	Wholesale Equipment and Supplies	23.0
55	Department Stores and Variety Stores	20.9
56	Food Stores	20.5
58	Eating and Drinking Places	20.0
68	Medical Services	19.6
12	Dairies	17.4
9	Residential, Commercial and Industrial Const.	16.6
46	Water	15.8

Table 21 Continued

Sector Number	Sector Name	Percent
65	Personal	15.8
31	Machined Metal Products	15.3
53	Automobile and Tractor Dealers	15.3
23	Printing and Publishing	15.0
61	Insurance Carriers	13.9
17	Textile Products and Apparel	13.7
63	Legal Services	10.3
43	Radio and TV	8.8
10	Facility Construction	8.7
20	Millwork	7.5
57	Gasoline Service Stations	6.4
42	Telephone and Telegraph	4.5
70	Bookkeeping Services	4.4
21	Furniture and Fixtures	4.1
67	Repair Service	3.6
69	Education Services	3.5
62	F.I.R.E. Not Elsewhere Classified	2.4
39	Air Transportation	2.2
14	Bakery Products	1.7
27	Glass, Clay and Stone Products	1.4
28	Cement and Concrete Products	1.4
37	Motor Transportation	1.4
33	Electrical Apparatus	1.2
41	All Other Transportation	1.1
53	Automobile and Tractor Dealers	0.5
49	Wholesale Farm Products	0.1
7	Oil and Gas Field Services	0.0

Table 22 Selected Interdependence Coefficients--Southeast Region;  
Texas 1967

Purchasing Sectors	Selling Sectors	1 Crop Production
1	Crop Production	1.035334
2	Animal Production	.000013
3	Agricultural Services	.193261
4	Forestry	.000457
5	Fisheries	.000008

Source: Appendix D .

will experience an additional increase in demand for their product and will have to increase their input purchases to satisfy the increase in demand. This cycle will continue in successively damped rounds, requiring a change in output greater than the initial \$200,000 increase. From Table 19 it is seen that the direct plus indirect requirements from crop production which are necessary to satisfy a \$1 increase in final demand for farm crops are equal to 1.035334. Therefore, the total impact on crop production from a \$200,000 increase in final demand for farm crops is \$207,067 ( $\$200,000 \times 1.035334$ ). For animal production, the impact is \$2.60 ( $\$200,000 \times 0.000013$ ). By continuing the multiplication process for the remaining sectors, it is possible to obtain the dollar impact on each industry in the economy which results from the initial \$200,000 increase in final demand for farm crops.

If one wishes to determine the impact on total output which results from a change in the demand for the output of a particular sector rather than the impact on individual industries, it is only necessary to sum the interdependence coefficients which appear as column entries for the sector in the direct plus indirect requirements matrix. Once again, using crop production as a reference, the sum of interdependence coefficients (from the table of Appendix ) is equal to 1.788585.

Final demand multipliers for each processing sector are presented in Table 23. Those industries which rely most heavily on inputs produced within this region are identified by high final demand multipliers. Those industries which are least dependent on locally produced inputs have correspondingly low multipliers. It should be noted that the final demand multipliers do not infer anything concerning the actual dollar value that each industry contributes to the local economy. They indicate the amount by which a given change in an industry's output will be magnified.

To demonstrate this, a comparison between producers of petroleum products and meat products can be made. The dependence of meat producers for inputs from other regional establishments is shown in Table 12. It was revealed that meat producers purchased an estimated 71.5 percent of all of their input from within the region. The same table, on the other hand, shows that the producers of petroleum products purchased only 7.2 percent of their inputs from establishments within the region. The dependency for inputs of producers of meat products from other establishments within the region yields a greater final demand multiplier for that sector than for petroleum products. In the former case, the multiplier is 2.260879 and in the latter it is 1.088583.

If final demand for the products of both sectors increased by \$500,000, the dollar value of the increase in economic activity associated with meat production would be \$1,130,439.50, whereas that associated with petroleum products would be \$544,291.50. The total impact of meat production on the regional economy, then would be over twice as great.

On the basis of this example, would it be better for regional economic planners to actively recruit new meat production establishments for the area or expand resources to develop the portions of the economy associated with petroleum products? At first glance it seems that the most advantageous choice would be to promote the growth of meat production in



Table 23 Final Demand Multipliers--Southeast Region; Texas 1967

Sector Number	Sector Name	Percent
1	Crop Production	1.78
2	Animal and Poultry Production	1.78
3	Agricultural Supply and Services	1.45
4	Forestry	1.07
5	Fisheries	1.07
6	Crude Petroleum and Natural Gas	1.25
7	Oil and Gas Field Services	1.16
8	All Other Mining	1.14
9	Residential, Commercial and Industrial Const.	1.69
10	Facility Construction	1.32
11	Meat and Poultry Products	2.26
12	Dairies	1.16
13	Grain Products	1.13
14	Bakery Products	1.18
15	Processed Food and Kindred Products	1.21
16	Beverages	1.13
17	Textile Products and Apparel	1.06
18	Logging	1.70
19	Lumber Mills	1.29
20	Millwork	1.72
21	Furniture and Fixtures	1.79
22	Paper Products	1.21
23	Printing and Publishing	1.10
24	Chemicals	1.22
25	Petroleum Products	1.08
26	Rubber, Plastic and Leather	1.30
27	Glass, Clay and Stone Products	1.39
28	Cement and Concrete Products	1.15
29	Metal Smelting and Casting	1.08
30	Fabricated Metal Products	1.21
31	Machined Metal Products	1.13
32	Machinery	1.19
33	Electrical Apparatus	1.05
34	Transportation Equipment	1.12
35	All Other Manufacturing	1.16
36	Railroad Transportation	1.34
37	Motor Transportation	1.25
38	Water Transportation	1.67
39	Air Transportation	1.00
40	Pipeline Transportation	1.25
41	All Other Transportation	1.15
42	Telephone and Telegraph	1.02
43	Radio and TV	1.39
44	Gas	1.08

Table 23 Continued

Sector Number	Sector Name	Percent
45	Electricity	1.23
46	Water	1.23
47	Wholesale Equipment and Supplies	1.06
48	Wholesale Groceries	1.21
49	Wholesale Farm Products	1.26
50	Wholesale Petroleum Products	1.39
51	General Wholesale	1.07
52	Lumberyards	1.04
53	Automobile and Tractor Dealers	1.13
54	Hardware and Home Furnishings	1.30
55	Department Stores and Variety Stores	1.15
56	Food Stores	1.14
57	Gasoline Service Stations	1.26
58	Eating and Drinking Places	1.14
59	All Other Retail	1.12
60	Banking and Credit Agencies	1.06
61	Insurance Carriers	1.24
62	F.I.R.E. Not Elsewhere Classified	1.58
63	Legal Services	1.09
64	Lodging	1.21
65	Personal	1.12
66	All Other Business Services	1.16
67	Repair Service	1.07
68	Medical Services	1.38
69	Education Services	1.20
70	Bookkeeping Services	1.06
71	All Other Services	1.61

order to take advantage of its final demand multiplier. A closer look, however, might suggest the opposite choice. The low final demand multiplier of petroleum products is due to the small degree of intraregional interdependence. If economic planners could successfully implement a program to relocate existing suppliers of the petroleum products sector or to encourage the establishment of new enterprises to supply inputs to this industry, the degree of intraregional dependency of the petroleum products industry would increase. Correspondingly, there would be an increase in the final demand multiplier for this industry. Assuming that demand for the output of petroleum products is more responsive to changes in income and population than the demand for meat products and that the long-run trend of economic activity is upward, the long-term benefits of stimulating the growth of establishments which supply inputs to the petroleum products industry would be greater than the benefits which are associated with a growth in meat production.

Appendix A  
Mathematical Concepts for an Input-Output Model

The purpose of this appendix is to present the input-output model in a general mathematical framework. Following the arithmetic example in Chapter 1, it is hoped that the present treatment will extend and give greater understanding to the previous discussion.

The structural relationships that exist in an economy may be described by the following equation:

$$(1.1) \quad X_i = x_{i1} + x_{i2} + \dots + x_{in} + Y_i \quad [(i = 1 \dots n)]$$

where  $X_i$  is the total output of sector  $i$ ,  $x_{i1}$ ,  $x_{i2}$ ,  $\dots$ ,  $x_{in}$  are, respectively the output from sector  $i$  which are used as inputs for sectors 1, 2,  $\dots$ ,  $n$ ;

$Y_i$  is the quantity of output from sector  $i$  which is consumed by final demand; and

$n$  is the number of processing sectors in the economy.

Under the assumption that the demand for the output of one processing sector by another is a function of the level of production of the latter, i.e.,  $a_{i1} = \frac{x_{i1}}{X_1}$ , (1.1) may be written as:

$$(1.2) \quad X_i = a_{i1} X_1 + a_{i2} X_2 + \dots + a_{in} X_n + Y_i$$

Where:  $X_i$  is the same as in 1.1;

$a_{i1}$ ,  $a_{i2}$ ,  $\dots$ ,  $a_{in}$  are, respectively, the dollar amount of sector  $i$  sales to sectors 1, 2,  $\dots$ ,  $n$ , per dollar of output from these sectors;

$X_1$ ,  $X_2$ ,  $\dots$ ,  $X_n$  are the levels of output of sectors 1, 2,  $\dots$ ,  $n$ ; and  $Y_i$  is the same as in 1.1.

Now, the general form of the input-output model may be written in matrix algebra as:

$$(1.3) \quad X = AX + Y$$

Where:  $X$  is the output vector,

$A$  is the  $N \times N$  matrix of coefficients  $a_{ij}$  ( $a_{ij}$  shows the dollar amount of good  $i$  required to produce one dollar of good  $j$ , and

$Y$  is the vector of final demands.

The solution of this matrix is as follows:

$$X - AX = Y$$

$$[I-A] X = Y$$

$$X = [I-A]^{-1}Y$$

Where I is the identity matrix and  $[I-A]^{-1}$  is the matrix of interdependency coefficients from which output multipliers are calculated.

Appendix B -- Transactions Table

Appendix C -- Direct Input Requirements

Appendix D -- Interdependence Coefficients  
(excluding households)

Appendix E -- Interdependence Coefficients  
(including households)

TRANSACTIONS TABLE : SOUTHEAST TEXAS, 1967 (THOUSAND DOLLARS)

	1	2	3	4	5	6	7	8
1 CROP PRODUCTION	567.500	4684.400	10.100	0	0	0	0	0
2 ANIM. & POULT.	0	2018.200	0.600	0	20.200	0	0	0
3 AGRI. SUPP/SVCS.	3095.500	2167.000	120.700	0	0	0	0	0
4 FORESTRY	0	0	0.100	0	0	0	0	0
5 FISHERIES	0	0	0	0	10.200	0	0	0
6 CRUDE PETROLEUM	0	0	11.500	0	0	64.000	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	9793.900	242.300	168.000
8 OTHER MINING	0	0	5.000	0	0	109.700	0	0
9 RES. COM. & INDS	180.000	1778.000	7.900	0	0	11.200	0	0
10 FACILITY CONSTR.	0	0	0	0	0	3.700	0	0
11 MEAT & POULTRY	0	0	1.600	0	0	0	0	0
12 DAIRIES	0	0	0.200	0	0	0	0	0
13 GRAIN PRODUCTS	0	22678.000	0.100	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	658.800	2.300	0	30.300	0	16.800	0
16 BEVERAGES	0	0	23.500	0	0	0	0	0
17 TEX. PRO. & APPR	11.500	351.600	6.700	0	10.800	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	4.800	137.500	2.900	0	0	0	0	0
20 MILLWORK	4.800	63.300	2.200	0	0	0	0	0
21 FURN. & FIXTURES	0	0	2.600	49.800	0	0	0	0
22 PAPER PRODUCTS	0	695.000	0.800	2.900	0	836.800	0	0
23 PRINT & PUBLISH	0	0	22.500	0.900	0	25.700	0	0
24 CHEMICALS	1517.200	1728.600	3854.700	0.800	1.000	149.600	2.800	131.700
25 PETRO. PRODUCTS	346.200	294.300	752.700	167.000	46.800	601.100	118.400	58.900
26 RUB. PLAS. LEATH	37.300	112.100	5.100	0	0	0.100	0.300	1.600
27 GLASS CLAY STONE	208.700	0.300	5.800	0.900	0.100	3.700	0	36.300
28 CEMENT CONCRETE	0	0	1.000	0	0	17.100	0	0
29 METAL SMELT CAST	30.600	166.400	2.200	6.700	0.300	26.600	2.400	1001.800
30 FABR. METAL PROD	0	0	0.100	0	0	0	0	10.500
31 MACH METAL PROD.	58.300	759.400	5.100	16.000	4.300	227.700	2.900	0.300
32 MACHINERY	447.100	341.500	561.900	314.600	0	468.600	0	49.200
33 ELECTRICAL APPAR	1.700	2.900	3.500	3.200	2.200	0	3.400	3.400
34 TRANS. EQUIP.	138.500	106.500	228.700	0.200	96.700	23.000	0.400	1.000
35 OTHER MANUFACT.	13.200	80.300	1.700	25.100	0.400	0	0	0
36 RAILROAD TRANS.	0	0	0	22.200	0	0	1.200	0
37 MOTOR TRANS.	0	447.000	22.900	33.000	0.300	1492.500	273.900	0
38 WATER TRANS.	0	0	0	218.600	0	66.400	0	0
39 AIR TRANS.	0	0	70.800	75.800	0	179.500	35.700	0
40 PIPELINE TRANS.	0	0	0	4.900	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	20.300	0	120.400
42 TELEPHONE TELEGR	50.000	372.000	109.600	0	2.200	175.000	46.500	0
43 RADIO & TV	0	0	20.400	0	0	0	0	0
44 GAS	24.000	459.000	17.800	1.200	0.300	109.600	2.200	1937.500
45 ELECTRICITY	100.000	896.000	89.800	0.300	0.200	117.300	8.300	12.900
46 WATER	0	0	287.200	0	0.800	1.200	2.700	176.100
47 WHOLES. EQ. SUP	46.200	116.000	229.500	44.900	22.800	177.100	87.300	0
48 WHOLES. GROCERY	0	0	0.300	0	0	0	2.500	0
49 WHOLESALE FARM P	277.900	9490.400	32.700	0	0	0	0	0
50 WHOLESALE PETRO	175.100	160.800	572.700	71.800	32.200	607.200	81.300	0
51 GENERAL WHOLESLE	675.400	1385.400	189.000	92.000	0	300.000	10.300	0
52 LUMBERYARDS	6.600	533.300	1.400	0	0	294.200	0	0
53 AUTO TRACTOR DLR	876.900	1114.400	224.300	67.900	1.000	515.300	4.000	0
54 HARDWARE HOME FR	66.500	455.900	0	0	0	0	0.400	0
55 DEPT. CLOTH VAR.	0	0	7.500	0	0	0	0	0
56 FOOD STORES	0	0	6.200	0	42.500	0	0	0
57 GAS. SERV. STA.	358.700	329.300	44.000	0	0	284.100	9.300	0

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58 EAT & DRINK PLCS	0	0	10.000	0	0	0	107.000	0
59 OTHER RETAIL	0	0	8.000	0	0	0	2.700	0
60 BANK & CREDIT AG	679.000	2473.000	93.000	7.100	0.100	10.100	55.100	0
61 INS. CARRIERS	50.900	497.200	20.900	3.300	4.000	99.000	0.600	0
62 FIRE NOT CLASSFD	0	0	0	0	0	0	0	0
63 LEGAL SERVICES	0	0	4.100	0	1.600	148.800	1.600	0
64 LODGING SERVICES	0	0	84.700	0	0	1.500	6.400	0
65 PERSONAL SERV	0	0	0.300	0	0	2.900	0	0
66 OTHER BUS. SERV.	9.100	45.900	761.600	2.700	0	269.200	310.200	0
67 REPAIR SERV.	20.000	78.000	122.300	0	0	2.000	39.700	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0	0	12.800	0	4.200	1097.800	5.600	0
71 ALL OTHER SVCS.	0	0	94.600	0	0	286.100	21.900	0
72 HOUSEHOLDS	3117.000	8751.000	7868.300	17483.600	4370.900	47421.200	6318.000	19489.100
73 FEDERAL GOV'T.	166.000	439.000	490.900	62.000	33.400	5544.400	382.100	2010.600
74 STATE GOV'T.	15.000	96.000	50.700	141.800	3.600	5572.500	25.900	745.700
75 LOCAL GOV'T.	834.000	6322.000	63.900	2693.000	3.000	639.100	3.400	0
76 IMPORTS	328.800	10343.300	5714.900	531.200	195.900	9384.700	1754.100	2020.000
77 GROSS SAVINGS	2129.000	9113.000	450.200	34.300	63.100	3558.700	441.000	694.900
TOTAL INPUTS	16669.000	92742.000	23421.100	22179.700	5005.400	92039.200	10430.600	28669.900



TRANSACTIONS TABLE :      SOUTHEAST      , TEXAS, 1967      (THOUSAND DOLLARS)

	9	10	11	12	13	14	15	16
1 CROP PRODUCTION	0	0	2644.900	0	255.300	0	0	0.200
2 ANIM. & POULT.	0	0	25161.100	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	37.900	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	772.700	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	25.500	0	0	0	0	0	0	0
9 RES. COM. & INDS	41.900	9.300	279.500	0	430.400	276.200	0	0
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	126.600	0	111.400	0	0	0
12 DAIRIES	0	0	0	653.400	0	0	0	0
13 GRAIN PRODUCTS	0	0	0.400	0	494.500	7.600	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	14.800	0	35.200	0	0	7.600	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	24522.000	4079.300	0	0	0	0	0	0
20 MILLWORK	13569.400	1412.500	1116.000	0	0	0	0	0
21 FURN. & FIXTURES	643.600	0	0	0	0	0	0	0
22 PAPER PRODUCTS	1782.200	0	94.000	0	0	1.200	268.700	0
23 PRINT & PUBLISH	3.400	5.600	2.300	11.800	26.600	7.200	103.700	2.500
24 CHEMICALS	1527.200	6240.800	0.300	0	101.700	93.200	7.900	2.500
25 PETRO. PRODUCTS	241.900	0	5.200	2.000	165.600	204.500	0	79.200
26 RUB. PLAS. LEATH	8.600	13.700	0	0	0	0	0	0
27 GLASS CLAY STONE	4666.200	3782.300	2.900	1.100	4.500	0.100	0	6.100
28 CEMENT CONCPETE	5411.100	0	0	0	0	0	0	0
29 METAL SMELT CAST	4073.800	2428.300	20.500	7.600	31.800	0.600	0	43.700
30 FABR. METAL PROD	873.600	0	0	0	0	0	0	0
31 MACH METAL PROD.	142.700	27.800	24.600	18.000	38.300	0.700	1.500	60.800
32 MACHINERY	3403.400	3424.500	0	0	0	3.300	0	0
33 ELECTRICAL APPAR	12.500	11.200	0	0	0	0	0	0
34 TRANS. EQUIP.	660.600	1358.200	0.500	0	1.900	28.800	0	10.300
35 OTHER MANUFACT.	118.900	163.400	0	0	0	0	1.100	0
36 RAILROAD TRANS.	0	0	0	0	178.000	0	0	0
37 MOTOR TRANS.	234.900	25.800	493.500	0	649.800	45.500	395.200	2.900
38 WATER TRANS.	0	0	0	0	0	0	0	0
39 AIR TRANS.	175.300	240.600	1.800	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0	0	0
42 TELEPHONE TELEGR	484.600	505.200	58.600	35.300	113.500	7.200	52.100	29.300
43 RADIO & TV	65.200	56.900	0	31.400	0	0	322.300	0.800
44 GAS	39.400	61.000	26.000	0	396.700	20.400	11.300	8.700
45 ELECTRICITY	308.600	174.800	173.300	176.400	465.900	36.000	627.600	59.000
46 WATER	21.900	37.700	110.200	14.400	3.400	4.000	86.200	34.200
47 WHOLES. EQ. SUP	122.600	86.400	0	1.100	3.100	20.400	0	31.300
48 WHOLES. GROCERY	0	0	0	0.400	0	0.400	0	0
49 WHOLESALE FARM P	0	0	0	0	116.000	0	0	31.300
50 WHOLESALE PETRO	0	0	1.600	0	0.600	6.300	0	0
51 GENERAL WHOLESLE	0	0	38.600	14.200	59.800	1.100	51.100	8.200
52 LUMBERYARDS	0	0	0	0	0	0	0	0
53 AUTO TRACTOR DLR	281.600	477.500	1.900	70.000	7.700	20.400	0	42.800
54 HARDWARE HOME FR	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	291.1	404.600	44.100	0	51.300	0.100	0.100	252.100

58 EAT & DRINK PLCS	137.100	0	0	171.500	0	3.600	0	0
59 OTHER RETAIL	102.500	382.700	11.000	1.800	15.500	1.500	8.300	0
60 BANK & CREDIT AG	1731.500	720.300	1.000	0	1.300	0	8.300	0
61 INS. CARRIERS	148.600	470.700	8.000	10.000	24.700	4.200	52.300	5.300
62 FIRE NOT CLASSFD	64.400	91.800	0	0	36.100	0.200	0	0
63 LEGAL SERVICES	176.300	30.900	4.200	11.700	45.600	1.200	0.400	3.700
64 LODGING SERVICES	0	0	0	0	0	0	0	16.500
65 PERSONAL SERVCS	0	0	6.700	0	0	0	0.400	0
66 OTHER BUS. SERV.	203.000	411.000	23.300	0	96.900	91.900	3.500	34.700
67 REPAIR SERV.	9.800	13.500	0	0	56.400	27.600	0.100	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	39.400	38.400	3.200	4.500	16.900	1.100	5.200	7.400
71 ALL OTHER SVCS.	128.200	235.300	11.300	0	67.000	0	0	0
72 HOUSEHOLDS	36477.600	51559.500	3482.200	1597.900	4808.000	1380.700	2442.400	1858.800
73 FEDERAL GOV'T.	20.300	3506.400	356.100	121.500	908.200	179.300	123.900	486.600
74 STATE GOV'T.	235.300	345.100	34.900	10.500	257.300	49.200	33.600	90.300
75 LOCAL GOV'T.	744.300	199.700	27.100	27.400	897.300	38.100	52.400	103.900
76 IMPORTS	24669.800	21513.200	8102.600	5236.200	27809.700	4043.700	9702.900	2428.900
77 GROSS SAVINGS	712.500	1937.800	163.600	352.800	1637.400	242.400	124.700	941.900
<b>TOTAL INPUTS</b>	<b>129369.500</b>	<b>106483.700</b>	<b>42698.800</b>	<b>8582.900</b>	<b>40386.100</b>	<b>6895.800</b>	<b>15259.900</b>	<b>6683.900</b>

TRANSACTIONS TABLE 1      SOUTHEAST      TEXAS, 1967      (THOUSAND DOLLARS)

	17	18	19	20	21	22	23	24
1 CROP PRODUCTION	0.100	0	0	0.500	0	0	1.200	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	7310.200	6712.500	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	195.600	0	1111.400
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	226.400
8 OTHER MINING	0	0	2.700	48.600	0	0	0	599.200
9 RES. COM. & INDS	0.800	0	51.300	453.800	0	2229.700	0	3781.400
10 FACILITY CONSTR.	0	0	0	0	0	0	0.500	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0	2.700	0	0	0	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	203.500	0	0	48.400	0	0	0
18 LOGGING	0	0	4557.100	0	0	1652.700	0	0
19 LUMBER MILLS	0	183.600	215.400	3908.700	6.500	179.000	0	6.700
20 MILLWORK	0	0.400	0.900	3100.600	20.200	0	0	0.100
21 FURN. & FIXTURES	0	0	0	0	0	0	0	28.600
22 PAPER PRODUCTS	0	163.300	0	0	0	2821.500	3.200	1890.700
23 PRINT & PUBLISH	2.600	5.700	5.900	11.700	6.500	3.900	10.900	2.100
24 CHEMICALS	0	0.500	61.800	0.800	4.000	120.800	3.500	35956.700
25 PETRO. PRODUCTS	0	56.000	480.500	474.400	1.600	571.100	0	0
26 RUB. PLAS. LEATH	0	0	0	0	0	0	0	0
27 GLASS CLAY STONE	0	0.300	4.600	2.000	16.600	168.400	10.400	0.100
28 CEMENT CONCRETE	0	0	0	0	0	0	0	0
29 METAL SMELT CAST	0	3.100	32.300	14.600	39.500	0	97.000	0.700
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0.200	2.800	38.900	17.900	0.700	73.700	117.500	0.900
32 MACHINERY	0	0	6.200	0	1.600	244.900	0	0
33 ELECTRICAL APPAR	0	0	0	0	0	0	0	0
34 TRANS. EQUIP.	0	24.900	12.300	6.700	6.500	0	0.900	0
35 OTHER MANUFACT.	0	0	0	0.100	0	5.300	142.000	0
36 RAILROAD TRANS.	0	0	43.300	0	20.000	260.900	0	0
37 MOTOR TRANS.	31.200	0	1570.500	1783.700	1.600	2775.100	69.500	4496.400
38 WATER TRANS.	0	0	82.700	0	0	0	0	3106.300
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	16.000	10.800	0
42 TELEPHONE TELEGR	6.700	29.800	85.800	115.600	40.600	340.400	72.900	372.800
43 RADIO & TV	0	0	0	0	0	0	0	0
44 GAS	10.000	0	264.000	43.200	0.800	1411.300	24.400	7176.700
45 ELECTRICITY	23.100	0	582.000	221.500	2.700	593.400	322.300	24306.200
46 WATER	2.400	0	8.400	7.600	23.000	476.300	25.800	6.700
47 WHOESL. EG. SUP	0	45.300	241.900	33.100	0	768.400	0.100	6510.900
48 WHOESL. GROCERY	0	0	0	0	0	0	0	0
49 WHOLESAL FARM P	0	0	0	0	0	0	0	0
50 WHOLESAL PETRO	0	17.100	147.000	145.100	0	0	180.300	0.900
51 GENERAL WHOESLE	0	4.200	60.800	26.400	0	653.800	0	0
52 LUMBERYARDS	0	23.400	569.600	16.700	0	0	0	6.700
53 AUTO TRACTOR DLR	0	103.100	51.100	27.600	13.500	0	13.100	0
54 HARDWARE HOME FR	3.100	0	10.600	0	0	0.200	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	1.200	319.400	30.600	118.900	5.400	0	4.400	2.300

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58 CAT & DRINK PLCS	0	0	0	0	0	0	0	0	0
59 OTHER RETAIL	0.300	2.700	27.900	4.200	4.000	39.900	18.600	1.000	0
60 BANK & CREDIT AG	0	45.900	17.700	3.200	0	304.700	7.600	0	0
61 INS. CARRIERS	2.900	22.500	29.500	55.900	14.700	51.100	24.400	1058.200	0
62 FIRE NOT CLASSFD	0	0	0	0	0	7.100	0	0	0
63 LEGAL SERVICES	0	12.100	17.200	27.000	11.900	0	9.900	6.700	0
64 LODGING SERVICES	0	0	0	0	0	0	0.500	0	0
65 PERSONAL SERV	0	0	0	0	0	0	0	0	0
66 OTHER BUS. SERV.	0.500	0.800	17.400	36.600	3.200	142.400	65.700	1055.900	0
67 REPAIR SERV.	0	147.200	245.500	159.900	1140.600	0	178.100	46.600	0
68 MEDICAL SERV.	0	0	0	10.800	0	0	0	0	0
69 EDUCATION SERV.	0	0	24.300	0	0	0	0	0	0
70 BOOKKEEPING SERV	9.900	4.600	9.100	9.200	32.900	0	12.400	6.600	0
71 ALL OTHER SVCS.	6.000	0	124.700	6.500	0	78.200	39.600	652.400	0
72 HOUSEHOLDS	897.400	1446.400	14750.500	3203.200	29.700	11696.300	4235.000	16236.200	0
73 FEDERAL GOV'T.	68.000	240.500	3073.300	481.800	485.600	343.400	474.000	4440.500	0
74 STAT. GOV'T.	22.600	142.400	552.800	156.700	43.500	523.400	78.200	592.500	0
75 LOCAL GOV'T.	9.100	8.000	2755.800	115.600	0	366.400	72.300	219.700	0
76 IMPORTS	682.100	2219.800	34019.800	5395.600	0	68603.900	9868.600	388523.200	0
77 GROSS SAVINGS	22.500	730.500	709.000	872.900	0	0	318.200	15758.100	0
<b>TOTAL INPUTS</b>	<b>1802.700</b>	<b>13520.000</b>	<b>72307.800</b>	<b>21118.900</b>	<b>2025.800</b>	<b>97719.200</b>	<b>16513.800</b>	<b>518188.500</b>	<b>0</b>

TRANSACTIONS TABLE : SOUTHEAST , TEXAS, 1967 (THOUSAND DOLLARS)

	25	26	27	28	29	30	31	32
1 CROP PRODUCTION	0	0.900	0.100	0	0	0.400	0.700	0.300
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	61945.600	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	170.700	0	570.700	29.100	0	0	338.300	7.200
9 RES. COM. & INDS	6929.200	1242.100	0	0	0	0	430.100	12.200
10 FACILITY CONSTR.	0	0	0	0	0	0	0	26.300
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0	9.600	0	0	0.400	9.400	0
16 BEVERAGES	0	0	0	0	0	1.100	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0.200	0.600	0.100	0	3.700
20 MILLWORK	0	0	0	0	0	0	76.300	9.400
21 FURN. & FIXTURES	0	0	0	0	0	0	0	0
22 PAPER PRODUCTS	0	0	3.200	0	0	1.400	3.200	11.600
23 PRINT & PUBLISH	790.300	0	151.300	43.200	33.100	15.800	267.200	33.600
24 CHEMICALS	67876.000	2.700	109.800	0	0.100	0	1953.600	140.800
25 PETRO. PRODUCTS	585.200	0	0	13.200	0	3.100	3562.100	11.400
26 RUB. PLAS. LEATH	0	1678.500	0	0	0	1.300	319.700	249.700
27 GLASS CLAY STONE	193.900	0.400	12.900	1.200	0	36.400	33.000	8.500
28 CEMENT CONCRETE	137.600	0	1688.800	777.700	0	0	0	0.800
29 METAL SMELT CAST	189.100	3.700	91.300	8.400	763.400	257.800	1200.900	3441.000
30 FABR. METAL PROD	0	0	0	405.400	0	0	635.900	176.400
31 MACH METAL PROD.	32068.900	12.700	109.700	10.100	0.200	335.200	2387.900	369.100
32 MACHINERY	1761.200	0	0	0	0	0.600	97.700	321.600
33 ELECTRICAL APPAR	7.900	0	0	0	0	0	0	3.600
34 TRANS. EQUIP.	2.000	5.600	44.800	6.300	0.100	8.200	8.400	18.000
35 OTHER MANUFACT.	0	0.100	0	0	3.700	0.400	0	56.700
36 RAILROAD TRANS.	0	83.900	0	175.700	251.800	0	0.100	0.600
37 MOTOR TRANS.	477.500	57.200	75.000	129.100	53.500	163.200	1263.800	224.500
38 WATER TRANS.	367.300	0	0	0	0	0	2.000	0
35 AIR TRANS.	165.100	0	0	0	0	0	160.000	13.000
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	6.700	0	0	0	0	0	0
42 TELEPHONE TELEGR	841.600	2454.300	36.400	85.100	124.800	256.500	1207.400	276.300
43 RADIO & TV	0	0	0	0	0	0	0	0
44 GAS	0	211.500	110.000	17.600	185.900	31.900	264.500	190.500
45 ELECTRICITY	1775.000	528.100	116.900	52.000	1294.900	338.000	1254.900	279.900
46 WATER	160.300	60.400	27.500	6.800	12.100	19.500	425.200	12.500
47 WHOLES. EQ. SUP	0.900	124.600	2.900	2.000	20.600	2307.800	2988.200	21.300
48 WHOLES. GROCERY	0	0	2.000	0	0	0.100	0	0
49 WHOLES. FARM P	0	0	0	0	0	0	0.600	0
50 WHOLES. PETRO	6.000	0	0	4.000	0	0.500	538.200	1.900
51 GENERAL WHOLESLE	200.700	5.100	171.700	15.800	0.100	1207.600	439.600	26.900
52 LUMBERYARDS	0	0	0	0.300	1.800	0.100	0	0
53 AUTO TRACTOR DLP	8.200	23.200	185.600	26.000	0.400	0	95.800	13.800
54 HARDWARE HOME FR	0	0	0	0	0	0.100	20.400	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0.100	601.500	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	4.400	93.500	0	18.200	8.100	99.400	313.200	0.200

58 EAT & DRINK PLCS	0	0	25.300	0	0	1.000	0	0
59 OTHER RETAIL	0.300	6.600	2.700	0.200	0	34.600	25.400	0.200
60 BANK & CREDIT AG	0	0	0	0	14.700	93.500	0	8.800
61 INS. CARRIERS	1.100	90.200	11.500	23.400	20.800	8.400	105.100	26.900
62 FIRE NOT CLASSFD	0	0	15.100	0	0	0.200	0	0.600
63 LEGAL SERVICES	83.800	16.800	12.400	10.800	12.100	12.900	59.600	25.400
64 LODGING SERVICES	0	0	0	0	0	0	0	0.300
65 PERSONAL SERVCS	0	0	0	0	0	0	72.700	2.000
66 OTHER BUS. SERV.	38.600	160.500	1.300	9.100	9.900	599.000	283.700	65.800
67 REPAIR SERV.	34.800	183.500	0	4.700	165.600	1806.300	2455.900	68.200
68 MEDICAL SERV.	0	0	0	0	0	41.500	0	2.900
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	3.700	22.800	6.600	7.500	0	19.900	0	0
71 ALL OTHER SVCS.	0	10.100	6.000	0	26.500	170.600	71.400	3.300
72 HOUSEHOLDS	52267.400	5145.000	1577.200	1602.500	10357.800	11055.400	276.400	283.400
73 FEDERAL GOV'T.	4064.700	1310.300	88.700	105.400	3951.500	1993.300	40290.500	9485.500
74 STATE GOV'T.	5250.700	174.800	35.800	56.800	102.300	146.400	9538.300	897.300
75 LOCAL GOV'T.	14312.500	96.800	86.600	121.200	25.000	232.900	1685.900	42.100
76 IMPDRTS	2149796.500	14039.500	4700.000	10417.900	22261.400	17654.400	126620.800	20295.900
77 GROSS SAVINGS	61295.500	635.400	427.000	412.800	1283.100	1526.300	6023.900	815.400
<b>TOTAL INPUTS</b>	<b>2463814.200</b>	<b>28487.500</b>	<b>10516.400</b>	<b>14599.700</b>	<b>40985.900</b>	<b>40483.600</b>	<b>208798.900</b>	<b>38021.700</b>

TRANSACTIONS TABLE : SOUTHFAST , TEXAS, 1967 (THOUSAND DOLLARS)

	33	34	35	36	37	38	39	40
1 CROP PRODUCTION	0	0	0.700	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	169.800
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INOS	0	0	0	6384.400	259.800	298.500	0.400	307.300
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0.100	0	119.200	0	0	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	39.800	0	0	0
20 MILLWORK	0	0	0	0	0.700	0	0	0
21 FURN. & FIXTURES	0	0	132.900	0	0	1.500	0	0
22 PAPER PRODUCTS	0	0	0	0	0	0	0	63.900
23 PRINT & PUBLISH	0	15.500	26.600	99.100	0	0.800	0	25.600
24 CHEMICALS	0	2.200	0.200	0	0	1.500	0	0.600
25 PETRO. PRODUCTS	0	0	0	2024.300	741.700	2770.000	2.500	165.600
26 RUB. PLAS. LEATH	0	0	0	0	0	0	0	2.300
27 GLASS CLAY STONE	0	0.600	2.100	0	4.600	20.400	0.100	196.000
28 CEMENT CONCRETE	0	0	0	0	0	6.800	0	0
29 METAL SMELT CAST	0	4298.400	250.900	1451.400	32.800	297.700	0.700	3.000
30 FABR. METAL PROD	0	0	383.800	321.600	0	0	0	0
31 MACH METAL PROD.	0	5.600	19.100	0	19.500	8.300	0	5.600
32 MACHINERY	0	592.200	0	389.800	0	12.800	0.900	436.000
33 ELECTRICAL APPAR	0	3.900	0	5.700	0	2.100	0	1.400
34 TRANS. EQUIP.	0	0	0	276.400	0	0	0.900	1.100
35 OTHER MANUFACT.	0	0	0.100	0	0	0	0	100.300
36 RAILROAD TRANS.	0	222.000	22.100	3322.800	0	55.200	0	0
37 MOTOR TRANS.	0	2.100	11.200	542.700	0	58.900	0	0
38 WATER TRANS.	0	0	0	0	0	930.900	0	0
39 AIR TRANS.	0	0	3.700	183.800	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	43.800	0	0
42 TELEPHONE TELEGR	1.000	401.700	58.900	0	963.600	252.400	5.200	5.700
43 RADIO & TV	0	0	0	0	0	0	0	0
44 GAS	0.200	341.600	16.700	85.400	217.000	4.500	0.300	107.200
45 ELECTRICITY	1.200	1199.200	65.300	180.200	320.000	138.300	0.600	195.600
46 WATER	0.100	192.500	6.200	231.100	18.200	19.600	0.100	0
47 WHOLES. EQ. SUP	0	86.300	0	103.400	1336.000	3963.300	0	0
48 WHOLES. GROCERY	0	0	0	0	0	0	0	0
49 WHOLESALE FARM P	0	0	0	0	0	0	0	0
50 WHOLESALE PETRO	0	0	0	0	647.500	12.800	1.700	0
51 GENERAL WHOLESLE	0	9.000	27.800	716.400	133.100	3488.800	2.500	19.900
52 LUMBERYARDS	0	0	0	0	116.000	43.800	0	0
53 AUTO TRACTOR DLR	0	0.200	0	0	0	6.800	0	0
54 HARDWARE HOME FR	0	0	0	0	0	55.200	0	0
55 DEPT. CLOTH VAR.	0	0	0.500	0	0	3.000	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	356.500	20.900	0	0	3.800	0	0

56 EAT & DRINK PLCS	0	0	0	0	0	0	0	0	0
59 OTHER RETAIL	0.200	12.500	1.400	0	0	0	0.800	0	0
60 BANK & CREDIT AG	0.700	14.800	11.100	303.600	0	0	569.000	0	0
61 INS. CARRIERS	0	271.600	19.000	17.100	165.400	632.100	0	0	0
62 FIRE NOT CLASSFD	0	0	0	122.000	101.700	228.200	0.200	1.000	0
63 LEGAL SERVICES	1.000	192.900	5.800	0	142.800	134.200	0	10.100	0
64 LODGING SERVICES	0	0	0	0	0	0	0	6.100	0
65 PERSONAL SERV	0	0	0	592.900	0	0	0	0	0
66 OTHER BUS. SERV.	0	16.200	17.500	273.400	14.500	70.800	0	0	0
67 REPAIR SERV.	0	1.000	46.100	0	0	50.600	0	0	0
68 MEDICAL SERV.	0	0	0	0	0	0.800	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	15.900	0	0	0
70 BOOKKEEPING SERV	1.000	307.900	16.400	0	65.200	32.800	0	0	0
71 ALL OTHER SVCS.	0	0	59.600	0	20.300	113.300	0	0	0
72 HOUSEHOLDS	62.900	12505.800	1508.000	35922.800	7576.000	3640.700	1649.100	3394.400	0
73 FEDERAL GOV'T.	3.700	1040.500	241.300	4106.700	741.000	2180.800	59.300	1142.900	0
74 STATE GOV'T.	0.500	238.400	50.900	61.000	910.100	249.400	0.300	145.500	0
75 LOCAL GOV'T.	0.200	385.900	45.400	1410.300	148.100	176.800	6.500	291.400	0
76 IMPORTS	35.600	52297.300	6001.500	5422.700	6953.400	3064.300	198.900	511.100	0
77 GROSS SAVINGS	1.800	444.600	162.700	5225.800	2437.800	752.600	5.200	1985.500	0
<b>TOTAL INPUTS</b>	<b>110.100</b>	<b>75459.000</b>	<b>9236.400</b>	<b>69896.000</b>	<b>24126.600</b>	<b>24414.600</b>	<b>1935.400</b>	<b>9294.900</b>	<b>0</b>



TRANSACTIONS TABLE : SOUTHEAST TEXAS, 1967 (THOUSAND DOLLARS)

	41	42	43	44	45	46	47	48
1 CROP PRODUCTION	0	0	0	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	331.100
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INOS	0	0	69.300	2045.700	1901.700	461.300	0	0
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	3.400
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0.200
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	6.100
15 PROD. FOOD & KIN	0	0	0.900	0	0	0	0.300	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	137.500	280.600	6.100	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	126.800	0.200	0	0
20 MILLWORK	0	0	0.300	0	6.200	2.600	0	0
21 FURN. & FIXTURES	0	0	0	0	2.100	0	0	0
22 PAPER PRODUCTS	0	0	0	26.200	255.600	7.200	0.100	0
23 PRINT & PUBLISH	0	57.900	0	577.300	1546.300	6.600	0	0
24 CHEMICALS	0	0	0	21.000	1942.200	136.600	78.000	0
25 P.ETRO. PRODUCTS	0	0	501.900	2874.600	11040.100	13.800	0.100	0
26 RUB. PLAS. LEATH	0	0	0	4.900	35.300	9.900	148.100	0
27 GLASS CLAY STONE	0	0	0.300	0	16.600	311.600	0.800	0
28 CEMENT CONCRETE	0	0	0	0	341.900	0.500	0	0.200
29 METAL SMELT CAST	0	0	742.300	6.500	186.000	22.300	6.000	1.400
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0	0	2.800	0	19.700	15.000	1.300	1.700
32 MACHINERY	0	0	0	8.100	24.900	7.000	0	0
33 ELECTRICAL APPAR	0	0	0.400	3.700	1.300	2.900	6.500	0
34 TRANS. EQUIP.	0	0	0	14.500	43.600	0	3.400	0
35 OTHER MANUFACT.	0	0	11.400	0	8.300	6.300	0	0
36 RAILROAD TRANS.	0	35.200	2.400	344.400	2847.300	0	185.400	116.600
37 MOTOR TRANS.	0	38.200	0	461.600	778.200	0	0	147.500
38 WATER TRANS.	0	0	0	0	0	0	0	0
39 AIR TRANS.	0	22.990	7.100	0	7.300	0	4.900	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	72.600	0	0	0	0	0
42 TELEPHONE TELEG <sup>o</sup>	3.400	0	0	2873.600	3257.800	23.300	263.800	77.200
43 RADIO & TV	0	0	0	148.500	600.400	0	125.200	0
44 GAS	0.400	34.100	0	16737.300	163821.900	0	2.100	6.900
45 ELECTRICITY	0.700	277.600	80.800	1130.400	0	587.700	117.500	783.900
46 WATER	0	33.100	2.900	291.100	2738.200	776.500	1.100	3.400
47 WHOLES. ED. SUP	17.400	0	0	35.600	1357.100	530.700	57.000	0
48 WHOLES. GROCERY	0	0	0.100	0	0	0	0.100	0
49 WHOLESALE FARM P	0	0	0	0	0	0	0	0
50 WHOLESALE PETRO	0	0	0	216.700	532.100	61.700	453.000	0
51 GENERAL WHOLESLE	0	0	10.000	2831.600	2690.400	28.000	11.400	2.700
52 LUMBERYARDS	0	0	0	0	32.200	0	0	0
53 AUTO TRACTOR DLR	0	0	0	2723.200	11787.200	0	140.500	0
54 HARDWARE HOME FR	0	0	0	11.300	222.400	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	1.100	0
56 FOOD STORFS	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	0	0	862.000	664.800	0	0	0

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58 EAT & DRINK PLCS	0	0	7.900	0	0	0	0	0	0
59 OTHER RETAIL	0	0	0	0	0	0	0	0	0
60 BANK & CREDIT AG	0	0	12.800	4316.100	4437.200	0	0	0.400	48.000
61 INS. CARRIERS	3.400	0.200	0	99.800	268.600	8.100	0	155.500	0
62 FIRE NOT CLASSFD	0.900	36.600	5.300	853.500	526.800	0	0	3.500	0
63 LEGAL SERVICES	3.300	0	7.600	654.800	475.800	0	0	20.600	16.600
64 LODGING SERVICES	0	0	5.200	0	0	0	0	14.500	34.300
65 PERSONAL SERV.	0	0	0	0	0	0	0	0	0
66 OTHER BUS. SERV.	40.500	65.200	296.600	2191.300	985.700	0	0	16.300	0
67 REPAIR SERV.	0	0	66.600	755.200	0	0	0	14.500	0
68 MEDICAL SERV.	0	0	0	0	1267.800	0	0	111.600	125.200
69 EDUCATION SERV.	0	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0.100	0	3.600	981.100	375.300	0	0	0	0
71 ALL OTHER SVCS.	0	0	51.100	3525.000	344.000	0	0	5.600	16.400
72 HOUSEHOLDS	166.200	8909.600	2752.100	100513.200	90911.500	0	0	36.600	0
73 FEDERAL GOV'T.	20.700	6117.300	62.700	63493.800	145053.600	5931.000	16354.800	6391.760	0
74 STATE GOV'T.	2.100	818.200	60.400	17694.600	17506.800	69.300	1020.600	442.900	0
75 LOCAL GOV'T.	5.000	1506.200	43.300	44032.800	51636.000	0	231.600	139.600	0
76 IMPORTS	256.400	12412.800	380.400	281309.700	499644.500	0	148.400	139.600	0
77 GROSS SAVINGS	4.800	5445.600	390.600	97224.200	10474.800	4840.100	17109.300	335.000	0
<b>TOTAL INPUTS</b>	<b>925.300</b>	<b>35810.700</b>	<b>5651.700</b>	<b>653032.400</b>	<b>1033045.500</b>	<b>16439.500</b>	<b>37201.500</b>	<b>9447.400</b>	<b>0</b>

TRANSACTIONS TABLE :      SOUTHEAST      , TEXAS, 1967      (THOUSAND DOLLARS)

	49	50	51	52	53	54	55	56
1 CROP PRODUCTION	0	0.200	0	0	0	0	0	0
2 ANIM. & POULT.	0	0.800	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	561.100	0	0	0	0	0	0	0
10 FACILITY CONSTR.	0	0	0	0	1387.200	0	0	137.800
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0.100	0	0	0	0	0	0
15 PROD. FOOD & KIN	11.200	0	0	0	0	0	0	0
16 BEVERAGES	0	2.600	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	15.700	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0.200	0	0	0	20.600	0	0
20 MILLWORK	0	12.700	0	0	0	0.400	0	0
21 FURN. & FIXTURES	0	282.100	0	0	0	0	0	26.700
22 PAPER PRODUCTS	0	2.800	0	0	0	0	0	0
23 PRINT & PUBLISH	0	51.900	314.100	24.000	135.300	134.700	186.800	96.400
24 CHEMICALS	0	7.900	0	0	0	1424.700	697.000	567.600
25 PETRO. PRODUCTS	0	1240.700	0	0	0	0	2099.100	0
26 RUB. PLAS. LEATH	0	22.900	0	0	342.500	0	0	0
27 GLASS CLAY STONE	0	12.600	5.600	0.800	106.600	3.700	9.600	10.300
28 CEMENT CONCRETE	0	0	0	0	0	0	0	0
29 METAL SMELT CAST	0	49.100	39.400	5.800	776.400	26.700	68.200	73.200
30 FABR. METAL PROD	0	0.200	0	0	0	0	0	0
31 MACH METAL PROD.	0	236.000	47.400	7.000	933.800	32.000	82.000	98.000
32 MACHINERY	0	1.100	0	0	85.400	114.500	0	0
33 ELECTRICAL APPAR	0	3.200	0	0	0	0	0	0
34 TRANS. EQUIP.	0	3.900	0	5.500	0	30.100	1.700	0
35 OTHER MANUFACT.	0	4.100	0	0	0	0	0	0
36 RAILROAD TRANS.	0	216.400	1529.500	0	154.100	0	0	0
37 MOTOR TRANS.	38.800	164.400	0	0	834.900	0	230.700	0
38 WATER TRANS.	0	65.900	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	154.100	0	0	0
42 TELEPHONE TELEGR	232.100	1236.500	491.600	34.000	1438.600	0	198.400	179.100
43 RADIO & TV	0	0	0	1.900	68.500	350.600	139.400	16.500
44 GAS	16.700	0	0	13.300	0	0	0	1171.100
45 ELECTRICITY	195.400	0	0	30.600	0	284.400	0	1978.200
46 WATER	31.600	0	54.600	3.400	0	0	0	330.700
47 WHOESL. EQ. SUP	0	59.700	0	0.400	9.300	1.900	0	0
48 WHOESL. GROCERY	0	1.900	0	0	0	0	0	0
49 WHOESALE FARM P	0	0.500	0	0	0	0	0	0
50 WHOESALE PETRO	0	0	0	0	0	0	0	0
51 GENERAL WHOESLE	431.800	169.200	74.200	10.400	1462.900	40.000	128.500	138.000
52 LUMBERYARDS	0	0	0	0	0	22.800	0	0
53 AUTO TRAILOR DLR	0	0	0	23.000	0	124.700	7.200	0
54 HARDWARE HOME FR	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	26.400	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	117.200	13.400	0	0	0	0	0	0

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58 EAT & DRINK PLCS	0	9.300	0	0	0	0	0	0	0
59 OTHER RETAIL	0	0	0	0	0	0	0	0	0
60 BANK & CREDIT AG	70.500	206.000	314.100	1.700	435.200	332.400	1197.000	730.200	0
61 INS. CARRIERS	125.500	5.000	158.600	7.300	24.100	31.200	72.500	0	0
62 FIRE NOT CLASSFD	5.600	119.500	83.000	0.200	444.400	20.400	294.800	290.900	42.700
63 LEGAL SERVICES	0	51.500	68.300	11.900	0	52.000	0	0	0
64 LODGING SERVICES	0	49.500	0	0	0	0	0	0	0
65 PERSONAL SERV.	0	0	163.900	0	20.700	0	0	0	0
66 OTHER BUS. SERV.	108.400	55.100	41.700	130.500	8.700	86.400	257.100	2727.900	601.400
67 REPAIR SERV.	0	5.200	0	5.100	93.000	0	491.300	730.200	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	15.600	32.900	52.400	14.100	120.500	26.800	142.400	216.000	0
71 ALL OTHER SVCS.	45.000	3103.000	95.600	13.600	0.200	717.900	147.600	0	0
72 HOUSEHOLDS	4898.200	11303.300	34598.900	5118.500	36853.300	7595.600	22844.400	30998.800	11513.800
73 FEDERAL GOV'T.	0	1391.100	3802.000	619.200	2374.400	542.200	1594.600	300.800	3832.900
74 STATE GOV'T.	363.600	310.400	3767.900	44.200	733.400	74.400	300.800	18290.500	199.800
75 LOCAL GOV'T.	173.700	314.300	1955.200	89.900	695.400	74.400	929.800	0	0
76 IMPORTS	1892.100	3420.000	6775.200	2742.600	29215.800	3762.000	17654.000	0	0
77 GROSS SAVINGS	628.800	1669.300	4792.200	239.700	2575.100	131.800	1019.300	0	0
TOTAL INPUTS	9962.900	25960.000	59225.400	9198.600	81484.000	16059.300	50794.200	78813.600	0

TRANSACTIONS TABLE : SOUTHEAST TEXAS, 1967 (THOUSAND DOLLARS)

	57	58	59	60	61	62	63	64
1 CROP PRODUCTION	0	0	0	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	0	38.200	0	536.900	0	842.200	0	267.100
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT. & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0	0	0	0	0.700	0	0
16 BEVERAGES	0	0	0	0	0	117.800	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	0	0	0	0
20 MILLWORK	0	0	0	0	0	0	0	0
21 FURN. & FIXTURES	0	0	155.300	3.000	0	0	0	5.000
22 PAPER PRODUCTS	0	26.700	2246.700	0	0	0.200	0	6.900
23 PRINT & PUBLISH	0	157.400	0	2.400	329.100	0	0	53.500
24 CHEMICALS	0	0	0	0	0	0	0.600	0
25 PETRO. PRODUCTS	0	0	0	0	0	0	0	0
26 RUB. PLAS. LEATH	966.200	0	31.000	0	0	0	0	0
27 GLASS CLAY STONE	0	2.900	0	14.100	11.600	0.800	1.100	1.700
28 CEMENT CONCRETE	0	0	219.500	0	0	0	0	0
29 METAL SMELT CAST	0	20.300	0	100.200	82.000	5.600	7.700	11.900
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0	2.400	264.000	120.500	525.900	6.700	9.200	14.300
32 MACHINERY	0	0	0	0	0	0	0	4.400
33 ELECTRICAL APPAR	0	0	7.500	0	0	0	0	2.500
34 TRANS. EQUIP.	0	0	0	0	0	0	0	0.500
35 OTHER MANUFACT.	0	0	0	0	0	0	0	0
36 RAILROAD TRANS.	0	0	232.900	0	0	0	0	0
37 MOTOR TRANS.	0	0	451.300	0	0	0	0	2.500
38 WATER TRANS.	0	0	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0	0	0
42 TELEPHONE TELEGR	0	49.700	854.300	464.700	25.800	245.100	227.000	239.600
43 RADIO & TV	0	4.600	1877.900	187.600	0	0	0	46.500
44 GAS	0	324.600	0	130.200	0	89.400	54.000	21.300
45 ELECTRICITY	0	546.200	0	346.000	0	379.800	0	210.200
46 WATER	0	91.700	0	36.000	0	74.100	0	33.200
47 WHOLES. EQ. SUP	47.000	0	0.900	0	0	0	0	1.900
48 WHOLES. GROCERY	0	0	0	0	0	0.200	0	4.400
49 WHOLESALE FARM P	0	0	0	0	0	0	0	0.600
50 WHOLESALE PETRO	664.500	0	0	0	0	0	0	0
51 GENERAL WHOLESLE	0	38.200	414.100	427.300	349.600	23.700	144.700	22.300
52 LUMBERYARDS	0	0	0	0	0	0	0	0
53 AUTO TRACTOR DLR	0	0	52.300	0	0	0	0	2.200
54 HARDWARE HOME FR	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	31.600
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	0	0	0	0	13.100	0	0

58 EAT & DRINK PLCS	0	0	0	0	0	9.700	0	0
59 OTHER RETAIL	0	0	0	0	0	0	3.600	0
60 BANK & CREDIT AG	0	202.400	446.600	87.500	3.400	1410.200	0	209.000
61 INS. CARRIERS	2.000	0	130.400	35.600	16.800	38.000	12.000	3.400
62 FIRE NOT CLASSFD	0	80.600	117.900	53.300	65.800	25.500	36.300	2.700
63 LEGAL SERVICES	0	22.900	859.000	151.400	179.700	690.400	108.100	22.500
64 LODGING SERVICES	0	0	0	0	0	5.200	0	0
65 PERSONAL SERV	0	756.200	0	0	0	0	0	18.100
66 OTHER BUS. SERV.	0	166.700	454.000	1475.800	419.300	185.200	0	55.200
67 REPAIR SERV.	0	202.400	116.500	0	0	0	0	49.400
68 MEDICAL SERV.	0	0	0	0	75.300	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	75.700	0
70 BOOKKEEPING SERV	0	59.800	105.600	63.800	7.100	95.700	0	0
71 ALL OTHER SVCS.	0	0	0	152.400	172.800	162.000	114.600	71.900
72 HOUSEHOLDS	4546.200	9177.600	45350.100	55083.800	5685.600	1437.900	5245.000	3681.100
73 FEDERAL GOV'T.	1039.300	3191.800	8725.700	2780.700	422.800	233.100	490.800	85.300
74 STATE GOV'T.	34.600	1062.500	2869.700	108.500	876.400	654.000	32.400	199.600
75 LOCAL GOV'T.	34.600	1062.500	3277.400	933.900	75.900	564.500	64.900	75.700
76 IMPORTS	1012.400	4571.900	18265.100	11617.700	1674.000	984.800	3494.600	2184.200
77 GROSS SAVINGS	0	55.400	2809.900	4025.800	0	1106.400	0	567.000
<b>TOTAL INPUTS</b>	<b>8346.800</b>	<b>21915.600</b>	<b>90335.600</b>	<b>78939.100</b>	<b>10998.900</b>	<b>9402.000</b>	<b>10122.300</b>	<b>8209.200</b>

TRANSACTIONS TABLE : SOUTHEAST , TEXAS, 1967 (THOUSAND DOLLARS)

	65	66	67	68	69	70	71
1 CROP PRODUCTION	0	0.100	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0
9 RES. COM. & INDS	0	4.400	0	0	991.200	0	0
10 FACILITY CONSTR.	0	250.300	0	868.000	0	0	0
11 MEAT & POULTRY	0	0	0	0	3905.300	0	0
12 DAIRIES	0	0	0	0	5053.400	0	0
13 GRAIN PRODUCTS	0	0	0	0	30.600	0	0
14 BAKERY PRODUCTS	0	0	0	0	2393.200	0	0
15 PROD. FOOD & KIN	0	0	0	864.400	4444.300	0	708.700
16 BEVERAGES	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	0	24.200	0	0
18 LOGGING	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	36.700	0	0
20 MILLWORK	0	0	0	0	0	0	0
21 FURN. & FIXTURES	0	0	0	0	212.000	0	0
22 PAPER PRODUCTS	0	0	0	288.200	747.800	0	2903.300
23 PRINT & PUBLISH	0	12.100	21.900	109.300	163.000	0	1878.400
24 CHEMICALS	0.900	2.500	1.800	0	116.200	1.800	8.300
25 PETRO. PRODUCTS	0	2.500	0	0	29.100	0	0
26 RUB. PLAS. LEATH	0	0	0	0	3.400	0	0
27 GLASS CLAY STONE	10.500	4.200	0.600	18.400	14.000	2.900	166.800
28 CEMENT CONCRETE	0	0	0	0	0	0	0
29 METAL SMELT CAST	71.800	1002.000	4.300	130.400	247.600	20.300	1181.600
30 FABR. METAL PROD	0	4.700	0	0	0.700	0	0
31 MACH METAL PROD.	89.800	41.200	5.100	157.600	368.900	24.400	2508.600
32 MACHINERY	0	52.000	0	0	225.100	58.900	0
33 ELECTRICAL APPAR	0	0	0	0	3.400	0	0
34 TRANS. EQUIP.	24.400	5.900	30.000	0	58.200	0	134.200
35 OTHER MANUFACT.	0	320.300	0	0	669.500	0	0
36 RAILROAD TRANS.	0	0	0	0	42.200	0	0
37 MOTOR TRANS.	0	22.900	16.300	0	337.800	0	272.000
38 WATER TRANS.	0	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	126.100	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0
41 OTHER TRANS.	0	41.900	10.900	0	0	0	0
42 TELEPHONE TELEGR	39.400	196.900	0	0	1220.000	70.700	3461.600
43 RADIO & TV	0	8.100	0	14.200	105.000	0	961.600
44 GAS	118.300	11.200	0	0	864.800	0	543.600
45 ELECTRICITY	424.000	99.600	0	91.400	1989.200	0	9785.500
46 WATER	78.900	3.100	0	0	566.000	0	815.600
47 WHOLES. EQ. SUP	134.100	65.400	485.700	795.700	1669.900	26.400	8.700
48 WHOLES. GRCCERY	0	0	0	182.800	295.200	0	1842.000
49 WHOLESALE FARM P	0	0	0	0	0	0	1.600
50 WHOLESALE PETRO	0	0	0	0	0	0	0
51 GENERAL WHOLESLE	140.600	56.500	7.800	245.600	4023.000	38.300	2226.300
52 LUMBERYARDS	0	0	0	0	0	0	0
53 AUTO TRACTOR DL9	92.000	37.700	124.200	0	0	0	555.500
54 HARDWARE HOME FR	0	0	0	5206.000	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	92.900
56 FOOD STORES	0	0	0	0	0	0	0
57 GAS. SERV. STA.	48.200	44.300	133.200	0	16.900	43.200	0

58 EAT & DRINK PLCS	0	0	0	0	0	0	0	0
59 OTHER RETAIL	5.000	7.400	10.100	0.300	33.300	0	0	0
60 BANK & CREDIT AG	29.600	265.100	76.300	0	40.100	0	0	48.400
61 INS. CARRIERS	62.000	62.200	5.300	25.400	139.400	0	0	2199.700
62 FIRE NOT CLASSFD	112.800	40.200	27.500	340.200	717.900	4.900	0	136.700
63 LEGAL SERVICES	0	17.500	0	91.400	147.900	36.700	0	0
64 LODGING SERVICES	0	0	0	0	0	0	0	63.600
65 PERSONAL SERV	0	0	0	507.800	118.400	0	0	84.600
66 OTHER BUS. SERV.	115.600	99.300	5.400	5.600	533.100	0	0	0
67 REPAIR SERV.	621.200	78.400	0	0	0	0	0	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	1044.200
69 EDUCATION SERV.	0	0	0	0	31.300	0	0	0
70 BOOKKEEPING SERV	21.400	28.800	0	44.400	0	0	0	0
71 ALL OTHER SVCS.	47.400	116.300	21.900	677.600	348.500	0	0	639.900
72 HOUSEHOLDS	6650.500	6339.100	5236.500	16631.100	65728.800	22.600	0	8152.000
73 FEDERAL GOV'T.	641.900	833.300	212.500	472.500	2480.200	3931.800	0	18500.300
74 STATE GOV'T.	157.000	208.600	60.000	48.100	0	247.500	0	4572.000
75 LOCAL GOV'T.	78.900	67.300	65.570	21.800	39.200	0	0	4756.400
76 IMPORTS	8729.500	10737.200	7083.900	7925.700	4677.600	25.900	0	2290.400
77 GROSS SAVINGS	2682.100	425.000	476.800	0	2625.500	1824.100	0	13719.300
						90.600	0	0
TOTAL INPUTS	21223.600	21615.500	14123.500	35763.900	108695.100	6469.200	0	86264.300



TRANSACTIONS TABLE :      SOUTHEAST      , TEXAS, 1967      (THOUSAND DOLLARS)

	HOUSEHOLDS	FED GOV	STATE GOV	LOCAL GOV	EXPORT	NET INV CHANGE
1 CROP PRODUCTION	12.500	0	0	0	8488.900	0
2 ANIM. & POULT.	0	0	2.900	0	65538.200	0
3 AGRI. SUPP/SVCS.	0	0	0	0	18000.000	0
4 FORESTRY	0	0	30.100	0	8126.600	0
5 FISHERIES	0	0	10.000	0	3881.400	0
6 CRUDE PETROLEUM	0	0	0	0	28541.300	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0
8 OTHER MINING	0	0	160.300	0	26602.900	0
9 RES. COM. & INDS	112.300	0	73.400	3913.300	21526.500	0
10 FACILITY CONSTR.	0	7181.100	21411.100	0	9235.100	0
11 MEAT & POULTRY	4427.300	0	0	0	34086.700	36.000
12 DAIRIES	1304.800	0	74.400	0	1496.500	0
13 GRAIN PRODUCTS	0	0	13.300	0	1715.500	0
14 BAKERY PRODUCTS	4348.400	0	31.000	0	120.200	2.900
15 PROD. FOOD & KIN	2644.900	0	450.000	0	3882.600	1337.700
16 BEVERAGES	2393.300	0	0	0	4000.800	144.800
17 TEX. PRO. & APPR	236.200	0	88.900	122.800	246.200	12.000
18 LOGGING	0	0	0	0	7310.200	0
19 LUMBER MILLS	1749.900	0	43.700	0	36937.200	101.700
20 MILLWORK	15.200	0	26.700	0	1575.500	75.100
21 FURN. & FIXTURES	249.700	0	84.800	82.500	82.200	8.100
22 PAPER PRODUCTS	3906.400	0	76.000	0	78163.600	0
23 PRINT & PUBLISH	2406.100	0	86.000	751.500	2476.300	34.200
24 CHEMICALS	2151.000	0	441.100	114.400	378418.500	1130.700
25 PETRO. PRODUCTS	368710.100	0	383.400	0	2063443.500	-120.100
26 RUB. PLAS. LEATH	93.800	0	330.500	43.700	24179.100	-5.900
27 GLASS CLAY STONE	0	0	195.900	16.400	142.800	1.500
28 CEMENT CONCRETE	23.600	0	52.700	0	199.700	0
29 METAL SMELT CAST	0	3710.400	28.700	115.900	11920.900	0
30 FABR. METAL PROD	276.100	0	27.500	0	37640.600	-273.500
31 MACH METAL PROD.	376.500	0	133.700	139.300	32029.100	2480.600
32 MACHINERY	31.400	0	565.800	1669.800	19958.700	-245.400
33 ELECTRICAL APPAR	0	0	7.400	8.900	1.300	0
34 TRANS. EQUIP.	4489.000	0	3.200	662.500	48710.800	0
35 OTHER MANUFACT.	163.700	0	120.900	0	7183.300	35.800
36 RAILROAD TRANS.	822.600	199.000	0.600	0	58507.600	0
37 MOTOR TRANS.	1257.800	541.000	297.400	0	328.300	0
38 WATER TRANS.	0	0	0	0	19574.500	0
39 AIR TRANS.	164.000	241.000	1.500	13.400	42.100	0
40 PIPELINE TRANS.	0	0	0	0	9290.000	0
41 OTHER TRANS.	22.700	0	0	0	5.100	0
42 TELEPHONE TELEGR	6219.500	22.700	402.900	61.200	1673.600	0
43 RADIO & TV	0	0	0	0	498.200	0
44 GAS	10288.100	23.000	34.500	0	444895.300	0
45 ELECTRICITY	17462.300	13.200	207.500	982.700	957075.000	0
46 WATER	4600.800	21.400	238.300	441.400	2603.100	0
47 WHOESL. EQ. SUP	3421.400	0	55.200	0	8552.400	0
48 WHOESL. GROCERY	0	0	0	0	7114.600	0
49 WHOESALE FARM P	0	0	0	0	11.300	0
50 WHOESALE PETRO	14185.600	11.200	57.600	0	6546.200	0
51 GENERAL WHOESLE	145.200	5.800	130.200	494.000	32046.600	0
52 LUMBERYARDS	1142.000	0	0	0	6337.700	0
53 AUTO TRACTOR DLR	48415.100	0	0	689.100	12436.000	0
54 HARDWARE HOME FR	9742.200	0	0	179.200	85.800	0
55 DEPT. CLOTH VAR.	39415.000	0	0	0	10614.600	0
56 FOOD STORES	62635.500	0	0	0	16129.400	0
57 GAS. SERV. STA.	2009.000	0	0	357.800	534.100	0

58 EAT & DRINK PLCS	17039.300	0	0	13.400	4380.500	0
59 OTHER RETAIL	26500.600	0	2.300	0	63006.700	0
60 BANK & CREDIT AG	11837.500	0	0	14037.900	28662.600	0
61 INS. CARRIERS	3899.500	0.700	1.400	32.200	1530.500	0
62 FIRE NOT CLASSFD	0	0	20.700	4098.300	229.000	0
63 LEGAL SERVICES	4017.500	18.800	38.100	0	1045.300	0
64 LODGING SERVICES	368.300	0	0	13.400	7541.800	31.300
65 PERSONAL SERVS	13000.800	0.600	0	0	3343.100	-128.100
66 OTHER BUS. SERV.	747.700	5.500	110.400	10.900	7203.200	-6.100
67 REPAIR SERV.	1886.700	1.400	31.100	0	511.800	93.000
68 MEDICAL SERV.	27326.900	0.500	12.100	0	7025.300	0
69 EDUCATION SERV.	24432.500	17356.600	27541.400	31659.900	7517.500	0
70 BOOKKEEPING SERV	1233.600	0	0	0	287.600	0
71 ALL OTHER SVCS.	44550.400	0.500	13.300	13.400	20936.400	-102.300
72 HOUSEHOLDS	77647.300	11004.100	24358.900	24927.500	0	0
73 FEDERAL GOV'T.	120723.600	0	11.300	0	0	0
74 STATE GOV'T.	22088.300	0	0	0	0	0
75 LOCAL GOV'T.	46463.400	0	27318.800	0	0	0
76 IMPORTS	130519.000	7048.000	65182.900	4367.700	0	0
77 GROSS SAVINGS	49862.300	0	0	0	0	0
<b>TOTAL INPUTS</b>	<b>1246266.200</b>	<b>47406.500</b>	<b>171021.800</b>	<b>90033.800</b>	<b>4749382.700</b>	<b>14644.500</b>

TRANSACTIONS TABLE : SOUTHEAST TEXAS, 1967 (THOUSAND DOLLARS)

	CAPITAL FORMATION	TOTAL FINAL DEMAND	TOTAL OUTPUTS
1 CROP PRODUCTION	0	8501.400	16669.000
2 ANIM. & POULT.	0	65541.100	92742.000
3 AGRI. SUPP/SVCS.	0	18000.000	23421.100
4 FORESTRY	0	8156.900	22179.700
5 FISHERIES	0	3891.400	5005.400
6 CRUDE PETROLEUM	0	28541.300	92039.200
7 OIL/GAS FLD. SVC	0	0	10430.600
8 OTHER MINING	0	26763.200	28669.900
9 RES. COM. & INDS	70491.700	96117.200	129369.500
10 FACILITY CONSTR.	66120.400	103947.700	106483.700
11 MEAT & POULTRY	0	38550.000	42698.800
12 DAIRIES	0	2875.700	3542.700
13 GRAIN PRODUCTS	0	17168.800	40386.100
14 BAKERY PRODUCTS	0	4502.500	6895.800
15 PROD. FOOD & KIN	0	8322.200	15259.900
16 BEVERAGES	0	6539.900	6683.900
17 TEX. PRO. & APPR	0	706.100	1802.700
18 LOGGING	0	7310.200	13520.000
19 LUMBER MILLS	0	38832.500	72307.900
20 MILLWORK	0	1693.000	21118.900
21 FURN. & FIXTURES	0	507.300	2025.800
22 PAPER PRODUCTS	0	82146.000	97719.200
23 PRINT & PUBLISH	788.400	6542.500	16513.800
24 CHEMICALS	0	392255.700	518188.500
25 PETRO. PRODUCTS	0	2432416.900	2463814.200
26 RUB. PLAS. LEATH	0	24641.200	28487.500
27 GLASS CLAY STONE	0	356.600	10516.400
28 CEMENT CONCRETE	5727.900	6003.900	14599.700
29 METAL SMELT CAST	0	15775.900	40595.900
30 FABR. METAL PROD	0	37670.700	40483.600
31 MACH METAL PROD	131041.200	166200.400	206798.500
32 MACHINERY	2580.200	24560.500	38021.700
33 ELECTRICAL APPAR	0	17.600	110.100
34 TRANS. EQUIP.	18153.700	72019.200	75459.000
35 OTHER MANUFACT.	0	7503.700	9236.400
36 RAILROAD TRANS.	0	59529.800	69896.000
37 MOTOR TRANS.	0	2424.500	24126.600
38 WATER TRANS.	0	19574.500	24414.600
39 AIR TRANS.	0	462.000	1935.400
40 PIPELINE TRANS.	0	9290.000	9294.900
41 OTHER TRANS.	0	27.900	525.300
42 TELEPHONE TELEGR	0	8329.900	35810.700
43 RADIO & TV	0	499.200	5651.700
44 GAS	0	455240.900	653032.400
45 ELECTRICITY	0	975740.700	1033045.500
46 WATER	0	7905.000	16439.500
47 WHOLES. EQ. SUP	0	12029.000	37201.500
48 WHOLES. GROCERY	0	7114.600	9447.400
49 WHOLES. FARM P	0	11.300	9962.900
50 WHOLES. PETRO	0	20800.600	25960.000
51 GENERAL WHOLESLE	0	32821.800	59225.400
52 LUMBERYARDS	0	7529.700	9198.600
53 AUTO TRACTOR DLR	0	61540.200	81484.000
54 HARDWARE HOME FR	0	10007.200	16059.300
55 DEPT. CLOTH VAR.	0	50029.600	50794.200
56 FOOD STORES	0	78764.900	78813.600
57 GAS. SERV. STA.	0	2900.900	8346.800

58 EAT & DRINK PLCS	0	21493.200	21915.600
59 OTHER RETAIL	0	89509.600	90335.600
60 BANK & CREDIT AG	0	54537.400	78939.100
61 I'S. CARRIERS	0	5464.300	10998.900
62 FIRE NOT CLASSFD	0	4348.000	9402.000
63 LEGAL SERVICES	0	5119.700	10122.300
64 LODGING SERVICES	0	7954.800	8209.200
65 PERSONAL SERV	0	16216.400	21223.600
66 OTHER BUS. SERV.	0	8071.600	21615.500
67 REPAIR SRV.	0	2524.000	14123.500
68 MEDICAL SERV.	0	34364.800	35763.900
69 EDUCATION SRV.	0	108507.900	108655.100
70 BOOKKEEPING SERV	0	1521.200	6469.220
71 ALL OTHER SVCS.	0	65411.700	86264.300
72 HOUSEHOLDS	0	137937.800	1246266.200
73 FEDERAL GOV'T.	0	120734.900	441186.000
74 STATE GOV'T.	0	22088.300	98017.200
75 LOCAL GOV'T.	0	73782.200	221999.000
76 IMPORTS	0	207117.600	4289025.100
77 GROSS SAVINGS	0	49862.300	317165.500
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TOTAL INPUTS	294903.500	6613659.000	13719590.300
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DIRECT INPUT REQUIREMENTS :      SOUTHEAST      TEXAS, 1967

	1	2	3	4	5	6	7	8
1 CROP PRODUCTION	0.03404523	0.05051002	0.00043174	0	0	0	0	0
2 ANIM. & POULT.	0	0.02176145	0.00002562	0	0.00403564	0	0	0
3 AGRI. SUPP/SVCS.	0.18570400	0.02336590	0.00515347	0	0	0	0	0
4 FORESTRY	0	0	0.00000427	0	0	0	0	0
5 FISHERIES	0	0	0	0	0.00203780	0	0	0
6 CRUDE PETROLEUM	0	0	0.00049101	0	0	0.00069536	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0.10641009	0.02322973	0.00595980
8 OTHER MINING	0	0	0.00021349	0	0	0.00119188	0	0
9 RES. COM. & INDS	0.01079849	0.01917146	0.00033730	0	0	0.00012169	0	0
10 FACILITY CONSTR.	0	0	0	0	0	0.00004020	0	0
11 MEAT & POULTRY	0	0	0.00006831	0	0	0	0	0
12 DAIRIES	0	0	0.00000854	0	0	0	0	0
13 GRAIN PRODUCTS	0	0.24452783	0.00007427	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0.00710358	0.00009820	0	0.00605346	0	0.00161065	0
16 BEVERAGES	0	0	0.00100337	0	0	0	0	0
17 TEX. PRD. & APPR	0.00068990	0.00379116	0.00028607	0	0.00215767	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0.00028796	0.00148261	0.00012382	0	0	0	0	0
20 MILLWORK	0.00028796	0.00069254	0.00009393	0	0	0	0	0
21 FURN. & FIXTURES	0	0	0.00011101	0.00224530	0	0	0	0
22 PAPER PRODUCTS	0	0.00749391	0.00003416	0.00013075	0	0.00909178	0	0
23 PRINT & PUBLISH	0	0	0.00096067	0.00004058	0	0.00027923	0	0
24 CHEMICALS	0.09101926	0.01863880	0.16458236	0.00003607	0.00019978	0.00162539	0.00026844	0.00459367
25 PETRO. PRODUCTS	0.02076909	0.00317332	0.03213759	0.00752941	0.00934990	0.00653091	0.01135122	0.00205442
26 RUB. PLAS. LEATH	0.00223769	0.00120873	0.00021775	0	0	0.00000109	0.00002876	0.00005581
27 GLASS CLAY STONE	0.01252025	0.00000323	0.00024764	0.00004058	0.00001998	0.00004020	0	0.00126614
28 CEMENT CONCRETE	0	0	0.00004270	0	0	0.00010974	0	0
29 METAL SMELT CAST	0.00183574	0.00179422	0.00009393	0.00030208	0.00005994	0.00028901	0.00023009	0.03494257
30 FABR. METAL PROD	0	0	0.00000427	0	0	0	0	0.00036624
31 MACH METAL PROD.	0.00349751	0.00818831	0.00021775	0.00072138	0.00080707	0.00247395	0.00027003	0.00001046
32 MACHINERY	0.02682224	0.00368226	0.02399119	0.01418414	0	0.03509131	0	0.00171609
33 ELECTRICAL APPAR	0.00010199	0.00003127	0.00014944	0.00014428	0.00043953	0	0.00032596	0.00011859
34 TRANS. EQUIP.	0.00830884	0.00114835	0.00974670	0.00000902	0.01931914	0.00024989	0.00003935	0.00003488
35 OTHER MANUFACT.	0.00079189	0.00065844	0.00007259	0.00113167	0.00007991	0	0	0
36 RAILROAD TRANS.	0	0	0	0.00100092	0	0	0.00011505	0
37 MOTOR TRANS.	0	0.00481982	0.00097775	0.00148785	0.00005994	0.01621592	0.02625928	0
38 WATER TRANS.	0	0	0	0.00985586	0	0.00072143	0	0
39 AIR TRANS.	0	0	0.00302292	0.00341754	0	0.00195026	0.00342262	0
40 PIPELINE TRANS.	0	0	0	0.00022092	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0.00022056	0	0.00419953
42 TELEPHONE TELEGR.	0.00299958	0.00401113	0.00467954	0	0.00043953	0.00190136	0.00445804	0
43 RADIO & TV	0	0	0.00087101	0	0	0	0	0
44 GAS	0.00143980	0.00494921	0.00076000	0.00005410	0.00005994	0.00119080	0.00021092	0.06757959
45 ELECTRICITY	0.00599916	0.00966121	0.00383415	0.00001353	0.00003966	0.01145490	0.00079574	0.00044995
46 WATER	0	0	0.01226245	0	0.00015983	0.00052369	0.00025885	0.00614233
47 WHOLES. EQ. SUP	0.00277161	0.00125078	0.00979886	0.00202437	0.00455508	0.00542269	0.00826960	0
48 WHOLES. GROCERY	0	0	0.00001281	0	0	0	0.00023968	0
49 WHOLES. FARM P	0.01667167	0.10233120	0.00139619	0	0	0	0	0
50 WHOLES. PETRO	0.01050453	0.00173384	0.02445231	0.00323719	0.00643305	0.00659719	0.00779437	0
51 GENERAL WHOLESLE	0.04051833	0.01493822	0.00806965	0.00414794	0	0.00325948	0.00098749	0
52 LUMBERYARDS	0.00039594	0.000575036	0.00005978	0	0	0.00319646	0	0
53 AUTO TRACTOR DLR	0.05260664	0.01201613	0.00957683	0.00206136	0.00019978	0.00559870	0.00038349	0
54 HARDWARE HOME FR	0.00393944	0.00491579	0	0	0	0	0.00003835	0
55 DEPT. CLOTH VAC.	0	0	0.00032022	0	0	0	0	0
56 FOOD STORES	0	0	0.00026472	0	0.00849083	0	0	0
57 GAS. SERV. STA.	0.02151899	0.00355071	0.00187865	0	0	0.00308673	0.00089161	0

58 EAT & DRINK PLCS	0	0	0.00042697	0	0	0	0.01025828	0
59 OTHER RETAIL	0	0	0.00034157	0	0	0	0.00025885	0
60 BANK & CREDIT AG	0.04073430	0.02666537	0.00397078	0.00032011	0.00001998	0.00010974	0.00528253	0
61 INS. CARRIERS	0.00305357	0.00536111	0.00089236	0.00014878	0.00079914	0.00107563	0.00005752	0
62 FIRE NOT CLASSFD	0	0	0	0	0	0	0	0
63 LEGAL SERVICES	0	0	0.00017506	0	0.00031965	0.00161670	0.00015235	0
64 LODGING SERVICES	0	0	0.00361640	0	0	0.00001630	0.00761358	0
65 PERSONAL SVCS	0	0	0.00001281	0	0	0.00003151	0	0
66 OTHER BUS. SERV.	0.00054592	0.00049492	0.03251769	0.00012173	0	0.00292484	0.02973942	0
67 REPAIR SERV.	0.00119983	0.00084104	0.00522179	0	0	0.00002173	0.00380611	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0	0	0.00054652	0	0.00083909	0.01192753	0.00053688	0
71 ALL OTHER SVCS.	0	0	0.00403909	0	0	0.00310846	0.00209959	0
72 HOUSEHOLDS	0.18699382	0.09435854	0.33594921	0.78827036	0.87123690	0.51522829	0.60571779	0.67977565
73 FEDERAL GOV'T.	0.00995861	0.00473356	0.02095973	0.00279535	0.00667279	0.06023955	0.03663260	0.07012930
74 STATE GOV'T.	0.00089987	0.00103513	0.00216471	0.00639323	0.00071922	0.06054485	0.00248308	0.02600986
75 LOCAL GOV'T.	0.05003300	0.06816760	0.0272831	0.12141733	0.00059935	0.00694378	0.00032596	0
76 IMPORTS	0.01972524	0.11152768	0.24400647	0.02394983	0.03913773	0.10196416	0.16816866	0.07045717
77 GROSS SAVINGS	0.12772212	0.09826184	0.01922198	0.00154646	0.01260639	0.03866505	0.04227945	0.02423796
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : - SOUTHEAST TEXAS, 1967

	9	10	11	12	13	14	15	16
1 CROP PRODUCTION	0	0	0.06194319	0	0.00632148	0	0	0.00002927
2 ANIM. & POULT.	0	0	0.58926949	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0.00549610	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0.05063598	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0.00019711	0	0	0	0	0	0	0
9 RES. COM. & INDS	0.00032388	0.00008734	0.00654585	0	0.01065713	0.04005337	0	0
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0.00296495	0	0.00275837	0	0	0
12 DAIRIES	0	0	0	0.07612812	0	0	0	0
13 GRAIN PRODUCTS	0	0	0.00000937	0	0.01224431	0.00110212	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0.00011440	0	0.00082438	0	0	0.00110212	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0.18955009	0.03830915	0	0	0	0	0	0
20 MILLWORK	0.10488871	0.01326494	0.02613657	0	0	0	0	0
21 FURN. & FIXTURES	0.00497490	0	0	0	0	0	0	0
22 PAPER PRODUCTS	0.01377604	0	0.00220147	0	0	0.00017402	0.01760824	0
23 PRINT & PUBLISH	0.00002628	0.00005259	0.00005397	0.00137483	0.00065864	0.00104411	0.00673559	0.00037403
24 CHEMICALS	0.01180495	0.05860803	0.00000703	0	0.00251819	0.01351547	0.00051770	0.00037403
25 PETRO. PRODUCTS	0.00185984	0	0.00012178	0.00023302	0.00410042	0.02965573	0	0.01184937
26 RUB. PLAS. LEATH	0.00005648	0.00012866	0	0	0	0	0	0
27 GLASS CLAY STONE	0.03605878	0.03551999	0.00006792	0.00012816	0.00011142	0.00001450	0	0.00091264
28 CEMENT CONCRETE	0.04182671	0	0	0	0	0	0	0
29 METAL SMELT CAST	0.03148965	0.02280443	0.00048011	0.00088548	0.00078740	0.00008701	0	0.00553310
30 FABR. METAL PROD	0.00675275	0	0	0	0	0	0	0
31 MACH. METAL PROD.	0.00110304	0.00026107	0.00057613	0.00209719	0.00014835	0.00010151	0.00009830	0.00909649
32 MACHINERY	0.02630759	0.03215985	0	0	0	0.00047855	0	0
33 ELECTRICAL APPAR	0.00009662	0.00010518	0	0	0	0	0	0
34 TRANS. EQUIP.	0.00510630	0.01275500	0.00001171	0	0.00004705	0.00417646	0	0.00154102
35 OTHER MANUFACT.	0.00091907	0.00153451	0	0	0	0	0	0
36 RAILROAD TRANS.	0	0	0	0	0	0	0.00007208	0
37 MOTOR TRANS.	0.00181573	0.00024229	0.01155770	0	0.00440746	0	0	0
38 WATER TRANS.	0	0	0	0	0.01608069	0.00659822	0.02589794	0.00043388
39 AIR TRANS.	0.00135503	0.00225950	0.00004216	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0	0	0
42 TELEPHONE TELEGR	0.00374586	0.00474439	0.00137240	0.00411283	0.00281037	0.0104411	0.00341418	0.00438347
43 RADIO & TV	0.00050398	0.00053435	0	0.00365844	0	0	0.02112072	0.00011949
44 GAS	0.00030455	0.00057286	0.00060892	0	0.00982269	0.0295832	0.00074050	0.00130144
45 ELECTRICITY	0.00238542	0.00154157	0.00405866	0.02055249	0.01153615	0.0022057	0.04112740	0.00882718
46 WATER	0.00016928	0.00031404	0.00258087	0.00167775	0.00308419	0.00059006	0.00564879	0.00511677
47 WHOLES. EQ. SUP	0.00094767	0.00081139	0	0.00012816	0.00007676	0.00295832	0	0.00482399
48 WHOLES. GROCERY	0	0	0	0.00004660	0	0.00011601	0	0
49 WHOLES. FARM P	0	0	0	0	0.00287224	0	0	0
50 WHOLES. PETRO	0	0	0.00003747	0	0.00001486	0.00091360	0	0.00468289
51 GENERAL WHOLESLE	0	0	0.00090401	0.00165445	0.00148071	0.00015952	0.00334865	0.00122681
52 LUMBERYARDS	0	0	0	0	0	0	0	0
53 AUTO TRACTOR DLR	0.00217671	0.00448425	0.00004450	0.00815575	0.00019066	0.00295832	0	0.00640341
54 HARDWARE HOME FP	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0.00225324	0.00379964	0.00103282	0	0.00127024	0.00001450	0.00000655	0.03771750

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58 EAT & DRINK PLCS	0.00105976	0	0	0.01998159	0	0.00052206	0	0
59 OTHER RETAIL	0.00379230	0.00359398	0.00025762	0.00020972	0.00038380	0.00021752	0.00054391	0
60 BANK & CREDIT AG	0.01338414	0.00676442	0.00002342	0	0.00043219	0	0.00054391	0
61 INS. CARRIERS	0.00114865	0.00442039	0.00018736	0.00116511	0.00061161	0.00060907	0.00342728	0.00079295
62 FIRE NOT CLASSFD	0.00049780	0.00086210	0	0	0.00089347	0.00002900	0	0
63 LEGAL SERVICES	0.00136276	0.00029019	0.00009836	0.00126318	0.00112910	0.00017402	0.00002621	0.00055357
64 LODGING SERVICES	0	0	0	0	0	0	0	0.00246862
65 PERSONAL SERVS	0	0	0.00015691	0	0	0	0.00002621	0
65 OTHER BUS. SERV.	0.00156915	0.00385975	0.00054568	0	0.00239934	0.01332695	0.00022936	0.00519158
67 REPAIR SERV.	0.00007575	0.00012678	0	0	0.00139652	0.00400244	0.00000655	0
69 MEDICAL SERV.	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0.00030455	0.00036062	0.00007494	0.00052430	0.00041846	0.00015952	0.00034076	0.00110714
71 ALL OTHER SVCS.	0.00099026	0.00220973	0.00026464	0	0.00165899	0	0	0
72 HOUSEHOLDS	0.28196445	0.48420087	0.08155264	0.18617251	0.11905086	0.20022332	0.16005347	0.27810111
73 FEDERAL GOV'T.	0.00015691	0.03292898	0.00833981	0.01415605	0.02248794	0.02600133	0.00811932	0.07280161
74 STATE GOV'T.	0.00181882	0.00324087	0.00081735	0.00122336	0.00637100	0.00713478	0.00220185	0.01351008
75 LOCAL GOV'T.	0.00575329	0.00187540	0.00063468	0.00319239	0.02221804	0.00552510	0.00343384	0.01554482
76 IMPORTS	0.19069255	0.20203280	0.18976177	0.61007352	0.68852583	0.58640042	0.63584296	0.36339562
77 GROSS SAVINGS	0.00550748	0.01819809	0.00383149	0.04110499	0.04054365	0.03515183	0.00817174	0.14092072
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000



DIRECT INPUT REQUIREMENTS : SOUTHEAST TEXAS, 1967

	17	18	19	20	21	22	23	24
1 CROP PRODUCTION	0.00005547	0	0	0.00002368	0	0	0.00007267	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0.54069527	0.09283231	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0.00200165	0	0.00214478
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0.00043691
8 OTHER MINING	0	0	0.00003734	0.00230126	0	0	0	0.00115634
9 RES. COM. & INDS	0.00044378	0	0.000070947	0.02148786	0	0.02281742	0	0.00779734
10 FACILITY CONSTR.	0	0	0	0	0	0	0.00003028	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PRD. FOOD & KIN	0	0	0.00003734	0	0	0	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0.01505178	0	0	0.02389180	0	0	0
18 LOGGING	0	0	0.06302363	0	0	0.01691275	0	0
19 LUMBER MILLS	0	0.01357988	0.00297893	0.18503066	0.00320861	0.00183178	0	0.00001293
20 MILLWORK	0	0.00002959	0.00001245	0.14681636	0.00997137	0	0	0.00000019
21 FURN. & FIXTURES	0	0	0	0	0	0	0	0.00005519
22 PAPER PRODUCTS	0	0.01207840	0	0	0	0.02887355	0.00019378	0.00364867
23 PRINT & PUBLISH	0.00144228	0.00042160	0.00008021	0.00055401	0.00320861	0.00003931	0.00066005	0.00000405
24 CHEMICALS	0	0.00003698	0.00085468	0.00003788	0.00197453	0.00123620	0.00021194	0.06938923
25 PETRO. PRODUCTS	0	0.00414201	0.00664520	0.02246329	0.00078981	0.00584430	0	0
26 RUB. PLAS. LEATH	0	0	0	0	0	0	0	0
27 GLASS CLAY STONE	0	0.00002219	0.00006362	0.00009470	0.00819429	0.00172331	0.00062978	0.00000019
28 CEMENT CONCRETE	0	0	0	0	0	0	0	0
29 METAL SMELT CAST	0	0.00022929	0.00044670	0.00069132	0.01949847	0	0.00587388	0.00000135
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0.00011094	0.00020710	0.00053798	0.00084758	0.00034554	0.00075420	0.00711526	0.00000174
32 MACHINERY	0	0	0.00008574	0	0.00078981	0.00250616	0	0
33 ELECTRICAL APPAR	0	0	0	0	0	0	0	0
34 TRANS. EQUIP.	0	0.00184172	0.00017011	0.00031725	0.00320861	0	0.00005450	0
35 OTHER MANUFACT.	0	0	0	0.00000474	0	0.00005424	0.00859887	0
36 RAILROAD TRANS.	0	0	0.00059883	0	0.00987264	0.00266989	0	0
37 MOTOR TRANS.	0.01730737	0	0.02171965	0.08445989	0.00078981	0.02839872	0.00420860	0.00807715
38 WATER TRANS.	0	0	0.00114372	0	0	0	0	0.00597454
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0.00016373	0.00065400	0
42 TELEPHONE TELEGR	0.00371665	0.00220414	0.00118659	0.00547377	0.02004147	0.00348345	0.00441449	0.00071943
43 RADIO & TV	0	0	0	0	0	0	0	0
44 GAS	0.00554723	0	0.00365106	0.00204556	0.00039491	0.01444240	0.00147755	0.01384959
45 ELECTRICITY	0.01281411	0	0.00804892	0.01048824	0.00133281	0.00607250	0.01951701	0.04690610
46 WATER	0.00133134	0	0.00011617	0.00035987	0.01135354	0.00487417	0.00156233	0.00001293
47 WHOLES. EQ. SUP	0	0.00335059	0.00334542	0.00156732	0	0.00786335	0.00000606	0.01256473
48 WHOLES. GROCERY	0	0	0	0	0	0	0	0
49 WHOLES. FARM P	0	0	0	0	0	0	0	0
50 WHOLES. PETRO	0	0.00126479	0.00203298	0.00687062	0	0	0	0
51 GENERAL WHOLESLE	0	0.00031065	0.00084085	0.00125007	0	0.00669060	0.01091814	0.00000174
52 LUMBERYARDS	0	0.00173077	0.00787744	0.00079076	0	0	0	0.00001293
53 AUTO TRACTOR DLR	0	0.00762574	0.00070670	0.00130689	0.00666403	0	0.00079328	0
54 HARDWARE HOME FR	0.00171964	0	0.00014660	0	0	0.00000205	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0.00066567	0.02362426	0.00042319	0.00563003	0.00266561	0	0.00026644	0.00000444

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58 EAT & DRINK PLCS	0	0	0	0	0	0	0	0
59 OTHER RETAIL	0.00016642	0.00019970	0.00038585	0.00019887	0.00197453	0.00040831	0.00112633	0.00000193
60 BANK & CREDIT AG	0	0.00339497	0.00024479	0.00015152	0	0.00311812	0.00046022	0
61 INS. CARRIERS	0.00160870	0.00166420	0.00040798	0.00264692	0.00725639	0.00052293	0.00147755	0.00204211
62 FIRE NOT CLASSFD	0	0	0	0	0	0.00007266	0	0
63 LEGAL SERVICES	0	0.00089497	0.00023787	0.00127848	0.00587422	0	0.00059950	0.00001293
64 LODGING SERVICES	0	0	0	0	0	0	0.00003028	0
65 PERSONAL SERV	0	0	0	0	0	0	0	0
66 OTHER BUS. SERV.	0.00027736	0.00005917	0.00024064	0.00173304	0.00157962	0.00145724	0.00397849	0.00203768
67 REPAIR SERV.	0	0.01088757	0.00339521	0.00757142	0.56303682	0	0.01078492	0.00008993
68 MEDICAL SERV.	0	0	0	0.00051139	0	0	0	0
69 EDUCATION SERV.	0	0	0.00033606	0	0	0	0	0
70 BOOKKEEPING SERV	0.00549176	0.00034024	0.00012585	0.00038828	0.01624050	0	0.00075089	0.00001274
71 ALL OTHER SVCS.	0.00332834	0	0.00172457	0.00030778	0	0.00080025	0.00235799	0.00125900
72 HOUSEHOLDS	0.49780884	0.10698225	0.20399597	0.15167457	0.01466087	0.11969296	0.25645218	0.03133261
73 FEDERAL GOV'T.	0.03772120	0.01778846	0.04250302	0.02281369	0.23970777	0.00351415	0.02870327	0.00854928
74 STATE GOV'T.	0.01253675	0.01053254	0.00764509	0.00741989	0.02147300	0.00535616	0.00473543	0.00114341
75 LOCAL GOV'T.	0.00504798	0.00059172	0.03811207	0.00547377	0	0.00374952	0.00437816	0.00042398
76 IMPD'TS	0.37837688	0.16418639	0.47048590	0.25553414	0	0.70205139	0.59759716	0.74977195
77 GROSS SAVINGS	0.01248128	0.05403107	0.00980530	0.04133265	0	0	0.01926873	0.03040998
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS :      SOUTHEAST      , TEXAS, 1967

	25	26	27	28	29	30	31	32
1 CROP PRODUCTION	0	0.00003159	0.00000951	0	0	0.00000988	0.00000335	0.00000789
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0.02514216	0	0	0	0	0	0	0
7 OIL/GAS FLO. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0.00006928	0	0.05426762	0.00199319	0	0	0.00162022	0.00010937
9 RES. COM. & INDS	0.00281239	0.04360158	0	0	0	0	0.00205988	0.00032087
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0.00069171
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0	0.00091286	0	0	0.00000988	0.00004502	0
16 BEVERAGES	0	0	0	0	0	0.00002717	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0.00001370	0.00001464	0.00000247	0	0.00009731
20 MILLWORK	0	0	0	0	0	0	0.00036542	0.00025249
21 FURN. & FIXTURES	0	0	0	0	0	0	0	0
22 PAPER PRODUCTS	0	0	0.00030429	0	0	0.00003458	0.00001532	0.00030509
23 PRINT & PUBLISH	0.00032076	0	0.01438705	0.00295896	0.00080759	0.00039028	0.00127979	0.00088371
24 CHEMICALS	0.02754916	0.00009478	0.01044084	0	0.00000244	0	0.00935632	0.00370315
25 PETRO. PRODUCTS	0.00023752	0	0	0.00090413	0	0.00007657	0.01705992	0.00029983
26 RUB. PLAS. LEATH	0	0.05892058	0	0	0	0.00003211	0.00153114	0.00656730
27 GLASS CLAY STONE	0.00007870	0.00001404	0.00122666	0.00008219	0	0.00089913	0.00015805	0.00022356
28 CEMENT CONCRETE	0.00005585	0	0.16058727	0.05326822	0	0	0	0.00002104
29 METAL SMELT CAST	0.00007675	0.00012988	0.00868168	0.00057535	0.01862592	0.00636801	0.00574148	0.00950095
30 FABR. METAL PROD	0	0	0	0.02776769	0	0	0.00304552	0.00463946
31 MACH METAL PROD.	0.01301596	0.00044581	0.01043133	0.00069180	0.00000488	0.00827090	0.01143591	0.00970761
32 MACHINERY	0.00071483	0	0	0	0	0.00001482	0.00046792	0.00845833
33 ELECTRICAL APPAR	0.00000321	0	0	0	0	0	0	0.00009468
34 TRANS. EQUIP.	0.00000081	0.00019658	0.00426001	0.00043152	0.00000244	0.00020255	0.00033065	0.00047361
35 OTHER MANUFACT.	0	0.00000351	0	0	0.00009027	0.00000988	0	0.00149125
36 RAILROAD TRANS.	0	0.00294515	0	0.01203449	0.00614358	0	0.00000048	0.00701578
37 MOTOR TRANS.	0.00019381	0.00200790	0.00713172	0.00984265	0.00130533	0.00403126	0.00605273	0.00590452
38 WATER TRANS.	0.00014908	0	0	0	0	0	0.00000958	0
39 AIR TRANS.	0.00006701	0	0	0	0	0	0.00076629	0.00034191
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0.00023519	0	0	0	0	0	0
42 TELEPHONE TELEGR	0.00034158	0.08615358	0.00346124	0.00582889	0.00304495	0.00633590	0.00578261	0.00726690
43 RADIO & TV	0	0	0	0	0	0	0	0
44	0	0.00742431	0.01045985	0.00120550	0.00453571	0.00078797	0.00126677	0.00501030
45 ELECTRICITY	0.00072043	0.01853796	0.01111507	0.00356172	0.03159379	0.00834906	0.00601010	0.00733528
46	0.00006506	0.00212023	0.00261496	0.00046576	0.00029522	0.00048168	0.00293641	0.00032876
47 WHOLESL. EQ. SUP	0.00000037	0.00437385	0.00027576	0.00013692	0.00350261	0.05700580	0.01431141	0.00056021
48 WHOLESL. GROCERY	0	0	0.00019018	0	0	0.00000247	0	0
49 WHOLESALE FARM P	0	0	0	0	0	0	0.00000287	0
50 WHOLESALE PETRO	0.00000244	0	0	0.00027398	0	0.03001235	0.00257760	0.00004997
51 GENERAL WHOLESLE	0.00008146	0.00017903	0.01632688	0.00108221	0.00000244	0.02982936	0.00210538	0.00070749
52 LUMBERYARDS	0	0	0	0.00002055	0.00004352	0.03000247	0	0
53 AUTO TRACTOR DLR	0.00000333	0.00081439	0.01764863	0.00178086	0.00000976	0	0.00045882	0.00036295
54 HARDWARE HOME FR	0	0	0	0	0	0.00000247	0.00009770	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0.00000247	0.00288077	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0.00000179	0.00328214	0	0.00124660	0.00019763	0.00245532	0.00150001	0.00000526

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58 EAT & DRINK PLCS	0	0	0.00240577	0	0	0.00002470	0	0
59 OTHER RETAIL	0.00000012	0.00023168	0.00025674	0.00001370	0	0.00085467	0.00012165	0.00000526
60 BANK & CREDIT AG	0	0	0	0	0	0.00230958	0	0.00023145
61 INS. CARRIERS	0.00000045	0.00316630	0.00109353	0.00160277	0.00035866	0.00050749	0.00020749	0.00070749
62 FIRE NOT CLASSFD	0	0	0.00143585	0	0	0.00000494	0.00050336	0.00001578
63 LEGAL SERVICES	0.00003401	0.00058973	0.00117911	0.00073974	0.00029522	0.00031865	0.00028544	0.00066804
64 LODGING SERVICES	0	0	0	0	0	0	0	0.00000789
65 PERSONAL SERVCS	0	0	0	0	0	0	0	0.00005260
66 OTHER BUS. SERV.	0.00001567	0.00563405	0.00012362	0.00062330	0.00024155	0.01479611	0.00034818	0.00173059
67 REPAIR SERV.	0.00001412	0.00644142	0	0.00032192	0.00404041	0.04461807	0.00135873	0.00179371
68 MEDICAL SERV.	0	0	0	0	0	0.00102511	0.01176206	0.00007627
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0.00000150	0.00080035	0.00062759	0.00051371	0	0.00049156	0.00034196	0.00008679
71 ALL OTHER SVCS.	0	0.00035454	0.00057054	0	0.00064656	0.00~21405	0.00132376	0.00745364
72 HOUSEHOLDS	0.02121402	0.18050553	0.14997528	0.10976253	0.25271618	0.27308342	0.19296355	0.24947596
73 FEDERAL GOV'T.	0.00164976	0.04599561	0.00843445	0.00721933	0.09641120	0.04923722	0.04568184	0.02359968
74 STATE GOV'T.	0.00213113	0.00613602	0.00340421	0.00389049	0.00249598	0.00361628	0.00807429	0.00110726
75 LOCAL GOV'T.	0.00580908	0.00339798	0.00823476	0.00830154	0.00060997	0.00575295	0.00187358	0.00092579
76 IMPORTS	0.87254814	0.49283019	0.44692100	0.71356946	0.54314777	0.43608770	0.60642581	0.53379780
77 GROSS SAVINGS	0.02487830	0.02230452	0.04060325	0.02827455	0.03130589	0.03770169	0.02885030	0.02144565
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS :      SOUTHEAST      TEXAS, 1967

	33	34	35	36	37	38	39	40
1 CROP PRODUCTION	0	0	0.00007579	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRIC. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLO. SVC	0	0	0	0	0	0	0	0.01826808
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	0	0	0	0.09134142	0.01076820	0.01222629	0.00020668	0.03306114
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0.00000133	0	0.00170539	0	0	0	0
16 BEVERAGES	0	0	0	0	0	0	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	0.00164963	0	0	0
20 MILLWORK	0	0	0	0	0.00007901	0	0	0
21 FURN. & FIXTURES	0	0	0.01438872	0	0	0.00006144	0	0
22 PAPER PRODUCTS	0	0	0	0	0	0	0	0
23 PRINT & PUBLISH	0	0.00020541	0.00287991	0.00141782	0	0.00003277	0	0.00687474
24 CHEMICALS	0	0.00002915	0.00002165	0	0	0.00006144	0	0.00275420
25 PETRO. PRODUCTS	0	0	0	0.02896160	0.03074200	0.11345670	0.00129172	0.00006455
26 RUB. PLAS. LEATH	0	0	0	0	0	0	0	0.01781622
27 GLASS CLAY STONE	0	0.00000795	0.00022736	0	0.00019066	0.00083557	0.00005167	0.00024745
28 CEMENT CONCRETE	0	0	0	0	0	0.00027852	0	0.02108683
29 METAL SMELT CAST	0	0.05696339	0.02716426	0.02076514	0.00135950	0.01219352	0.00036108	0
30 FABR. METAL PROD.	0	0	0.04155299	0.00460112	0	0	0	0.00032276
31 MACH METAL PROD.	0	0.00007421	0.00206791	0	0.00080824	0.00033996	0	0.00060248
32 MACHINERY	0	0.00784797	0	0.00557686	0	0.00052428	0.00046502	0.04690744
33 ELECTRICAL APPAR	0	0.00005168	0	0.00008155	0	0.00008601	0	0.00015062
34 TRANS. EQUIP.	0	0	0	0.00395445	0	0	0.00046502	0.00011834
35 OTHER MANUFACT.	0	0	0.00001083	0	0	0	0	0.01079086
36 RAILROAD TRANS.	0	0.00294179	0.00239271	0.04753920	0	0.00226094	0	0
37 MOTOR TRANS.	0	0.00002783	0.00121259	0.00776439	0	0.00241249	0	0
38 WATER TRANS.	0	0	0	0	0	0.03812882	0	0
39 AIR TRANS.	0	0	0.00040059	0.00262962	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0	0	0
42 TELEPHONE TELEGR	0.00908265	0.00532342	0.00637694	0	0.03993932	0.00179401	0.00268678	0.00061324
43 RADIO & TV	0	0	0	0	0	0.01033608	0	0
44 GAS	0.00181653	0.00452696	0.00180806	0.00122182	0.00899422	0.00018432	0.00015501	0.01153321
45 ELECTRICITY	0.01089918	0.01589207	0.00706955	0.00257812	0.01326337	0.00566464	0.00031001	0.02104380
46 WATER	0.00090827	0.00255105	0.00067126	0.00330634	0.00075435	0.00080280	0.00005167	0
47 WHOLES. EQ. SUP	0	0.00114367	0	0.00147934	0.05537457	0.16233319	0	0
48 WHOLES. GROCERY	0	0	0	0	0	0	0	0
49 WHOLESALE FARM P	0	0	0	0	0	0	0	0
50 WHOLESALE PETRO	0	0	0	0	0.02683760	0.00052428	0.00087837	0
51 GENERAL WHOLESLE	0	0.00011927	0.00300983	0.01024951	0.00551673	0.14289810	0.00129172	0.00214096
52 LUMBERYARDS	0	0	0	0	0.00480797	0.00179401	0	0
53 AUTO TRACTOR DLR	0	0.00000265	0	0	0	0.00027852	0	0
54 HARDWARE HOME FR	0	0	0	0	0	0.00226094	0	0
55 DEPT. CLOTH VAR.	0	0	0.00005413	0	0	0.00012288	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	0.00472442	0.00226279	0	0	0.00015564	0	0

58 EAT & DRNK PLCS	0	0	0	0	0	0	0	0
59 OTHER RETAIL	0.00181653	0.00016565	0.00015157	0	0	0.00003277	0	0
60 BANK & CREDIT AG	0.00635786	0.00019613	0.00120177	0.00434360	0	0.02330573	0	0
61 INS. CARRIERS	0	0.00359931	0.00205708	0.00024465	0.00024465	0.02589025	0	0
62 FIRE NOT CLASSFD	0	0	0	0.00174545	0.00421526	0.00934697	0.00010334	0.00010759
63 LEGAL SERVICES	0.00908265	0.00255636	0.00062795	0	0.00591878	0.00549671	0	0.00108662
64 LODGING SERVICES	0	0	0	0	0	0	0	0.00065627
65 PERSONAL SERV	0	0	0	0.00848260	0	0	0	0
66 OTHER BUS. SERV.	0	0.00021469	0.00189468	0.00391153	0.00060100	0.00289990	0	0
67 REPAIR SERV.	0	0.00001325	0.00499112	0	0	0.00207253	0	0
68 MEDICAL SERV.	0	0	0	0	0	0.00003277	0	0
69 EDUCATION SERV.	0	0	0	0	0	0.00065125	0	0
70 BOOKKEEPING SERV	0.00908265	0.00408036	0.00177558	0	0.00270241	0.00134346	0	0
71 ALL OTHER SVCS.	0	0	0.00645273	0	0.00084139	0.00464067	0	0
72 HOUSEHOLDS	0.57129882	0.16572973	0.16326707	0.51394643	0.31401026	0.14911979	0.85207192	0.36518951
73 FEDERAL GOV'T.	0.03360581	0.01378894	0.02612490	0.05875444	0.03071299	0.08932360	0.03063966	0.12295990
74 STATE GOV'T.	0.00454133	0.00315933	0.00551081	0.00087273	0.03772185	0.01021520	0.00015501	0.01565375
75 LOCAL GOV'T.	0.00181653	0.00511404	0.00491533	0.02017712	0.00613845	0.00724157	0.00335848	0.03135053
76 IMPORTS	0.32334242	0.69305583	0.64976614	0.07758241	0.28820472	0.12551096	0.10276945	0.05498714
77 GROSS SAVINGS	0.01634877	0.00589194	0.01761509	0.07476537	0.10104200	0.03082582	0.00268678	0.21361177
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS :      SOUTHEAST      , TEXAS, 1967

	41	42	43	44	45	46	47	48
1 CROP PRODUCTION	0	0	0	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0.03504668
7 OIL/GAS FLO. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	0	0	0.01226180	0.00313262	0.00184087	0.02806046	0	0
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0.00641281
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0.00002117
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0.00064568
15 PROD. FOOD & KIN	0	0	0.00015924	0	0	0	0	0
16 BEVERAGES	0	0	0	0	0	0	0.00000806	0
17 TEX. PRD. & APPR	0	0	0	0.00021056	0.00027162	0.00037106	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	0.00012274	0.00001217	0	0
20 MILLWORK	0	0	0.00005308	0	0.00000600	0.00015816	0	0
21 FURN. & FIXTURES	0	0	0	0	0.00000203	0	0	0
22 PAPER PRODUCTS	0	0	0	0.00004012	0.00024742	0.00043797	0.00000269	0
23 PRINT & PUBLISH	0	0.00161684	0	0.00088413	0.00149684	0.00040147	0.00209669	0
24 CHEMICALS	0	0	0	0.00003216	0.00188007	0.00830926	0.00000269	0
25 PETRO. PRODUCTS	0	0	0.08880514	0.00593324	0.01068694	0.00083944	0.00398102	0
26 RUB. PLAS. LEATH	0	0	0	0.00000750	0.00003417	0.00059613	0	0
27 GLASS CLAY STONE	0	0	0.00005308	0	0.00001607	0.01895435	0.00002150	0.00002117
28 CEMENT CONCRETE	0	0	0	0	0.00033096	0.00003041	0	0
29 METAL SMELT CAST	0	0	0.13134101	0.00000995	0.00018005	0.0013564	0.00016128	0.00014819
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0	0	0.00049543	0	0.00001907	0.00091244	0.00003494	0.00017994
32 MACHINERY	0	0	0	0.00001240	0.00002410	0.00042580	0	0
33 ELECTRICAL APPAR	0	0	0.00007078	0.00000567	0.00000126	0.00017640	0.00017472	0
34 TRANS. EQUIP.	0	0	0	0.00002220	0.00004221	0	0.00009130	0
35 OTHER MANUFACT.	0	0	0.00201709	0	0.00000803	0.00038322	0	0
36 RAILROAD TRANS.	0	0.00098295	0.000042465	0.00052739	0.00275622	0	0.00498367	0.01234202
37 MOTOR TRANS.	0	0.00106672	0	0.00070686	0.00075389	0	0	0.01561276
38 WATER TRANS.	0	0	0	0	0	0	0	0
35 AIR TRANS.	0	0.00063947	0.00125626	0	0.00000707	0	0.00013172	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0.01284569	0	0	0	0	0
42 TELEPHONE TELEGR	0.00647249	0	0	0.00440039	0.00315359	0.00141732	0.00709111	0.00817156
43 RADIO & TV	0	0	0	0.00022740	0.00058119	0	0.00336546	0
44 GAS	0.00076147	0.00095223	0	0.02563012	0.15858150	0	0.00005645	0.00073036
45 ELECTRICITY	0.00133257	0.00775187	0.01429658	0.00173100	0	0.03574926	0.00315847	0.08297521
46 WATER	0	0.00092430	0.00051312	0.00044577	0.00265061	0.04723380	0.00002957	0.00635989
47 WHOESL. EQ. SUP	0.03312393	0	0	0.00005451	0.00131369	0.03228200	0.00153220	0.00000269
48 WHOESL. GROCERY	0	0	0.00001769	0	0	0	0	0
49 WHOLESAL FARM P	0	0	0	0	0	0	0	0
50 WHOLESAL PETRO	0	0	0	0.00033184	0.00051508	0.00375316	0.01217693	0
51 GENERAL WHOESLE	0	0	0.00176938	0.00433608	0.00260434	0.00170321	0.00030644	0.00028579
52 LUMBERYARDS	0	0	0	0	0.00003117	0	0	0
53 AUTO TRACTOR OLR	0	0	0	0.00417008	0.01141015	0	0.00377673	0
54 HARDWARE HOME FR	0	0	0	0.00001730	0.00021529	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0.00002957	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	0	0	0.00132000	0.00066289	0	0	0

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58 EAT & DRINK PLCS	0	0	0.00139781	0	0	0	0	0
59 OTHER RETAIL	0	0	0	0	0	0	0.00001075	0
60 BANK & CREDIT AG	0	0	0.00226481	0.00660932	0.00429526	0	0.00417994	0.00508076
61 INS. CARRIERS	0.00647249	0.00000558	0	0.00015283	0.00024001	0.00049272	0.00009408	0
62 FIRE NOT CLASSFD	0.00171331	0.00102204	0.00093777	0.00130698	0.00050995	0	0.00055374	0.00175710
63 LEGAL SERVICES	0.00628212	0	0.00134473	0.00100271	0.00046058	0	0.00038977	0.00363063
64 LODGING SERVICES	0	0	0.00092008	0	0	0	0	0
65 PERSONAL SERVS.	0	0	0	0	0	0	0.00043815	0
66 OTHER BUS. SERV.	0.07709880	0.00182068	0.05247978	0.00335558	0.00095417	0	0.00038439	0
67 REPAIR SERV.	0	0	0.01178406	0.00115645	0	0	0.00299988	0.01325232
68 MEDICAL SERV.	0	0	0	0	0.00122725	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0.00019037	0	0.00063698	0.00150238	0.00036329	0	0.00015053	0.00173593
71 ALL OTHER SVCS.	0	0	0.00904153	0.00539789	0.00033300	0	0.00098383	0
72 HOUSEHOLDS	0.31639063	0.24879715	0.48695083	0.15391763	0.08800338	0.36077740	0.43962743	0.67655651
73 FEDERAL GOV'T.	0.03940605	0.17082325	0.01109401	0.09722917	0.14041356	0.00421546	0.02743438	0.04688062
74 STATE GOV'T.	0.00399772	0.02284792	0.01068705	0.02709605	0.01694679	0	0.00622556	0.01477655
75 LOCAL GOV'T.	0.00951837	0.04206005	0.00766141	0.06742820	0.04998425	0	0.03398909	0.01477655
76 IMPORTS	0.48810204	0.34662266	0.06730718	0.43077449	0.48366166	0.29441893	0.45990837	0.03545949
77 GROSS SAVINGS	0.00913764	0.15206628	0.06111195	0.14888113	0.01013973	0.15653152	0.00941360	0.02914029
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000



DIRECT INPUT REQUIREMENTS :      SOUTHEAST      , TEXAS, 1967

	49	50	51	52	53	54	55	56
1 CRDP PRODUCTION	0	0.00000770	0	0	0	0	0	0
2 ANIM. & POULT.	0	0.00003082	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	0.05631894	0	0	0	0	0	0	0.00174843
10 FACILITY CONSTR.	0	0	0	0	0.01702420	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0.00000385	0	0	0	0	0	0
15 PROD. FOOD & KIN	0.00112417	0	0	0	0	0	0	0
16 BEVERAGES	0	0.00010015	0	0	0	0	0	0
17 TEX. PRD. & APPR	0	0.00060478	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0.00000770	0	0	0	0.00128275	0	0
20 MILLWORK	0	0.00048921	0	0	0	0.00002491	0	0.00033877
21 FURN. & FIXTURES	0	0.01086672	0	0	0	0	0	0
22 PAPER PRODUCTS	0	0.00010786	0	0	0	0.00838766	0.00367759	0.00122314
23 PRINT & PUBLISH	0	0.00199923	0.00530347	0.00260909	0.00166045	0.08871495	0.01372204	0.00720180
24 CHEMICALS	0	0.00030431	0	0	0	0	0.04132558	0
25 PETRO. PRODUCTS	0	0.04779276	0	0	0	0	0	0
26 RUB. PLAS. LEATH	0	0.00088213	0	0	0.00420328	0	0	0
27 GLASS CLAY STONE	0	0.00048536	0.00009455	0.00008697	0.00130823	0.00023040	0.00018900	0.00013069
28 CEMENT CONCRETE	0	0	0	0	0	0	0	0
29 METAL SMELT CAST	0	0.00189137	0.00066526	0.00063053	0.00952825	0.00166259	0.00134267	0.00092877
30 FABR. METAL PRD	0	0.00000770	0	0	0	0	0	0
31 MACH METAL PROD.	0	0.00909091	0.00080033	0.00076099	0.01145992	0.00199261	0.00161436	0.00111656
32 MACHINERY	0	0.00004237	0	0	0.00105051	0.00712983	0	0
33 ELECTRICAL APPAR	0	0.00012327	0	0	0	0	0	0
34 TRANS. EQUIP.	0	0.00015023	0	0.00059792	0	0.00187430	0.00003347	0
35 OTHER MANUFACT.	0	0.00015794	0	0	0	0	0	0
36 RAILROAD TRANS.	0	0.00833590	0.02582507	0	0.00189117	0	0	0
37 MOTOR TRANS.	0.00389445	0.00635208	0	0	0.01024618	0	0.00454186	0
38 WATER TRANS.	0	0.00253852	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0.00189117	0	0	0
42 TELEPHONE TELEGR	0.02329643	0.04763097	0.00830049	0.00269621	0.01765500	0	0.00390596	0.00227245
43 RADIO & TV	0	0	0	0.00020655	0.00084066	0.02183159	0.00274441	0.00020935
44 GAS	0.00167622	0	0	0.00144587	0	0	0	0.01485911
45 ELECTRICITY	0.01961276	0	0	0.00332659	0	0.01770936	0	0.02499822
46 WATER	0.00317177	0	0.00092190	0.00036962	0	0	0	0.00419598
47 WHOLES. EQ. SUP	0	0.00229969	0	0.00004348	0.00011413	0.00011831	0	0
48 WHOLES. GROCERY	0	0.00007319	0	0	0	0	0	0
49 WHOLESALE FARM P	0	0.00001926	0	0	0	0	0	0
50 WHOLESALE PETRO	0	0	0	0	0	0	0	0
51 GENERAL WHOLESLE	0.04334079	0.00651772	0.00125284	0.00113061	0.01795322	0.00249077	0.00252982	0.00175097
52 LUMBERYARDS	0	0	0	0	0	0.00141974	0	0
53 AUTO TRACTOR DLP	0	0	0	0.00250038	0	0.00776497	0.00014175	0
54 HARDWARE HOME FR	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	0.00101695	0	0	0	0	0	0
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SEPV. STA.	0.01176364	0.00051618	0	0	0	0	0	0

58 EAT & DRINK PLCS	0	0.00035824	0	0	0	0	0	0	0
59 OTHER RETAIL	0	0	0	0	0	0	0	0	0
60 BANK & CREDIT AG	0.00707625	0.00793529	0.00530347	0.00016481	0.00534093	0.02069829	0.02356568	0.00926490	0
61 INS. CARRIERS	0.01259673	0.00019260	0.00267791	0.00079360	0.00029576	0.00194280	0.00142733	0.00142733	0
62 FIRE NOT CLASSFD	0.00056209	0.00460324	0.00140143	0.00002174	0.00545385	0.00127029	0.00580381	0.00369099	0
63 LEGAL SERVICES	0	0.00198392	0.00115322	0.00129368	0	0.00323800	0	0.00054178	0
64 LODGING SERVICES	0	0.00190678	0	0	0	0	0	0	0
65 PERSONAL SERVCS	0	0	0.00276739	0	0.00025404	0	0	0.03461205	0
66 OTHER BUS. SERV.	0.01088037	0.00212250	0.00070409	0.01418694	0.00010677	0.00538006	0.00506160	0.00763066	0
67 REPAIR SERV.	0	0.00020031	0	0.00055443	0.00114133	0	0.00967236	0.00926490	0
68 MEDICAL SERV.	0	0	0	0	0	0	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0	0	0
70 BOOKKEEPING SERV	0.00156581	0.00126733	0.00088476	0.00153284	0.00147882	0.00166881	0.00280347	0.00274064	0
71 ALL OTHER SVCS.	0.00451676	0.11953005	0.00161417	0.00147849	0.00000245	0.04470307	0.00290584	0	0
72 HOUSEHOLDS	0.49164400	0.43541217	0.58419023	0.55644337	0.45227652	0.47297205	0.44974426	0.39331790	0
73 FEDERAL GOV'T.	0	0.05358629	0.06419543	0.06731459	0.02913946	0.03376237	0.03139335	0.14608900	0
74 STATE GOV'T.	0.03649540	0.01230354	0.06361966	0.00480508	0.00900054	0.00463283	0.00592194	0.04863247	0
75 LOCAL GOV'T.	0.01743468	0.01210709	0.03301285	0.00977323	0.00853419	0.00463283	0.01830524	0.04863247	0
76 IMPURTS	0.18991458	0.13174114	0.11439686	0.29815407	0.35854646	0.23425679	0.34755937	0.23207289	0
77 GROSS SAVINGS	0.06311415	0.06430277	0.08091461	0.02605831	0.03160252	0.00820708	0.02006725	0.00253510	0
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTHEAST TEXAS, 1967

	57	58	59	60	61	62	63	64
1 CROP PRODUCTION	0	0	0	0	0	0	0	0
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INDS	0	0.00174305	0	0.00680145	0	0.08957669	0	0.03253667
10 FACILITY CONSTR.	0	0	0	0	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0	0	0	0
12 DAIRIES	0	0	0	0	0	0	0	0
13 GRAIN PRODUCTS	0	0	0	0	0	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0	0	0	0
15 PROD. FOOD & KIN	0	0	0	0	0	0.00007445	0	0
16 BEVERAGES	0	0	0	0	0	0.01252925	0	0
17 TEX. PRO. & APPR	0	0	0	0	0	0	0	0
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	0	0	0	0
20 HILLWORK	0	0	0	0	0	0	0	0
21 FURN. & FIXTURES	0	0	0.00171915	0.00003800	0	0	0	0.00060907
22 PAPER PRODUCTS	0	0.00121831	0.02487059	0	0	0.00002127	0	0.00084252
23 PRINT & PUBLISH	0	0.00718210	0	0.00003040	0.02992117	0	0	0.00651708
24 CHEMICALS	0	0	0	0	0	0	0.00005928	0
25 PETRO. PRODUCTS	0	0	0	0	0	0	0	0
26 RUB. PLAS. LEATH	0.11575694	0	0.00034316	0	0	0	0	0
27 GLASS CLAY STONE	0	0.00013233	0	0.00017862	0.00105465	0.00008509	0.00010867	0.00020708
28 CEMENT CONCRETE	0	0	0.00242983	0	0	0	0	0
29 METAL SMELT CAST	0	0.00092628	0	0.00126933	0.00745529	0.00059562	0.00076070	0.00144959
30 FABR. METAL PROD	0	0	0	0	0	0	0	0
31 MACH METAL PROD.	0	0.00010951	0.00292244	0.00152649	0.04781387	0.00071261	0.00090888	0.00174195
32 MACHINERY	0	0	0	0	0	0	0	0.00053598
33 ELECTRICAL APPAR	0	0	0	0	0	0	0	0.00030454
34 TRANS. EQUIP.	0	0	0.00008302	0	0	0	0	0.00006091
35 OTHER MANUFACT.	0	0	0	0	0	0	0	0
36 RAILROAD TRANS.	0	0	0.00257816	0	0	0	0	0
37 MOTOR TRANS.	0	0	0.00499582	0	0	0	0	0.00030454
38 WATER TRANS.	0	0	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	0	0	0	0
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0	0	0	0	0	0	0
42 TELEPHONE TELEGR	0	0.00226779	0.00945696	0.00588682	0.00234569	0.02606892	0.02242573	0.02918677
43 RADIO & TV	0	0.00020990	0.02078804	0.00237652	0	0	0	0.00566438
44 GAS	0	0.01481137	0	0.00164937	0	0.00950862	0.00533476	0.00259465
45 ELECTRICITY	0	0.02492289	0	0.00438313	0	0.04039566	0	0.02560542
46 WATER	0	0.00418423	0	0.00045605	0	0.00788130	0	0.00404424
47 WHOLES. EQ. SUP	0.00563090	0	0.00000996	0	0	0	0	0.00023145
48 WHOLES. GROCERY	0	0	0	0	0	0.00002127	0	0.00053598
49 WHOLES. FARM P	0	0	0	0	0	0	0	0.00007309
50 WHOLES. PETRO	0.07961135	0	0	0	0	0	0	0
51 GENERAL WHOLESLE	0	0.00174305	0.00458402	0.00541303	0.03178500	0.02252074	0.01429517	0.00271646
52 LUMBERYARDS	0	0	0	0	0	0	0	0
53 AUTO TRACTOR DLR	0	0	0.00057895	0	0	0	0	0.00026799
54 HARDWARE HOME FR	0	0	0	0	0	0	0	0
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0	0.00384934
56 FOOD STORES	0	0	0	0	0	0	0	0
57 GAS. SERV. STA.	0	0	0	0	0	0.00139332	0	0

58 EAT & DRINK PLCS	0	0	0	0	0	0.00103170	0	0
59 OTHER RETAIL	0	0	0	0	0	0	0.00035565	0
60 BANK & CREDIT AS	0	0.00923543	0.00494370	0.00110845	0.00030912	0.14998936	0	0.02545924
61 INS. CARRIERS	0.00023961	0	0.00144351	0.00045098	0.00152743	0.00404169	0.00118550	0.00041417
62 FIRE NOT CLASSFD	0	0.00367775	0.00130513	0.00067520	0.00598242	0.00271219	0.00358614	0.00032890
63 LEGAL SERVICES	0	0.00104492	0.00950899	0.00191793	0.01633800	0.07343118	0.01067939	0.00274083
64 LODGING SERVICES	0	0	0	0	0	0.00055307	0	0
65 PERSONAL SERV	0	0.03450510	0	0	0	0	0	0.00220484
66 OTHER BUS. SERV.	0	0.00760645	0.00502570	0.01869542	0.03812199	0.01969794	0	0.00672416
67 REPAIR SERV.	0	0.00923543	0.00128964	0	0	0	0	0.00601764
68 MEDICAL SERV.	0	0	0	0	0.00684614	0	0	0
69 EDUCATION SERV.	0	0	0	0	0	0	0.00747854	0
70 BOOKKEEPING SERV	0	0.00272865	0.00116897	0.00080822	0.00064552	0.01017869	0	0
71 ALL OTHER SVCS.	0	0	0	0.00193060	0.01571066	0.01723038	0.01132154	0.00875847
72 HOUSEHOLDS	0.54466382	0.41877019	0.50201803	0.69780122	0.51692442	0.15293555	0.51816287	0.44841154
73 FEDERAL GOV'T.	0.12451478	0.14564055	0.09659204	0.03522589	0.03844021	0.02479260	0.04848700	0.01039078
74 STATE GOV'T.	0.00414530	0.04148145	0.03176710	0.00137448	0.07968070	0.06955967	0.00320085	0.02431418
75 LOCAL GOV'T.	0.00414530	0.04848145	0.03628027	0.01183064	0.00690069	0.06004042	0.00641159	0.00922136
76 IMPORTS	0.12129199	0.20861396	0.20219161	0.14717295	0.15219704	0.10474367	0.34523774	0.26606734
77 GROSS SAVINGS	0	0.00252788	0.03110512	0.05099881	0	0.11767709	0	0.06906885
<b>TOTAL</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>	<b>1.00000000</b>

DIRECT INPUT REQUIREMENTS : SOUTHEAST TEXAS, 1967

	65	66	67	68	69	70	71	HOUSEHOLDS
1 CROP PRODUCTION	0	0.00000463	0	0	0	0	0	0.00001003
2 ANIM. & POULT.	0	0	0	0	0	0	0	0
3 AGRI. SUPP/SVCS.	0	0	0	0	0	0	0	0
4 FORESTRY	0	0	0	0	0	0	0	0
5 FISHERIES	0	0	0	0	0	0	0	0
6 CRUDE PETROLEUM	0	0	0	0	0	0	0	0
7 OIL/GAS FLD. SVC	0	0	0	0	0	0	0	0
8 OTHER MINING	0	0	0	0	0	0	0	0
9 RES. COM. & INOS	0	0.00020356	0	0	0.00912244	0	0	0.00009011
10 FACILITY CONSTR.	0	0.01157945	0	0.02427028	0	0	0	0
11 MEAT & POULTRY	0	0	0	0	0.03594217	0	0	0.00355245
12 DAIRIES	0	0	0	0	0.04650863	0	0	0.00104697
13 GRAIN PRODUCTS	0	0	0	0	0.00028163	0	0	0
14 BAKERY PRODUCTS	0	0	0	0	0.02292566	0	0	0.00148914
15 PROD. FOOD & KIN	0	0	0	0.02416962	0.04090782	0	0.00821545	0.0012226
16 BEVERAGES	0	0	0	0	0	0	0	0.00182038
17 TEX. PRO. & APPR	0	0	0	0	0.00022272	0	0	0.0018453
18 LOGGING	0	0	0	0	0	0	0	0
19 LUMBER MILLS	0	0	0	0	0.00033777	0	0	0.00140411
20 MILLWORK	0	0	0	0	0	0	0	0.00001220
21 FURN. & FIXTURES	0	0	0	0	0.00195113	0	0	0.00020036
22 PAPER PRODUCTS	0	0	0	0.00805841	0.00688235	0	0.03365587	0.00313448
23 PRINT & PUBLISH	0	0.00055978	0.00155061	0.00305615	0.00150016	0	0.02177494	0.00193065
24 CHEMICALS	0.00004241	0.00011566	0.00012745	0	0.00106944	0	0.00009622	0.00172596
25 PETRO. PRODUCTS	0	0.00011566	0	0	0.00026782	0	0	0.29515180
26 RUB. PLAS. LEATH	0	0	0	0	0.00003129	0	0	0.00007526
27 GLASS CLAY STONE	0.00049473	0.00019431	0.00004248	0.00005144	0.00012885	0.00044828	0.00193359	0
28 CEMENT CONCRETE	0	0	0	0	0	0	0	0.00011894
29 METAL SMT. CAST	0.00338303	0.04635562	0.00030446	0.00364613	0.00227877	0.00313795	0.01369744	0
30 FABR. METAL PROD	0	0.00021744	0	0	0.00000644	0	0	0.00022154
31 MACH METAL PROD.	0.00423114	0.00170604	0.00036110	0.00440668	0.00339515	0.00377172	0.02908040	0.00030210
32 MACHINERY	0	0.00240568	0	0	0.00207149	0.00910468	0	0.00002520
33 ELECTRICAL APPAR	0	0	0	0	0.00003129	0	0	0
34 TRANS. EQUIP.	0.00114966	0.00027295	0.00212412	0	0.00053564	0	0.00155568	0.00360196
35 OTHER MANUFACT.	0	0.01481807	0	0	0.00516170	0	0	0.00013135
36 RAILROAD TRANS.	0	0	0	0	0.00038838	0	0	0.00066005
37 MOTOR TRANS.	0	0.00105942	0.00115410	0	0.00310892	0	0.00315310	0.00109925
38 WATER TRANS.	0	0	0	0	0	0	0	0
39 AIR TRANS.	0	0	0	0	0.00116055	0	0	0.00011159
40 PIPELINE TRANS.	0	0	0	0	0	0	0	0
41 OTHER TRANS.	0	0.00193842	0.00077176	0	0	0	0	0.00001821
42 TELEPHONE TELEGR	0.00185642	0.00910920	0	0	0.01122819	0.01092871	0.04012784	0.00491051
43 RADIO & TV	0	0.00037473	0	0.00039705	0.00096636	0	0.01114714	0
44 GAS	0.00557398	0.00051815	0	0	0.00795913	0	0.00630156	0.00825154
45 ELECTRICITY	0.01997776	0.00460780	0	0.00255565	0.01830747	0	0.11343627	0.01401169
46 WATER	0.00371756	0.00014342	0	0	0.00520914	0	0.00945466	0.00369167
47 WHOLES. EQ. SUP	0.00631844	0.00302561	0.03438944	0.02224869	0.01536881	0.00408088	0.00010085	0.00274532
48 WHOESL. GROCERY	0	0	0	0.00511130	0.00271685	0	0.02135298	0
49 WHOLESLE FARM P	0	0	0	0	0	0	0.000001855	0
50 WHOLESLE PETRO	0	0	0	0	0	0	0	0.01138248
51 GENERAL WHOLESLE	0.00662470	0.00261387	0.00055227	0.00686726	0.03702541	0.00592034	0.02580790	0.00011551
52 LUMBERYARDS	0	0	0	0	0	0	0	0.0009546
53 AUTO TRACTOR OLR	0.00433480	0.00174412	0.00879385	0	0	0	0.00643951	0.03884112
54 HARDWARE HOME FR	0	0	0	0.14556578	0	0	0	0.00781111
55 DEPT. CLOTH VAR.	0	0	0	0	0	0	0.00107692	0.0316247
56 FOOD STORES	0	0	0	0	0	0	0	0.05025152
57 GAS. SERV. STA.	0.00227106	0.00204946	0.00943109	0	0.00015554	0.00667780	0	0.00161202

58 EAT & DRINK PLCS	0	0	0	0	0	0	0	0	0.01367228
59 OTHER RETAIL	0.00023559	0.00034235	0.00071512	0.00000839	0.00030647	0	0.00056107	0.02126400	
60 BANK & CREDIT AG	0.00139467	0.01226435	0.00540234	0	0.00036906	0	0.02549954	0.00949837	
61 INS. CARRIERS	0.00292128	0.00287756	0.00037526	0.00071021	0.00128296	0.00075744	0.00158466	0.00312895	
62 FIRE NOT CLASSFD	0.00331484	0.00185978	0.00194711	0.00951239	0.00660714	0.00567304	0	0	
63 LEGAL SERVICES	0	0.00080960	0	0.00255565	0.00136119	0	0.00073727	0.00322363	
64 LODGING SERVICES	0	0	0	0	0	0	0.00098071	0.00029552	
65 PERSONAL SERV	0	0	0	0.01419868	0.00108964	0	0	0.01043180	
66 OTHER BUS. SERV.	0.00544677	0.00459393	0.00038234	0.00015658	0.00490635	0	0	0.00059995	
67 REPAIR SERV.	0.02926930	0.00362703	0	0	0	0	0.01210466	0.00151388	
68 MEDICAL SERV.	0	0	0	0	0	0	0	0.02192702	
69 EDUCATION SERV.	0	0	0	0	0.00023807	0	0	0.01960456	
70 BOOKKEEPING SERV	0.00100831	0.00133238	0	0.00124148	0	0	0.00741790	0.00098984	
71 ALL OTHER SVCS.	0.00199778	0.00538040	0.00155061	0.01894648	0.00320740	0.00349348	0.09450027	0.03574710	
72 HOUSEHOLDS	0.31335400	0.29326641	0.37076504	0.46502479	0.60493065	0.60777221	0.21446067	0.06230394	
73 FEDERAL GOV'T.	0.03024463	0.03855104	0.01504585	0.01321165	0.02282636	0.03825821	0.05299991	0.09684823	
74 STATE GOV'T.	0.00743512	0.00965048	0.00424824	0.00134493	0	0	0.05513753	0.01771358	
75 LOCAL GOV'T.	0.00371756	0.00311351	0.00463766	0.00060955	0.00036077	0.00400359	0.02655096	0.03724208	
76 IMPORTS	0.41131099	0.49673614	0.50156831	0.22161174	0.04304998	0.28196686	0.15903798	0.10471803	
77 GROSS SAVINGS	0.12637347	0.01966192	0.03375934	0	0.02416361	0.01400492	0	0.04000935	
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTHEAST, TEXAS, 1967

	1	2	3	4	5	6	7	8
1 CROP PRODUCTION	1.03533417	0.05519377	0.03045779	0.00000030	0.00022350	0.00000030	0.00000035	0.00000006
2 ANIM. & POULT.	0.00001378	1.02267147	0.00006886	0.00000028	0.00413712	0.00000068	0.00000034	0.00000003
3 AGRI. SUPP/SVCS.	0.19326199	0.03432222	1.000526724	0.00000006	0.00013889	0.00000007	0.00000009	0.00000001
4 FORESTRY	0.00045792	0.00112439	0.00011053	1.00001356	0.00000907	0.00011677	0.00000283	0.00001451
5 FISHERIES	0.00000839	0.00037867	0.00001606	0.00000094	1.00235250	0.00001591	0.00000960	0.00000126
6 CRUDE PETROLEUM	0.00112916	0.00030652	0.00174229	0.00023193	0.00024864	1.000095142	0.00032947	0.00007674
7 OIL/GAS FLD. SVC	0.00019017	0.00004952	0.00027292	0.00002551	0.00002743	0.00002743	1.00005745	0.00001032
8 OTHER MINING	0.00098034	0.00018966	0.00047378	0.00001179	0.00000655	0.00121118	0.00000767	1.00000840
9 PES. COM. & INOS	0.01440249	0.00032033	0.00265412	0.00003432	0.00022056	0.00076874	0.0001856	0.00005511
10 FACILITY CONSTR.	0.00109596	0.00033632	0.00058066	0.00006628	0.00000762	0.00022022	0.00036816	0.00001665
11 MEAT & POULTRY	0.00001350	0.00070311	0.00005918	0.00000029	0.00000297	0.00000059	0.00000026	0.00000004
12 DAIRIES	0.00000207	0.00090075	0.00000952	0.00000029	0.00000017	0.00000074	0.00000018	0.00000005
13 GRAIN PRODUCTS	0.00000042	0.25317179	0.00002153	0.00000008	0.00102420	0.00000026	0.00000042	0.00000002
14 BAKERY PRODUCTS	0.00000019	0.00000021	0.00000020	0.00000018	0.00000010	0.00000036	0.00000011	0.00000002
15 PROD. FOOD & KIN	0.00000946	0.000742367	0.00017629	0.00000848	0.0000190	0.00000453	0.00000464	0.00000144
16 BEVERAGES	0.00020376	0.00004280	0.00101554	0.00000233	0.00000190	0.00001469	0.00000945	0.00000810
17 TEX. PROD. & APPR.	0.00079826	0.00039577	0.00032465	0.00005734	0.00218501	0.00000692	0.00017653	0.00000786
18 LOGGING	0.00023885	0.00066651	0.00006643	0.00000888	0.00000692	0.00017653	0.00001432	0.00000786
19 LUMBER MILLS	0.00353269	0.00822846	0.00005750	0.00009431	0.00009737	0.00022967	0.00017331	0.00011054
20 MILLWORK	0.00031135	0.00022125	0.00042008	0.00007686	0.00003939	0.00010774	0.00007727	0.00006429
21 FURN. & FIXTURES	0.00001350	0.00022125	0.00042008	0.00007686	0.00003939	0.00009702	0.00010752	0.00009452
22 PAPER PRODUCTS	0.00095800	0.00074611	0.00110514	0.00017378	0.00015557	0.00058199	0.00020383	0.00005307
23 PRINT & PUBLISH	0.00150969	0.00152977	0.00151835	0.00016140	0.00019897	0.0006861	0.00028972	0.00014222
24 CHEMICALS	0.13699279	0.03350706	0.17922832	0.00039342	0.00066739	0.00218888	0.00073952	0.000511315
25 PETRO. PRODUCTS	0.02934287	0.00795794	0.03423944	0.00001052	0.00080743	0.00020856	0.01301624	0.00263990
26 RUB. PLAS. LEATH	0.00596337	0.00241977	0.00075661	0.00012337	0.00003405	0.00049115	0.00017290	0.00009276
27 GLASS CLAY STONE	0.01377292	0.00193416	0.00069545	0.00010278	0.00004821	0.00014851	0.00007107	0.000141367
28 CEMENT CONCRETE	0.00299005	0.00167694	0.00029029	0.00003668	0.00001899	0.00019071	0.00003738	0.00002335
29 METAL SMELT CAST	0.00071638	0.000476850	0.00522935	0.00196667	0.00131951	0.00150657	0.00194022	0.00091156
30 FABR. METAL PROD	0.00040803	0.00035940	0.00018748	0.00017785	0.00001126	0.00005285	0.00003515	0.00037797
31 MACH METAL PROD.	0.00591833	0.00951000	0.00175149	0.00112029	0.00119804	0.00317149	0.00079090	0.00011905
32 MACHINERY	0.03335613	0.00709049	0.02465920	0.01435752	0.00020532	0.00534390	0.00012619	0.00176681
33 ELECTRICAL APPAR	0.00014457	0.00004855	0.00016290	0.00014786	0.00004354	0.00003909	0.00003717	0.00012248
34 TRANS. EQUIP.	0.01069327	0.00219819	0.00090604	0.00003846	0.01937900	0.00028395	0.00007906	0.000004975
35 OTHER MANUFACT.	0.00104773	0.00105825	0.00063818	0.00116191	0.00009072	0.00011274	0.00046392	0.00002200
36 RAILROAD TRANS.	0.00178351	0.00208612	0.00070568	0.00133195	0.00017022	0.00034455	0.00033584	0.00029844
37 MOTOR TRANS.	0.00296432	0.01130013	0.00324521	0.00170666	0.00039199	0.01963049	0.02710310	0.00033945
38 WATER TRANS.	0.00091478	0.00024271	0.00119188	0.01025967	0.00002332	0.00078939	0.00003090	0.00003293
39 AIR TRANS.	0.00044093	0.00017428	0.000307054	0.00343009	0.0000501	0.00233727	0.00051493	0.00002366
40 PIPELINE TRANS.	0.00000010	0.00000025	0.00000002	0.00022092	0.00000000	0.00000003	0.00000001	0.00000000
41 OTHER TRANS.	0.00014218	0.00005142	0.00010907	0.00002650	0.00000342	0.00025502	0.00005576	0.000420788
42 TELEPHONE TELEGR	0.00845855	0.00994463	0.00768748	0.00071162	0.00109422	0.00447517	0.00679486	0.00060114
43 RADIO & TV	0.00051824	0.00046734	0.00109750	0.00002647	0.00016006	0.00010990	0.00015530	0.00002165
44 GAS	0.00700539	0.01214397	0.00619202	0.00025984	0.00056296	0.00391552	0.00112781	0.0002469
45 ELECTRICITY	0.01601305	0.01895525	0.01492357	0.00044149	0.00117088	0.01291076	0.00242239	0.00231567
46 WATER	0.00287136	0.00113194	0.01320221	0.00037046	0.00032440	0.00077814	0.00043365	0.00651514
47 WHOLES. EQ. SUP	0.00746010	0.00340805	0.01343261	0.00389592	0.00469968	0.00791319	0.01041460	0.00055659
48 WHOLES. GROCERY	0.00010184	0.00005679	0.00020259	0.00001457	0.00002339	0.00013542	0.00032864	0.00001274
49 WHOLES. FARM P	0.01753344	0.10634586	0.00142395	0.00000013	0.00043037	0.00000037	0.00000041	0.00000002
50 WHOLES. PETRO	0.01782828	0.00417516	0.02509881	0.00334820	0.00654703	0.00836501	0.00892920	0.00012288
51 GENERAL WHOLES	0.04657577	0.02406879	0.00934533	0.00579864	0.00027372	0.00421095	0.00154130	0.00049822
52 LUMBERYARDS	0.00047960	0.00403875	0.00009349	0.00002831	0.00002720	0.00329803	0.00013310	0.00000464
53 AUTO TRACTOR DLP	0.05698476	0.01408555	0.01012281	0.00312843	0.00031063	0.00591118	0.00059138	0.00035878
54 HARDWARE HOME FR	0.00414629	0.00527267	0.00001362	0.00002432	0.00002659	0.00001292	0.00004082	0.00000296
55 DEPT. CLOTH VAR.	0.00010493	0.00004742	0.000037664	0.00000882	0.00001135	0.00002385	0.00001834	0.00000146
56 FOOD STORES	0.00005123	0.00001230	0.00026625	0.00000001	0.00051084	0.00000014	0.00000082	0.00000001
57 GAS. SERV. STA.	0.02308529	0.00668141	0.03219307	0.00003311	0.00013813	0.00332347	0.00103749	0.00011649

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58 EAT & DRINK PLCS	0.00014064	0.00005477	0.00044758	0.00000228	0.00000335	0.00112333	0.01050706	0.00006580
59 OTHER RETAIL	0.00010270	0.00015691	0.00037550	0.00000811	0.00001002	0.00004177	0.00028543	0.00000409
60 BANK & CREDIT AG	0.04465035	0.03168954	0.00541610	0.00072513	0.00036404	0.00126002	0.00623999	0.00057925
61 INS. CARRIERS	0.00425785	0.00760178	0.00158524	0.00048309	0.00094169	0.00132951	0.00037400	0.00008490
62 FIRE NOT CLASSFD	0.00064365	0.00063350	0.00034895	0.00015879	0.00008814	0.00029436	0.00029903	0.00011336
63 LEGAL SERVICES	0.00050896	0.00076632	0.00046085	0.00013336	0.00042981	0.00188266	0.00044115	0.00013157
64 LODGING SERVICES	0.00073876	0.00013563	0.00369597	0.00000729	0.00001413	0.00010449	0.00064933	0.00000454
65 PERSONAL SVCS	0.00017711	0.00009822	0.00008842	0.00003118	0.00029978	0.00009185	0.00037626	0.00000647
66 OTHER BUS. SERV.	0.00875637	0.00480273	0.03371326	0.00025404	0.00017077	0.00647800	0.03090305	0.00079641
67 REPAIR SERV.	0.00291845	0.00196808	0.00597545	0.00140576	0.00019005	0.00070279	0.00429700	0.00028968
68 MEDICAL SERV.	0.00005291	0.00007847	0.00003152	0.00000545	0.00000793	0.00002549	0.00000562	0.00000399
69 EDUCATION SERV.	0.00000559	0.00000866	0.00000443	0.00000771	0.00000325	0.00001468	0.00000338	0.00000104
70 BOOKKEEPING SERV	0.00050614	0.00054502	0.00083950	0.00008776	0.00098940	0.01215279	0.00076079	0.00012331
71 ALL OTHER SVCS.	0.00443400	0.00258229	0.00868546	0.00066628	0.00092811	0.00507614	0.00384778	0.00051488
TOTAL	1.78858640	1.78668842	1.45121532	1.07090885	1.07982051	1.25538753	1.16954791	1.14365834





58 EAT & DRINK PLCS	0.00115505	0.00009008	0.00005064	0.02163471	0.00001650	0.00057293	0.00003235	0.00000533
59 OTHER RETAIL	0.00094950	0.00363387	0.00037571	0.00023149	0.00040656	0.00027005	0.00056276	0.00000767
60 BANK & CREDIT AG	0.01408330	0.00728617	0.02173581	0.00044819	0.00100294	0.00093497	0.00104587	0.00037160
61 INS. CARRIERS	0.00204522	0.00484788	0.00516250	0.00129575	0.00087755	0.00085703	0.00372863	0.00093613
62 FIRE NOT CLASSFD	0.00075266	0.00104600	0.00050305	0.00018498	0.00105945	0.00017260	0.00022397	0.00010633
63 LEGAL SERVICES	0.00203635	0.00069571	0.00075238	0.00158124	0.00140791	0.00036986	0.00036881	0.00063480
64 LODGING SERVICES	0.00000797	0.00000606	0.00012815	0.00000406	0.00000910	0.00002346	0.00002261	0.00247550
65 PERSONAL SVCS	0.00006330	0.00001588	0.00023185	0.00075792	0.00005029	0.00002614	0.00005904	0.00002007
66 OTHER BUS. SERV.	0.00264723	0.00459532	0.00406633	0.00051072	0.00274663	0.01381656	0.00171104	0.00543474
67 REPAIR SERV.	0.00548323	0.00077945	0.00168131	0.00034897	0.00159421	0.00438029	0.00041175	0.00027952
68 MEDICAL SERV.	0.00009903	0.00005345	0.00007482	0.00003730	0.00002270	0.00001741	0.00007795	0.00001862
69 EDUCATION SERV.	0.00008762	0.00001953	0.00000996	0.00001185	0.00001143	0.00000577	0.00000289	0.00000482
70 BOOKKEEPING SERV	0.00067779	0.00055009	0.00350050	0.00066883	0.00054718	0.00028097	0.00053146	0.00117442
71 ALL OTHER SVCS	0.00241408	0.00324313	0.00228885	0.00015024	0.00219522	0.00048898	0.00059716	0.00059144
TOTAL	1.69168472	1.32247788	2.26088104	1.16886128	1.13235017	1.18362744	1.21828816	1.13718344



58 EAT & DRINK PLCS	0.00002152	0.00000352	0.00000376	0.00003771	0.00002490	0.00003609	0.00000228	0.00001794
59 OTHER RETAIL	0.00017192	0.00022875	0.00040839	0.00035869	0.00240169	0.00045123	0.00114250	0.00001519
60 BANK & CREDIT AG	0.00030801	0.000404284	0.00086451	0.00122141	0.00363592	0.00397972	0.00089078	0.00086407
61 INS. CARRIERS	0.00175989	0.00201844	0.00079634	0.00406769	0.00770263	0.00088184	0.00160901	0.00249686
62 FIRE NOT CLASSFD	0.00014909	0.00019984	0.00018854	0.00064432	0.00143309	0.00029704	0.00011769	0.00021059
63 LEGAL SERVICES	0.00017564	0.00105693	0.00052219	0.00244209	0.00629901	0.00033776	0.00073214	0.00024955
64 LODGING SERVICES	0.00000524	0.00001094	0.00000914	0.00002659	0.00000494	0.00000393	0.00003375	0.00000341
65 PERSONAL SERV	0.00000293	0.00002448	0.00001812	0.00002886	0.00010967	0.00005495	0.00003916	0.00001519
66 OTHER BUS. SERV.	0.00044520	0.00044061	0.00052563	0.00259390	0.00243826	0.00184707	0.00424591	0.00254980
67 REPAIR SERV.	0.00009931	0.01179967	0.00438579	0.01016227	0.56345082	0.00045647	0.01111074	0.00031436
68 MEDICAL SERV.	0.00002894	0.00001598	0.00001681	0.00064946	0.00006389	0.00001740	0.00003652	0.00004064
69 EDUCATION SERV.	0.00000138	0.00001620	0.00034310	0.00009386	0.00004910	0.00000511	0.00000550	0.00000685
70 BOOKKEEPING SERV	0.00559655	0.00052041	0.00028557	0.00088548	0.01648711	0.00019195	0.00084425	0.00016645
71 ALL OTHER SVCS.	0.00397668	0.00098338	0.00252791	0.00283274	0.00164259	0.00135306	0.00291336	0.00149382
TOTAL	1.06843342	1.70243238	1.29285753	1.72528648	1.79768761	1.21704475	1.10315274	1.22128919



58 EAT & DRINK PLCS	0.00003229	0.00005479	0.00241577	0.00000327	0.00000108	0.00002846	0.00000558	0.00000234
59 OTHER RETAIL	0.00000658	0.00029966	0.00028756	0.00004742	0.00000568	0.00089975	0.00014166	0.00002611
60 BANK & CREDIT AG	0.00011145	0.00104737	0.00074965	0.00027640	0.00068100	0.00342169	0.00044028	0.00070718
61 INS. CARRIERS	0.00012420	0.00352694	0.00159524	0.00180104	0.00055022	0.00042105	0.00063213	0.00088989
62 FIRE NOT CLASSFD	0.00002105	0.00024007	0.00168580	0.00012192	0.00007049	0.00026771	0.00013042	0.00010090
63 LEGAL SERVICES	0.00010362	0.00095261	0.00161586	0.00091548	0.00035831	0.00048735	0.00039155	0.00081252
64 LODGING SERVICES	0.00000291	0.00000209	0.00000351	0.00000188	0.00000112	0.00000776	0.00000826	0.00001716
65 PERSONAL SVCS	0.00000821	0.00003781	0.00016568	0.00012377	0.00005974	0.00013926	0.00036907	0.00006912
66 OTHER BUS. SERV.	0.00028329	0.00656249	0.00069341	0.00128911	0.00039402	0.01510673	0.00159418	0.00204813
67 REPAIR SERV.	0.00022245	0.00718975	0.00071827	0.00174629	0.00416613	0.04508956	0.01225885	0.00274447
68 MEDICAL SERV.	0.00000741	0.00005364	0.00003288	0.00004806	0.00004369	0.00104004	0.00001712	0.00010295
69 EDUCATION SERV.	0.00000124	0.00000978	0.00001221	0.00000696	0.00000274	0.00000368	0.00000320	0.00000623
70 BOOKKEEPING SERV	0.00032114	0.00093864	0.00088858	0.00060881	0.00004269	0.00062415	0.00042188	0.00021352
71 ALL OTHER SVCS.	0.00022509	0.00080730	0.00103801	0.00033810	0.00084928	0.00519606	0.00205992	0.00858629
TOTAL	1.08858361	1.30996184	1.39366069	1.15306281	1.08643671	1.21579955	1.13401349	1.19492573



59 EAT & DRINK PLCS	0.00000950	0.00000108	0.00000295	0.00011488	0.00002979	0.00003664	0.00000075	0.00011211
59 OTHER RETAIL	0.00182027	0.00016870	0.00023709	0.00010426	0.00002012	0.00006590	0.00000045	0.00004956
60 BANK & CREDIT AG	0.000647659	0.00041945	0.00177384	0.000643367	0.00164063	0.02799410	0.00002525	0.00097576
61 INS. CARRIERS	0.00003077	0.00366698	0.00225921	0.00064181	0.00658453	0.02757812	0.00011096	0.00033576
62 FIRE NOT CLASSFD	0.00011506	0.00009624	0.00010988	0.00203745	0.00456439	0.01038515	0.00001057	0.00120629
63 LEGAL SERVICES	0.00923042	0.00270024	0.00083253	0.00046094	0.00658788	0.00741319	0.00000897	0.00097077
64 LODGING SERVICES	0.00000036	0.00000132	0.00000832	0.00000298	0.00006061	0.00001956	0.00000182	0.00000418
65 PERSONAL SERVS	0.00000171	0.00003345	0.00004246	0.00894938	0.00005226	0.00056279	0.00000417	0.00001990
66 OTHER BUS. SERV.	0.00018047	0.00047643	0.00276498	0.00472263	0.00134001	0.00539221	0.00001646	0.00049142
67 REPAIR SERV.	0.00001594	0.000030905	0.01526390	0.00117429	0.00054274	0.00308096	0.00001252	0.00057440
68 MEDICAL SERV.	0.00001383	0.00004799	0.00006988	0.00002343	0.00006703	0.00023530	0.00000128	0.00003723
69 EDUCATION SERV.	0.00006906	0.00002024	0.00000629	0.00001045	0.00005073	0.00073384	0.00000009	0.00000972
70 BOOKKEEPING SERV	0.00910362	0.00411123	0.00212058	0.00017838	0.00290072	0.00184503	0.00000675	0.00035467
71 ALL OTHER SVCS.	0.00020062	0.00034617	0.00754716	0.00052497	0.00508550	0.00725521	0.00012772	0.00084517
TOTAL	1.05425606	1.12841449	1.16545013	1.34855708	1.25822857	1.67692484	1.00939572	1.25340692



INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) :      SOUTHEAST      TEXAS, 1967

	41	42	43	44	45	46	47	48
1 CROP PRODUCTION	0.00000068	0.00000014	0.00000065	0.00000019	0.00000022	0.00000053	0.00000032	0.00005245
2 ANIM. & POULT.	0.00000111	0.00000002	0.00000045	0.00000022	0.00000017	0.00000023	0.00000030	0.00009627
3 AGRI. SUPP/SVCS.	0.00000016	0.00000003	0.00000013	0.00000004	0.00000005	0.00000011	0.00000010	0.00001910
4 FORESTRY	0.00001179	0.00000752	0.00002675	0.00009980	0.00010068	0.00002446	0.00001992	0.00005645
5 FISHERIES	0.00000120	0.00000019	0.00002147	0.00000750	0.00000390	0.00000241	0.00000433	0.000013104
6 CRUDE PETROLEUM	0.00000608	0.00000478	0.00225486	0.00015881	0.00032630	0.00007384	0.00012901	0.00005748
7 OIL/GAS FLD. SVC	0.00000073	0.00000051	0.00024731	0.00001751	0.00003459	0.00001967	0.00001417	0.00000647
8 OTHER MINING	0.00000504	0.00000199	0.00005680	0.00001284	0.00001895	0.00117895	0.00000573	0.00000870
9 RES. COM. & INDS	0.00024347	0.00025675	0.01299292	0.00354637	0.00293940	0.02986353	0.00066745	0.00186680
10 FACILITY CONSTR.	0.00090809	0.00002396	0.00063697	0.00011778	0.00025697	0.00002349	0.00007527	0.00002714
11 MEAT & POULTRY	0.00000182	0.00000093	0.00000059	0.00000039	0.00000023	0.00000013	0.00000016	0.000041721
12 DAIRIES	0.00000252	0.00000004	0.00000059	0.00000047	0.00000029	0.00000017	0.00000019	0.00002443
13 GRAIN PRODUCTS	0.00000030	0.00000001	0.00000029	0.00000016	0.00000007	0.00000007	0.00000017	0.000015180
14 BAKERY PRODUCTS	0.00000111	0.00000002	0.00000030	0.00000020	0.00000013	0.00000009	0.00000013	0.000002067
15 PROD. FOOD & KIN	0.00001104	0.00000274	0.00025323	0.00005442	0.00004912	0.00003226	0.00000138	0.000024599
16 BEVERAGES	0.00002471	0.00001309	0.00001445	0.00001788	0.00001970	0.00000221	0.00000372	0.000022514
17 TEX. PRO. & APPR	0.00000181	0.00000315	0.00001237	0.00021890	0.00030917	0.00041552	0.00001207	0.00010474
18 LOGGING	0.00000530	0.00000395	0.00018760	0.00005339	0.00005479	0.00042168	0.00001133	0.00002996
19 LUMBER MILLS	0.00000035	0.00005862	0.00281495	0.00076351	0.00076518	0.00042518	0.00014868	0.000043940
20 MILLWORK	0.00004496	0.00003229	0.00167230	0.00048880	0.00037400	0.00087271	0.00009229	0.00024527
21 FURN. & FIXTURES	0.00002281	0.00002040	0.00010881	0.00002454	0.00002580	0.00070614	0.00017593	0.00001827
22 PAPER PRODUCTS	0.00003564	0.00000923	0.00040239	0.00031761	0.00038754	0.00097975	0.00011569	0.00007507
23 PRINT & PUBLISH	0.00036630	0.00163956	0.00053528	0.00111473	0.00179795	0.00099767	0.00223281	0.00023338
24 CHEMICALS	0.00009044	0.00003637	0.00294919	0.00029432	0.00247138	0.01016281	0.00018920	0.00030313
25 PETRO. PRODUCTS	0.00023124	0.00017028	0.00922262	0.00626160	0.01193242	0.00198891	0.00510241	0.00224021
26 RUB. PLAS. LEATH	0.00002700	0.00000367	0.00005636	0.00020376	0.00020920	0.00070847	0.00000603	0.000004093
27 GLASS CLAY STONE	0.00006994	0.00003168	0.00060728	0.00016792	0.00021300	0.02101791	0.00007243	0.00011646
28 CEMENT CONCRETE	0.00002350	0.00001953	0.00068999	0.00018658	0.00051677	0.00493298	0.00004348	0.00013167
29 METAL SMELT CAST	0.000397861	0.00014353	0.13727375	0.00055060	0.00073507	0.00291205	0.00094481	0.000067620
30 FABR. METAL PROD	0.00007173	0.00000957	0.00025363	0.00003809	0.00005351	0.00037017	0.00003401	0.000079604
31 MACH METAL PROD.	0.00053473	0.00002732	0.00219416	0.00038499	0.00043992	0.00140373	0.00038439	0.00034217
32 MACHINERY	0.00023096	0.00001982	0.00040099	0.00015241	0.00017145	0.00127239	0.00006564	0.00016070
33 ELECTRICAL APPAR	0.00000610	0.00000035	0.00007346	0.00000653	0.00000377	0.00019519	0.00017737	0.00001751
34 TRANS. EQUIP.	0.00004126	0.00000752	0.00014731	0.00006093	0.00003325	0.00075910	0.00013252	0.00007662
35 OTHER MANUFACT.	0.00115978	0.00004293	0.00294977	0.00006723	0.00005550	0.00044634	0.00000405	0.00001470
36 RAILROAD TRANS.	0.00024013	0.00106125	0.00149596	0.00073794	0.00314656	0.00050209	0.00540595	0.01327515
37 MOTOR TRANS.	0.00012730	0.00109952	0.00069921	0.00090835	0.00115590	0.00005378	0.00022264	0.01591002
38 WATER TRANS.	0.00000197	0.00000051	0.00004132	0.00000615	0.00002131	0.00009159	0.00003469	0.00000536
39 AIR TRANS.	0.00001369	0.00004794	0.00129651	0.00001230	0.00002610	0.00005336	0.00015772	0.00004540
40 PIPELINE TRANS.	0.00000000	0.00000000	0.00000009	0.00000002	0.00000002	0.00000000	0.00000000	0.00000000
41 OTHER TRANS.	1.00015414	0.00000507	0.01296510	0.00002169	0.00003676	0.00001107	0.00005687	0.00001459
42 TELEPHONE TELEGR	0.00776831	1.00014898	0.00187768	0.00517438	0.00443796	0.00258753	0.00799642	0.00941970
43 RADIO & TV	0.00015819	0.00000793	1.00018505	0.00033251	0.00067830	0.00016890	0.00342127	0.00008498
44 GAS	0.00128421	0.00229440	0.00427496	1.00287477	0.16302156	0.00688709	0.00074649	0.01442399
45 ELECTRICITY	0.00220390	0.00701221	0.02069959	0.00279043	1.00094689	0.03845453	0.00378533	0.04261922
46 WATER	0.00005962	0.00101098	0.00001423	0.00058837	0.00291792	1.04979839	0.00011789	0.00072610
47 WHOLES. EQ. SUP	0.03746628	0.00011568	0.00134498	0.00022987	0.00160183	0.03433737	1.00173168	0.00169310
48 WHOLES. GROCERY	0.00001829	0.00000143	0.00024541	0.00013485	0.00004003	0.00002205	0.00006345	1.00000901
49 WHOLESALE FARM P	0.00000027	0.00000007	0.00000040	0.00000024	0.00000012	0.00000015	0.00000039	0.00004375
50 WHOLESALE PETRO	0.00042926	0.00004189	0.00012123	0.00049087	0.00071158	0.00446747	0.01221391	0.00074586
51 GENERAL WHOLESLE	0.00059983	0.00008481	0.00244448	0.00433668	0.00373652	0.00245352	0.00068693	0.00097759
52 LUMBERYARDS	0.00000165	0.00000695	0.00004121	0.00001149	0.00004484	0.00004099	0.00000298	0.00008539
53 AUTO TRACTOR DLR	0.00020530	0.00010720	0.00060219	0.00438990	0.01214394	0.00197569	0.00388667	0.00116650
54 HARDWARE HOME FR	0.00000771	0.00000321	0.00000955	0.0001968	0.00003925	0.00018245	0.00000191	0.00000588
55 DEPT. CLOTH VAR.	0.00000393	0.00000020	0.00002167	0.00003944	0.00003075	0.00001055	0.00000428	0.00000223
56 FOOD STORES	0.00000001	0.00000000	0.00000018	0.00000006	0.00000003	0.00000002	0.00000004	0.00000980
57 GAS. SERV. STA.	0.00018246	0.00001629	0.00003522	0.00149701	0.00000754	0.00015970	0.000005140	0.00023453

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58 EAT & DRINK PLCS	0.00000289	0.00000146	0.00141709	0.00000646	0.00000607	0.00008441	0.00001089	0.00000527
59 OTHER RETAIL	0.00003453	0.00000295	0.00005086	0.00001153	0.00000820	0.00003691	0.00001940	0.00001437
60 BANK & CREDIT AG	0.00145837	0.00024213	0.00386927	0.00734453	0.00573946	0.00087630	0.00458243	0.00605679
61 INS. CARRIERS	0.00674373	0.00003014	0.00040583	0.00022432	0.00034554	0.00066453	0.00012813	0.00020581
62 FIRE NOT CLASSFD	0.00196877	0.00104428	0.00115170	0.00142336	0.00084818	0.00013959	0.00057824	0.00199854
63 LEGAL SERVICES	0.00669785	0.00009463	0.00169641	0.00119504	0.00074157	0.00016601	0.00049986	0.00400592
64 LODGING SERVICES	0.00000294	0.00000091	0.00093178	0.00000831	0.00000410	0.00000961	0.00002966	0.00000314
65 PERSONAL SERVCS	0.00001949	0.00000952	0.00007246	0.00002134	0.00005870	0.00003064	0.00048333	0.00012858
66 OTHER BUS. SERV.	0.07784780	0.00188479	0.05401596	0.00369412	0.00174151	0.00025330	0.00076375	0.00040017
67 REPAIR SERV.	0.00044672	0.00003230	0.01284727	0.00133289	0.00029648	0.00036910	0.00321893	0.01331899
68 MEDICAL SERV.	0.00004899	0.00000994	0.00002934	0.00000524	0.00123103	0.00005470	0.00000561	0.00010425
69 EDUCATION SERV.	0.00005014	0.00000073	0.00001366	0.00000920	0.00000582	0.00000346	0.00000381	0.00003012
70 BOOKKEEPING SERV	0.00033958	0.00002510	0.00087219	0.00163729	0.00067414	0.00009100	0.00021953	0.00190144
71 ALL OTHER SVCS.	0.00082983	0.00006292	0.01062209	0.00630763	0.00157270	0.00081153	0.00279642	0.00038707
TOTAL	1.15167488	1.02057527	1.39728974	1.08754034	1.23357162	1.23709885	1.06502430	1.21679432

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTHEAST TEXAS, 1967

	49	50	51	52	53	54	55	56
1 CROP PRODUCTION	0.00000047	0.00001053	0.00000048	0.00000034	0.00000040	0.00000014	0.00000013	0.00000066
2 ANIM. & POULT.	0.00000051	0.00003334	0.00000025	0.00003024	0.00000012	0.00000014	0.00000016	0.00000016
3 AGRI. SUPPLYSVCS.	0.00000010	0.00000277	0.00000010	0.00000037	0.00000008	0.00000013	0.00000022	0.00000013
4 FORESTRY	0.0015626	0.00012434	0.0007465	0.00000037	0.00012345	0.00029066	0.0007426	0.00000053
5 FISHERIES	0.00006454	0.00015824	0.00009471	0.0000215	0.00000083	0.00000841	0.00000066	0.00000066
6 CRUDE PETROLEUM	0.00002751	0.00125472	0.00002183	0.00000274	0.00000136	0.00000506	0.00011824	0.00001584
7 OIL/GAS FLD. SVC	0.00000423	0.00013816	0.00000252	0.00000377	0.00000367	0.00000321	0.00000321	0.00000195
8 OTHER MINING	0.0015506	0.00009593	0.00021611	0.00005916	0.00012999	0.00003682	0.00007075	0.00022396
9 RES. COM. & INDS	0.0570787	0.00203530	0.00211424	0.00005640	0.00116378	0.00094821	0.00175542	0.00245849
10 FACILITY CONSTR.	0.00015080	0.00005625	0.0001486	0.0000038	0.00000017	0.00024290	0.00007702	0.000010867
11 MEAT & POULTRY	0.00000034	0.00000202	0.00000039	0.00000051	0.00000023	0.00000145	0.00000020	0.00000026
12 DAIRIES	0.00000040	0.00000118	0.00000052	0.00000051	0.00000023	0.00000145	0.00000020	0.00000026
13 GRAIN PRODUCTS	0.00000021	0.00001017	0.00000009	0.00000009	0.00000009	0.00000029	0.00000029	0.00000036
14 BAKERY PRODUCTS	0.00000018	0.00000043	0.00000023	0.00000022	0.00000010	0.00000081	0.00000010	0.00000016
15 PROD. FOOD & KIN	0.00118643	0.00010949	0.00006337	0.00001576	0.00001073	0.00042036	0.00003241	0.00000617
16 BEVERAGES	0.00001086	0.00015113	0.00001903	0.00000120	0.00000769	0.00001829	0.00007447	0.00005018
17 TFM. PPD. & APPR	0.00078591	0.00037351	0.0000165	0.00000179	0.00000195	0.00001336	0.00000311	0.00001451
18 LOGGING MILLS	0.01218671	0.00021201	0.0003844	0.00002048	0.000006189	0.00027346	0.00008766	0.00006135
19 LUMBER MILLS	0.00702590	0.00035000	0.0008023	0.0002173	0.00009716	0.00153932	0.00028925	0.00061790
20 MILLWORK	0.0030471	0.00095839	0.00033490	0.00001088	0.00041430	0.00015429	0.00015714	0.00070305
21 FURN. & FIXTURES	0.0010556	0.01086717	0.00001519	0.00000395	0.00001113	0.00002131	0.00001499	0.00001886
22 PAPER PRODUCTS	0.00090736	0.00525558	0.00011058	0.00006587	0.00003895	0.01046544	0.00410685	0.00132491
23 CHEMICALS	0.00089666	0.00212442	0.00008946	0.00004304	0.00012551	0.00028104	0.04446009	0.0017735
24 PETRO. PRODUCTS	0.00093271	0.04930794	0.00005119	0.00010006	0.00073804	0.00252516	0.00057942	0.00050610
25 RUB. PLAS. LEATH	0.00150412	0.00010526	0.00009093	0.00002140	0.00045916	0.00014445	0.00027644	0.00004337
26 GLASS CLAY STONE	0.00217936	0.00097242	0.00022961	0.00011884	0.00173748	0.00049937	0.00027844	0.00034933
28 CEMENT CONCRETE	0.00289930	0.00015925	0.00015925	0.00038699	0.00033869	0.00135668	0.00010378	0.00017866
29 METAL SMELT CAST	0.00293237	0.00026498	0.00145012	0.00149550	0.01068562	0.00735565	0.00233348	0.00171785
30 FARR. METAL PROD.	0.00049573	0.00012688	0.00015539	0.00001759	0.00007692	0.0010092	0.00002901	0.00003743
31 MACH. METAL PROD.	0.00104652	0.01393419	0.00109427	0.0005614	0.01175574	0.0045911	0.00202433	0.00143772
32 MACHINERY	0.00140558	0.00026297	0.00024115	0.00006482	0.000168497	0.00732669	0.00009347	0.0012785
33 ELECTRICAL APPAR	0.00000708	0.00012662	0.0000277	0.00000222	0.00002666	0.00000296	0.00000372	0.00003146
34 TRANS. EQUIP.	0.00033494	0.00046939	0.00013092	0.00061041	0.00024937	0.00000296	0.00000372	0.00003146
35 OTHER MANUFACT.	0.00024336	0.00023745	0.00006777	0.00037332	0.00000421	0.00094378	0.00007303	0.00008424
36 RAILROAD TRANS.	0.00139727	0.00093917	0.00279039	0.00003378	0.00001147	0.00001147	0.00021770	0.00019169
37 MOTOR TRANS.	0.00510285	0.00746924	0.00031930	0.00003040	0.00001182	0.000113192	0.00019434	0.00023370
38 WATER TRANS.	0.00003940	0.00266414	0.00000224	0.00000040	0.0000147	0.00001148	0.000027905	0.00000310
35 AIR TRANS.	0.00010467	0.00008254	0.00008214	0.00000459	0.00007054	0.00004123	0.00000825	0.00000025
40 PIPELINE TRANS.	0.00000034	0.00000003	0.00000002	0.00000000	0.00000000	0.00000006	0.00000002	0.00000002
41 OTHER TRANS.	0.00002835	0.00004455	0.00000667	0.00000317	0.00190819	0.00038225	0.00006742	0.00003401
42 TELEPHONE TELEGR	0.02499012	0.05441418	0.00860833	0.00407114	0.01912400	0.00332192	0.00487947	0.00295397
43 RADIO & TV	0.00161173	0.00157447	0.0004000	0.00023931	0.000087647	0.02248737	0.00285588	0.00026799
44 GAS	0.00533648	0.00404072	0.00024050	0.00215342	0.00058250	0.00510639	0.00148474	0.01988696
45 ELECTRICITY	0.02142493	0.01691795	0.00075455	0.00374603	0.00130950	0.02633682	0.00345092	0.07647523
46 WATER	0.00358720	0.00174237	0.00013642	0.00043615	0.00018950	0.00084974	0.00017551	0.0049767
47 WHOLES. EQ. SUP	0.00075736	0.00386695	0.00016452	0.00016157	0.000107094	0.00054640	0.00135144	0.00086254
48 WHOLES. GROCERY	0.00012374	0.00290285	0.00006165	0.00003944	0.00000807	0.000107309	0.00007861	0.00000095
49 WHOLES. FARM P	1.00000025	0.00002629	0.00000016	0.00000007	0.00000040	0.00000129	0.00000046	0.00000028
50 WHOLES. PETRO	0.00121412	1.000037858	0.00002505	0.00001588	0.00000340	0.00009490	0.00017981	0.00008157
51 GENERAL WHOLES	0.04431411	0.01090025	1.00183685	0.00138011	0.01924067	0.00346804	0.0316854	0.00240792
52 LUMBERYARDS	0.00012852	0.00005167	0.00000661	1.00000076	0.00005921	0.00143936	0.00002820	0.00007764
53 AUTO TRACTOR DIR	0.00043594	0.000127670	0.00009541	0.00000186	1.000016758	0.00954121	0.000033749	0.00006854
54 HARDWARE HOME FR	0.00002410	0.0001677	0.0000329	0.00000249	0.00000249	1.00001360	0.00000396	0.00001130
55 DEPT. CLOTH VAR.	0.00001051	0.000120842	0.00000529	0.00000473	0.00000001	0.00006765	1.00001009	0.00000476
56 FOOD STORES	0.00000059	0.000000134	0.00000004	0.00000002	0.00000001	0.00000050	0.00000004	1.00000001
57 GAS. SERV. STA.	0.01203604	0.00072607	0.000003527	0.000000914	0.000014758	0.000013302	0.00015707	0.00028261

58 EAT & DRINK PLCS	0.00006734	0.00037154	0.00000510	0.00000080	0.00001317	0.00003530	0.00001253	0.00000805
59 OTHER RETAIL	0.00006420	0.00011747	0.00001201	0.00001112	0.00006968	0.00014319	0.00003085	0.00003104
60 BANK & CREDIT AG	0.00868200	0.01257795	0.00578268	0.00048402	0.00648334	0.02271254	0.02481054	0.01040639
61 INS. CARRIERS	0.01295519	0.00073129	0.00273897	0.00085916	0.00357818	0.00227440	0.00166556	0.00019618
62 FIRE NOT CLASSFD	0.00085621	0.00486348	0.00151809	0.00009600	0.00561526	0.00145846	0.00594231	0.00400410
63 LEGAL SERVICES	0.00051425	0.00269703	0.00135207	0.00135452	0.00056295	0.00365033	0.00058337	0.00092484
64 LODGING SERVICES	0.00000864	0.00204220	0.00000305	0.00000215	0.00000516	0.00007375	0.00001348	0.00000342
65 PERSONAL SERV.	0.00013941	0.00013457	0.00300408	0.00000570	0.00033191	0.00002474	0.00001206	0.03462209
66 OTHER BUS. SERV.	0.01188671	0.00289094	0.00112882	0.01434718	0.00075766	0.00764719	0.00607967	0.00830152
67 REPAIR SERV.	0.00048071	0.00832286	0.00021758	0.00068901	0.00142678	0.00203486	0.00098293	0.01046770
68 MEDICAL SERV.	0.00011921	0.00002650	0.00002003	0.00001056	0.00000597	0.00004863	0.00001578	0.00003424
69 EDUCATION SERV.	0.00000797	0.00002212	0.00001031	0.00001014	0.00000455	0.00002783	0.00000464	0.00000713
70 BOOKKEEPING SERV	0.00175628	0.00258573	0.00093619	0.00158304	0.00161270	0.00222569	0.00295915	0.00289192
71 ALL OTHER SVCS.	0.00574032	0.13243987	0.00194073	0.00179472	0.00035075	0.05021263	0.00366475	0.00044903
TOTAL	1.26239474	1.39204347	1.07334765	1.04322067	1.13040822	1.30046386	1.15021221	1.14917108

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) :

SOUTHEAST

TEXAS, 1967

	57	58	59	60	61	62	63	64
1 CROP PRODUCTION	0.00000490	0.00000066	0.00007035	0.00000022	0.00000324	0.00000299	0.00002644	0.00000085
2 ANIM. & POULT.	0.00000269	0.00000024	0.00000162	0.00000037	0.00000304	0.00001261	0.00016453	0.00000086
3 AGRI. SUPP/SVCS.	0.00000098	0.00000013	0.00000011	0.00000005	0.00000069	0.00000092	0.00000072	0.00000018
4 FORESTRY	0.00015838	0.00008058	0.00022216	0.00019252	0.00003416	0.00005087	0.00001976	0.00001742
5 FISHERIES	0.00001283	0.00000067	0.00000127	0.00000294	0.00003174	0.00003129	0.00003159	0.00003111
6 CRUDE PETROLEUM	0.00010357	0.00001505	0.00011135	0.00001022	0.00002793	0.00004682	0.00000473	0.00003527
7 OIL/GAS FLD. SVC	0.00001153	0.00000184	0.00001232	0.00000138	0.00000421	0.00000735	0.00000064	0.00000485
8 OTHER MINING	0.00002164	0.00002138	0.00001866	0.00001866	0.000014725	0.000026116	0.00001186	0.00010875
9 RES. COM. & INDS	0.00561439	0.00248029	0.00139801	0.00700183	0.00085169	0.00179418	0.00052175	0.00324834
10 FACILITY CONSTR.	0.00001691	0.00010427	0.00008655	0.00022342	0.000062301	0.00029561	0.00003612	0.00010881
11 MEAT & POULTRY	0.00003021	0.00000040	0.00000267	0.00000959	0.00000482	0.00007970	0.00027292	0.00000121
12 DAIRIES	0.00000015	0.00000055	0.00000372	0.00000080	0.00000648	0.00002863	0.00038379	0.00000127
13 GRAIN PRODUCTS	0.00000082	0.00000037	0.00000043	0.00000013	0.00000107	0.00000361	0.00004327	0.00000071
14 BAKERY PRODUCTS	0.00000037	0.00000024	0.00000163	0.00000035	0.00000283	0.00001253	0.00016661	0.00000055
15 PRD. FOOD & KIN	0.00009118	0.00000428	0.00001673	0.00002245	0.00003786	0.00007892	0.00041837	0.00002400
16 BEVERAGES	0.00001326	0.00005002	0.00001832	0.00000957	0.00007885	0.012757197	0.00004707	0.00000661
17 TEX. PRD. & APPR	0.00007252	0.00001438	0.00004890	0.00000550	0.00000077	0.00005067	0.00000506	0.00003697
18 LOGGING	0.00008442	0.00005634	0.00004575	0.00009792	0.00002609	0.00127051	0.00001634	0.00047696
19 LUMBER MILLS	0.00121442	0.00053294	0.0003452	0.00153354	0.00021601	0.01459301	0.00011773	0.00710450
20 MILLWORK	0.00074745	0.00030816	0.0019861	0.00086635	0.00013628	0.01130033	0.00007368	0.00410145
21 FURN. & FIXTURES	0.00089597	0.00001657	0.00173126	0.0007805	0.00001898	0.00048169	0.00001911	0.00078268
22 PAPER PRODUCTS	0.00046593	0.00131957	0.02565792	0.00018686	0.00073759	0.00210981	0.00052727	0.00172719
23 PRINT & PUBLISH	0.00048482	0.00731337	0.00014661	0.00017885	0.00028840	0.0000403	0.00048956	0.00099717
24 CHEMICALS	0.00026950	0.00016537	0.00017246	0.00015811	0.00062840	0.0011996	0.00012090	0.00078664
25 PETRO. PRODUCTS	0.00405630	0.00047885	0.00236811	0.00037788	0.00099773	0.00186284	0.00017541	0.00116621
26 RUB. PLAS. LEATH	0.12314548	0.00004304	0.00038457	0.0001681	0.00010984	0.00033560	0.00000774	0.00005484
27 GLASS CLAY STONE	0.00028471	0.00024769	0.00012828	0.00046290	0.00120375	0.00349928	0.00016579	0.00154609
28 CEMENT CONCRETE	0.00029812	0.00017904	0.00265064	0.00038972	0.00024749	0.00469266	0.00005287	0.00174140
29 METAL SMELT CAST	0.00066790	0.00170441	0.00334607	0.00285815	0.01042039	0.00590721	0.00109338	0.00419516
30 FARR. METAL PROD.	0.00005863	0.00003413	0.00011475	0.00008194	0.00021218	0.00079615	0.00001412	0.00029035
31 MACH METAL PROD.	0.00122070	0.00041763	0.0017448	0.00172026	0.00242943	0.00233922	0.00142995	0.00233954
32 MACHINERY	0.00017507	0.00012645	0.00018042	0.00025411	0.00018763	0.00244156	0.00003345	0.00147613
33 ELECTRICAL APPAR	0.00001186	0.00000145	0.00000215	0.00000110	0.00000064	0.00001186	0.00000349	0.00000599
34 TRANS. EQUIP.	0.00009605	0.00008371	0.00012026	0.00095254	0.00007362	0.00056908	0.00003235	0.00028540
35 OTHER MANUFACT.	0.00003833	0.00019106	0.00014327	0.00029448	0.00084508	0.00045591	0.00005619	0.00025529
36 RAILROAD TRANS.	0.00119111	0.00018071	0.00020278	0.00020404	0.00101023	0.00047511	0.00046551	0.00030274
37 MOTOR TRANS.	0.00096659	0.00019130	0.00596585	0.00019532	0.00064084	0.00195514	0.00016419	0.00116336
38 WATER TRANS.	0.00021600	0.00002290	0.00000539	0.00000492	0.00000547	0.00005994	0.00000118	0.00002344
39 AIR TRANS.	0.00002357	0.00000740	0.00004695	0.00001998	0.00004752	0.00015981	0.00002733	0.00007901
40 PIPELINE TRANS.	0.00000003	0.00000002	0.00000003	0.00000004	0.00000001	0.00000005	0.00000000	0.00000002
41 OTHER TRANS.	0.00003549	0.00003389	0.00028769	0.00006978	0.00010133	0.00005965	0.00000349	0.00010350
42 TELEPHONE TELEGR	0.01506994	0.00294803	0.01037542	0.00639853	0.00485926	0.03101943	0.02359195	0.03044593
43 RADIO & TV	0.00015385	0.00026430	0.0201510	0.00242304	0.00026775	0.00070409	0.00017488	0.00589465
44 GAS	0.00169595	0.01982161	0.00073104	0.00261324	0.00117400	0.01839516	0.00610978	0.00758431
45 ELECTRICITY	0.00382156	0.02638340	0.00098349	0.00536171	0.00399821	0.04545403	0.00208680	0.02811730
46 WATER	0.00043798	0.00458207	0.00023030	0.00055247	0.00046840	0.00080694	0.00026141	0.00454578
47 WHOLES. EQ. SUP	0.00657502	0.00084374	0.00074275	0.00015821	0.00113455	0.00100755	0.00017916	0.00091678
48 WHOLES. GROCERY	0.00023364	0.00001000	0.00001200	0.00005110	0.00042930	0.00047344	0.00029504	0.00075246
49 WHOLES. FARM P	0.00000217	0.00000028	0.00000028	0.00000014	0.00000173	0.00000607	0.00001788	0.00007342
50 WHOLES. PETRO	0.07977349	0.00008006	0.00018810	0.00003391	0.00018144	0.00045304	0.00001868	0.00014532
51 GENERAL WHOLESLE	0.00095513	0.00240216	0.00517012	0.00555405	0.03331865	0.00572540	0.01520942	0.00354614
52 LUMBERYARDS	0.00001585	0.00000649	0.00003271	0.00001398	0.00000708	0.00017794	0.00000290	0.00006691
53 AUTO TRACTOR DLR	0.00028856	0.00066603	0.00063344	0.00015031	0.00033749	0.00119336	0.00014859	0.00090765
54 HARDWARE HOME FR	0.00000325	0.00001112	0.00000254	0.00000308	0.00100502	0.00007717	0.00003331	0.00001357
55 DEPT. CLOTH VAR.	0.00000697	0.00000182	0.00001302	0.00000308	0.00012559	0.00003225	0.00001404	0.00038672
56 FOOD STORES	0.00000011	0.00000001	0.00000001	0.00000003	0.00000027	0.00000027	0.00000027	0.00000026
57 GAS. SERV. STA.	1.000049523	0.00027758	0.00000275	0.00009489	0.00020953	0.00236501	0.00002818	0.00024526

58 EAT & DRINK PLCS	0.00003599	1.00000802	0.00003266	0.00001275	0.00001091	0.00114320	0.00001278	0.00004788
59 OTHER RETAIL	0.00004417	0.00003087	1.00002439	0.00001679	0.00007583	0.00013654	0.00037137	0.00005719
60 BANK & CREDIT AG	0.00114899	0.01037277	0.00548564	1.00169646	0.00249055	0.15315119	0.00105377	0.02673829
61 INS. CARRIERS	0.00070728	0.00019421	0.00158542	0.00055474	1.00191115	0.00457247	0.00129943	0.00060050
62 FIRE NOT CLASSFD	0.00042030	0.00399141	0.00146012	0.00075996	0.00629134	1.00339605	0.00375597	0.00052545
63 LEGAL SERVICES	0.00032034	0.00143106	0.00985441	0.00205658	0.01717492	0.07512374	1.01115125	0.00300236
64 LOGGING SERVICES	0.00016300	0.00000340	0.00002090	0.00000508	0.00002328	0.00060818	0.00001504	1.00001615
65 PERSONAL SERVS	0.00001789	0.03451475	0.00004301	0.00001873	0.00002163	0.00006434	0.00005560	0.00222106
66 OTHER BUS. SERV.	0.00100341	0.00827291	0.00646258	0.01903517	0.03992672	0.02341584	0.00028196	0.00786921
67 REPAIR SERV.	0.00151331	0.01041892	0.00261579	0.00022836	0.00136994	0.00094824	0.00212299	0.00700532
68 MEDICAL SERV.	0.00000999	0.00003391	0.00001229	0.00001056	0.00686443	0.00009389	0.00001151	0.00004114
69 EDUCATION SERV.	0.00000295	0.00001089	0.00007385	0.00001589	0.00012856	0.00056860	0.00756415	0.00002486
70 BOOKKEEPING SERV	0.00031598	0.00287880	0.00127791	0.00088033	0.00099290	0.01065791	0.00016326	0.00019988
71 ALL OTHER SVCS.	0.01065733	0.00045105	0.00052847	0.00238125	0.01842661	0.02102695	0.01274464	0.01010481
TOTAL	1.26875442	1.14754059	1.12207961	1.06845868	1.24262838	1.58178492	1.09410450	1.21750687

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTHEAST TEXAS, 1967

	65	66	67	68	69	70	71
1 CROP PRODUCTION	0.0000012	0.0000617	0.0000020	0.0000206	0.00348004	0.0000017	0.00000344
2 ANIM. & POULT.	0.0000012	0.0000016	0.0000010	0.0000004	0.02174112	0.0000014	0.00001147
3 AGRI. SUPPLIES	0.0000003	0.0000016	0.0000010	0.0000008	0.00128364	0.0000004	0.00000091
4 FORESTRY	0.0000202	0.0000002	0.0000000	0.0000000	0.00045008	0.0000000	0.00043050
5 FISHERIES	0.0000023	0.0000002	0.0000000	0.0000000	0.00021837	0.0000000	0.00129069
6 CRUDE PETROLEUM	0.00001179	0.00001247	0.0000073	0.0000071	0.00000070	0.00000044	0.000017546
7 OIL/GAS FLD. SVC	0.00000164	0.00000234	0.0000023	0.0000024	0.00001040	0.00000074	0.00002031
8 OTHER MINING	0.0000423	0.00000583	0.0000054	0.0000054	0.00006574	0.00000553	0.00019773
9 RES. COM. & INDS	0.0007609	0.00040940	0.00046314	0.00140314	0.01234304	0.00003522	0.00023122
10 FACILITY CONSTR.	0.00015315	0.01147874	0.00016034	0.00242497	0.00009711	0.00001955	0.00018277
11 MEAT & POULTRY	0.00000016	0.00000037	0.00000004	0.000000347	0.00000708	0.00000117	0.00001017
12 DAIRIES	0.00000020	0.00000064	0.00000009	0.00000165	0.00035644	0.00000019	0.00000103
13 GRAIN PRODUCTS	0.00000007	0.00000016	0.00000005	0.00000145	0.00056418	0.00000018	0.00000103
14 BAKERY PRODUCTS	0.00000009	0.00000016	0.00000005	0.00000066	0.00065418	0.00000009	0.00000127
15 PROD. FOOD & KIN	0.00002473	0.00005546	0.0000177	0.00000094	0.02203230	0.00000009	0.00000022
16 BEVERAGES	0.00006893	0.00002489	0.00002578	0.0001157	0.04116214	0.00000009	0.00000022
17 TEX. APP. & APPR	0.00000090	0.00000075	0.00000146	0.000212457	0.00008711	0.00000121	0.000006017
18 LOGGING	0.00001290	0.00004322	0.00000667	0.00029253	0.00034633	0.00001106	0.000369117
19 LUMBER MILLS	0.00017288	0.00041830	0.00007395	0.000152080	0.00325895	0.00013792	0.00061169
20 MILLWORK	0.00006943	0.00026123	0.00004374	0.00055918	0.00267224	0.00000006	0.00020724
21 FURN. & FIXTURES	0.00000961	0.00022232	0.00001648	0.00031572	0.00211308	0.00000998	0.00002471
22 PAPER PRODUCTS	0.00011435	0.00026079	0.00006945	0.01103806	0.00045151	0.00015868	0.000858767
23 PRINT & PUBLISH	0.00032663	0.0006209	0.0011010	0.01644805	0.00242951	0.00020529	0.00484300
24 CHEMICALS	0.00021756	0.00007339	0.000173445	0.000173445	0.00291353	0.00010137	0.00112709
25 PETRO. PRODUCTS	0.00044055	0.000230437	0.0002304	0.00028534	0.00225834	0.00019605	0.000360569
26 RUB. PLAS. LEATH	0.00035477	0.00030905	0.00120110	0.0000773	0.00017626	0.00004879	0.00016155
27 GLASS CLAY STONE	0.00042715	0.00087006	0.00040197	0.00158302	0.00081080	0.00049602	0.00257608
28 CEMENT CONCRETE	0.00014826	0.00014427	0.00033511	0.00052625	0.00011031	0.00054750	0.000011031
29 METAL SMLT CAST	0.00403762	0.0487537	0.00619138	0.00619138	0.00417834	0.00420267	0.01810319
30 FERR. METAL PROD.	0.00030366	0.00000748	0.00005855	0.00004679	0.00004679	0.00004639	0.00001518
31 MACH. METAL PROD.	0.00482895	0.00087031	0.00000748	0.00005855	0.00004679	0.00004639	0.00001518
32 MACHINERY	0.00007242	0.00242847	0.00026602	0.00592077	0.00421504	0.00020493	0.00031757
33 ELECTRICAL APPAR	0.00000234	0.0000221	0.00004512	0.00003612	0.00003612	0.00000191	0.00000532
34 TRNS. EQUIP.	0.00123035	0.00004545	0.00213682	0.00003776	0.00049033	0.00001983	0.00018198
35 OTHER MANUFACT.	0.00009296	0.00002569	0.00002569	0.00022863	0.00633203	0.00002023	0.00028148
36 RAILROAD TRANS.	0.00034997	0.00025441	0.00025441	0.00055737	0.00190552	0.00024251	0.00185328
37 MOTOR TRANS.	0.00019339	0.0012330	0.00129483	0.00141699	0.00576173	0.00014442	0.00050741
38 WATER TRANS.	0.00000284	0.00000027	0.00000452	0.0001687	0.00005926	0.00000264	0.00001434
39 AIR TRANS.	0.00000000	0.00004539	0.00000736	0.00007525	0.00121039	0.00001592	0.00008331
40 PIPELINE TRANS.	0.00000000	0.00000002	0.00000000	0.00007600	0.00000011	0.00000000	0.00000010
41 OTHER TRANS.	0.0004507	0.00196343	0.00079397	0.00007600	0.00004693	0.00000209	0.00021950
42 TELEPHONE TELEGR	0.00243448	0.01019330	0.0005024	0.00245721	0.01748311	0.01157963	0.04674371
43 RADIO & TV	0.00008893	0.00051369	0.00017686	0.00452904	0.00216844	0.00004549	0.01270371
44 GAS	0.00927028	0.00217759	0.00019157	0.00265233	0.01282555	0.00037139	0.02941641
45 ELECTRICITY	0.02056685	0.00744849	0.00141022	0.01162822	0.01282555	0.03108418	0.17043919
46 WATER	0.00406095	0.00032259	0.00006048	0.00074235	0.00628402	0.00015011	0.01185684
47 WHOLES. EQ. SUP	0.00743453	0.00351414	0.0063187	0.02291845	0.01640922	0.00422634	0.00236495
48 WHOLES. GROCERY	0.00005633	0.00013637	0.00036279	0.00572611	0.00781361	0.00008954	0.00360212
49 WHOLESALE FARM P	0.00000041	0.00000039	0.00000020	0.0000202	0.000230162	0.00007044	0.00002200
50 WHOLESALE PETRO	0.00034940	0.00027124	0.00121213	0.00037645	0.00061561	0.00060239	0.00044395
51 GENERAL WHOLESLE	0.00710053	0.00314664	0.00082088	0.00875284	0.03856783	0.00613505	0.03030341
52 LUMBERYARDS	0.00006320	0.00001399	0.00000698	0.00022720	0.00018405	0.00000207	0.00000029
53 AUTO TRACTOR DLR	0.00494555	0.00201248	0.00056473	0.00178648	0.000145675	0.00007416	0.000897089
54 HAPNRAE HOME FR	0.00001195	0.00000542	0.000003077	0.11557283	0.00013628	0.0000181	0.00005773
55 DEPT. CLOTH.VAR.	0.00001676	0.00000452	0.00000614	0.00004444	0.00001863	0.00001109	0.000129056
56 FOOD STORES	0.00000003	0.00000037	0.00000002	0.00001273	0.000001892	0.00000004	0.00001096
57 GAS, SERV. STA.	0.00242367	0.00222495	0.00345747	0.00021685	0.000354964	0.000070550	0.00042217

58 EAT & DRINK PLCS	0.00000826	0.00000517	0.00000335	0.00002212	0.00104372	0.00000805	0.00002730
59 OTHER RETAIL	0.00026314	0.00039930	0.00072069	0.00015873	0.00078789	0.00000443	0.00068871
60 BANK & CREDIT AG	0.00278917	0.01305386	0.00500015	0.00580500	0.00308205	0.00104854	0.02976786
61 INS. CARRIERS	0.00303027	0.00308232	0.00043545	0.00142297	0.00196669	0.00082688	0.00209992
62 FIRE NOT CLASSFD	0.00549882	0.00199183	0.00204756	0.00993904	0.00584733	0.00572705	0.00046764
63 LEGAL SERVICES	0.00051452	0.00112374	0.00021919	0.00395270	0.00219529	0.00046759	0.00127573
64 LODGING SERVICES	0.00000653	0.00000848	0.00000568	0.00003942	0.00001607	0.00000873	0.00109749
65 PERSONAL SVCS	1.00002980	0.00001633	0.00002244	0.01424256	0.00126534	0.00023233	0.00012095
66 OTHER BUS. SERV.	0.00585231	1.00535841	0.00066829	0.00198384	0.00573190	0.00023229	0.00192792
67 REPAIR SERV.	0.02945037	0.00423632	1.00019212	0.00128727	0.00174969	0.00016724	0.01469120
68 MEDICAL SERV.	0.00004656	0.00003149	0.00000376	1.00002451	0.00004471	0.00000781	0.00017504
69 EDUCATION SERV.	0.00000391	0.00000862	0.00000167	0.00003009	1.00003059	0.00000354	0.00000976
70 BOOKKEEPING SERV	0.00114219	0.00147729	0.00007961	0.00190116	0.00032514	1.00010374	0.00848238
71 ALL OTHER SVCS.	0.00261289	0.00639596	0.00199120	0.02875900	0.00423074	0.00417815	1.10522450
TOTAL	1.12534431	1.16072402	1.07959572	1.38149589	1.40242512	1.06507086	1.61407042





58 EAT & DRINK PLCS	0.00773440	0.00544989	0.00801091	0.01449698	0.01602172	0.01238503	0.02248403	0.01279847
59 OTHER RETAIL	0.01189205	0.00853285	0.01211760	0.02251118	0.02487860	0.01752560	0.01887972	0.01977161
60 BANK & CREDIT AG	0.05199017	0.03690424	0.01272651	0.01473511	0.01594675	0.01214512	0.01781444	0.01288614
61 INS. CARRIERS	0.00624143	0.00901104	0.00356087	0.00426927	0.00512587	0.00427119	0.00550251	0.00341081
62 FIRE NOT CLASSFD	0.00135420	0.00113832	0.00105645	0.00151505	0.00158699	0.00134812	0.00141971	0.00130476
63 LEGAL SERVICES	0.00270717	0.00232807	0.00265024	0.00432921	0.00506679	0.00514264	0.00390918	0.00381735
64 LODGING SERVICES	0.00094226	0.00028021	0.00389865	0.00039572	0.00044339	0.00040628	0.00097029	0.00034575
65 PERSONAL SEVCS	0.00737306	0.00521070	0.00725552	0.01376654	0.01547899	0.01076357	0.01172518	0.01207211
66 OTHER BUS. SERV.	0.01011460	0.00576770	0.03506604	0.00284656	0.00303582	0.00849227	0.03304526	0.00307378
67 REPAIR SERV.	0.00507795	0.00350234	0.00812630	0.00552774	0.00474532	0.00390537	0.00770298	0.00391058
68 MEDICAL SERV.	0.01220433	0.00871165	0.01213424	0.02319963	0.02564029	0.01804628	0.01917097	0.02037862
69 EDUCATION SERV.	0.01086330	0.00772270	0.01081866	0.02073250	0.02290662	0.01511686	0.01712827	0.01820646
70 BOOKKEEPING SERV	0.00157578	0.00130496	0.00190485	0.00212945	0.00324572	0.01373909	0.00244784	0.00191681
71 ALL OTHER SVCS.	0.02802009	0.01933944	0.03217707	0.04568652	0.05068088	0.04005476	0.00704802	0.04006273
72 HOUSEHOLDS	0.55281510	0.39275777	0.55059940	1.05515294	1.16611458	0.81983533	0.67190615	0.92492043
TOTAL	2.75727523	2.47491012	2.41602162	2.91990614	3.12318396	2.69197163	2.69731777	2.76788581



58 EAT & DRINK PLCS	0.00906777	0.01002431	0.00555347	0.02571053	0.00271384	0.00485739	0.00445377	0.00582303
59 OTHER RETAIL	0.01323402	0.01905681	0.00891889	0.00655921	0.00459418	0.00692169	0.00742703	0.00903968
60 BANK & CREDIT AG	0.02173141	0.01688819	0.02705464	0.00438771	0.00361007	0.00507615	0.00531943	0.00599476
61 INS. CARRIERS	0.00411211	0.00744281	0.00659990	0.00236040	0.00158212	0.00197618	0.00488356	0.00245778
62 FIRE NOT CLASSFD	0.00149306	0.00197555	0.00101795	0.00056635	0.00131184	0.00057349	0.00063768	0.00065069
63 LEGAL SERVICES	0.00432688	0.00357142	0.00234552	0.00276109	0.00218872	0.00161011	0.00164870	0.00231888
64 LODGING SERVICES	0.00022001	0.00027227	0.00027562	0.00011329	0.00008138	0.00013827	0.00014109	0.00263140
65 PERSONAL SVCS	0.00756149	0.00942969	0.00544641	0.00462021	0.00260632	0.00408615	0.00424883	0.00553300
66 OTHER BUS. SERV.	0.00406250	0.00637217	0.00505057	0.00123972	0.00322908	0.01458289	0.00250186	0.00647530
67 REPAIR SERV.	0.00773343	0.00360453	0.00324619	0.00150804	0.00236127	0.00559869	0.00166910	0.00193394
68 MEDICAL SERV.	0.01276083	0.01595005	0.00888038	0.00655935	0.00433894	0.00687334	0.00715303	0.00932802
69 EDUCATION SERV.	0.01140137	0.01422368	0.00787802	0.00583953	0.00386814	0.00613178	0.00632472	0.00832309
70 BOOKKEEPING SERV	0.00179236	0.00194940	0.00127562	0.00124294	0.00092712	0.00088447	0.00115425	0.00199389
71 ALL OTHER SVCS.	0.02699083	0.03409866	0.01938056	0.01280965	0.01057310	0.01379643	0.01433000	0.01866112
72 HOUSEHOLDS	0.57603445	0.72319788	0.40059879	0.29671360	0.19636229	0.31190264	0.32187279	0.42352064
TOTAL	2.70106044	2.58992567	2.96284374	1.68878765	1.47643259	1.73016932	1.78230057	1.87931172



58 EAT & DRINK PLCS	0.00925626	0.01058844	0.00611799	0.00592868	0.00557218	0.00324392	0.00510798	0.00118841
59 OTHER RETAIL	0.01453995	0.01666188	0.00990075	0.00950445	0.01101386	0.00543141	0.00906912	0.00183235
60 BANK & CREDIT AG	0.00925327	0.01427390	0.00677427	0.00691539	0.00899770	0.00708029	0.00582575	0.00199543
61 INS. CARRIERS	0.00417733	0.00478334	0.00239344	0.00560648	0.00915164	0.00171976	0.00294268	0.00280260
62 FIRE NOT CLASSFD	0.00101506	0.00119027	0.00076065	0.00119554	0.00195215	0.00059720	0.00059543	0.00032011
63 LEGAL SERVICES	0.00285466	0.00412099	0.00229210	0.00414738	0.00790481	0.00126634	0.00221011	0.00058837
64 LODGING SERVICES	0.00025325	0.00029460	0.00017298	0.00018445	0.00015359	0.00008990	0.00017057	0.00003497
65 PERSONAL SERV.	0.00877285	0.01005488	0.00581204	0.00561123	0.00536635	0.00309474	0.00487739	0.00112494
66 OTHER BUS. SERV.	0.00210051	0.00233384	0.00161922	0.00364757	0.00343045	0.00242082	0.00515912	0.00275915
67 REPAIR SERV.	0.00273116	0.01490979	0.00612454	0.01183754	0.56502835	0.00136871	0.01256269	0.00064721
68 MEDICAL SERV.	0.01483824	0.01695370	0.00980070	0.01007611	0.00894055	0.00515052	0.00820658	0.00195361
69 EDUCATION SERV.	0.01323399	0.01515071	0.00908534	0.00851689	0.00798070	0.00459173	0.00730573	0.00168042
70 BOOKKEEPING SERV	0.00690016	0.00201139	0.00114640	0.00171527	0.01726849	0.00064380	0.00156343	0.00033132
71 ALL OTHER SVCS.	0.03272175	0.03385994	0.02151858	0.02113001	0.01887234	0.01131653	0.01977156	0.00552929
72 HOUSEHOLDS	0.67373236	0.77056691	0.44510684	0.42885477	0.40393413	0.23352582	0.37168765	0.08520872
TOTAL	2.24900359	3.05268414	2.07281095	2.47676166	2.50531953	1.62624820	1.75445491	1.37059903



58 EAT & DRINK PLCS	0.00081913	0.00464997	0.00697106	0.00265634	0.00486246	0.00640713	0.00408233	0.00531449
59 OTHER RETAIL	0.00122815	0.00743369	0.00735967	0.00416632	0.00755301	0.01080265	0.00647084	0.00827324
60 BANK & CREDIT AG	0.00087198	0.00548888	0.00515261	0.00284075	0.00537983	0.00958705	0.00438071	0.00584169
61 INS. CARRIERS	0.00032973	0.00472725	0.00276513	0.00249405	0.00182007	0.00208722	0.00169702	0.00227748
62 FIRE NOT CLASSFD	0.00009467	0.00067004	0.00211203	0.00037016	0.00052537	0.00086456	0.00051188	0.00059795
63 LEGAL SERVICES	0.00033139	0.00218279	0.00293450	0.00168348	0.00176556	0.00233381	0.00157167	0.00235025
64 LODGING SERVICES	0.00002399	0.00012524	0.00012558	0.00007298	0.00013139	0.00017870	0.00011751	0.0001595
65 PERSONAL SERV	0.00075383	0.00439225	0.00448233	0.00263785	0.00466545	0.00619377	0.00423226	0.00510298
66 OTHER BUS. SERV.	0.00042402	0.00738438	0.00150817	0.00176364	0.00126353	0.01624762	0.00232335	0.00299826
67 REPAIR SERV.	0.00044621	0.00849652	0.00201369	0.00250077	0.00554860	0.04690351	0.01341819	0.00425513
68 MEDICAL SERV.	0.00126350	0.00740677	0.00732218	0.00429345	0.00782279	0.01124707	0.00654068	0.00860337
69 EDUCATION SERV.	0.00112628	0.00658004	0.00652545	0.00380036	0.00695765	0.00912401	0.00583222	0.00760164
70 BOOKKEEPING SERV	0.00043197	0.00158591	0.00153023	0.00098252	0.00072745	0.00152264	0.00099612	0.00076178
71 ALL OTHER SVCS.	0.00266901	0.01507983	0.01518666	0.00857846	0.01594866	0.02500808	0.01472224	0.02509577
72 HOUSEHOLDS	0.05728090	0.33452217	0.33161857	0.19313931	0.35390216	0.46435769	0.29678184	0.38671675
TOTAL	1.18895599	1.89613955	1.97475047	1.49149765	1.70657366	2.02949593	1.65405944	1.87256315





58 EAT & DRINK PLCS	0.01060442	0.00359786	0.00374256	0.01118448	0.00705579	0.00710605	0.01530733	0.00769289
59 OTHER RETAIL	0.01828291	0.00575271	0.00604286	0.01728986	0.01092802	0.01104121	0.02376397	0.01181876
60 BANK & CREDIT AG	0.01672592	0.00389595	0.00538841	0.01713309	0.00943168	0.03482712	0.01482097	0.00830305
61 INS. CARRIERS	0.00280063	0.00460649	0.00323604	0.00353331	0.00881980	0.02942473	0.00410920	0.00231594
62 FIRE NOT CLASSFD	0.00110727	0.00043279	0.00045980	0.00307323	0.00522181	0.01104663	0.00144280	0.00191561
63 LEGAL SERVICES	0.01229999	0.00374142	0.00191506	0.00366531	0.00862173	0.00945961	0.00443984	0.00316522
64 LODGING SERVICES	0.00028453	0.00009770	0.00010853	0.00029962	0.00024889	0.00020901	0.00041201	0.00020733
65 PERSONAL SERVS	0.01005012	0.00344190	0.00358617	0.01943907	0.00671019	0.00726187	0.01450888	0.00720355
66 OTHER BUS. SERV.	0.00207710	0.00111975	0.00343385	0.00670255	0.00259668	0.00665665	0.00275421	0.00184733
67 REPAIR SERV.	0.00303146	0.00133190	0.01632736	0.00432224	0.00254079	0.00509135	0.00436538	0.00273021
68 MEDICAL SERV.	0.01698207	0.00580350	0.00605396	0.01773683	0.01130994	0.01154768	0.02449463	0.01216789
69 EDUCATION SERVS	0.01523075	0.00516298	0.00535327	0.01583797	0.01009665	0.01084183	0.02188571	0.01084888
70 BOOKKEEPING SERV	0.01059727	0.00461786	0.00264733	0.00173762	0.00389039	0.00284081	0.00216280	0.00142249
71 ALL OTHER SVCS.	0.03313622	0.01151768	0.01916235	0.03490694	0.02690814	0.02921270	0.04766966	0.02439097
72 HOUSEHOLDS	0.77195072	0.26184005	0.27223897	0.80585103	0.51148315	0.51464373	1.11429689	0.55187072
TOTAL	2.40693264	1.58723252	1.64289001	2.76063662	2.15449211	2.57872662	2.96195989	2.22044093

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTHEAST, TEXAS, 1967

Table with 9 columns (41-48) and 57 rows of interdependence coefficients for various economic sectors in Southeast Texas, 1967. Sectors include Crop Production, Fisheries, Petroleum, Agriculture, etc.

58 EAT & DRINK PLCS	0.00659950	0.00454120	0.01166929	0.00321421	0.00245442	0.00767045	0.00829687	0.01341319
59 OTHER RETAIL	0.01027579	0.00705091	0.01596743	0.00499157	0.00380928	0.01181428	0.01288342	0.02083022
60 BANK & CREDIT AG	0.00783438	0.00463006	0.01377952	0.01044501	0.00910594	0.00820866	0.01259133	0.01901635
61 INS. CARRIERS	0.00946684	0.00121597	0.00308382	0.00106222	0.00098508	0.00264609	0.00229252	0.00370810
62 FIRE NOT CLASSFD	0.00258601	0.00146907	0.00211100	0.00172351	0.00107728	0.00084971	0.00145355	0.00325311
63 LEGAL SERVICES	0.00860740	0.00140877	0.00466416	0.00212361	0.00145031	0.00236198	0.00289844	0.00788718
64 LODGING SERVICES	0.00017972	0.00012246	0.00120652	0.00009427	0.00006971	0.00021290	0.00025171	0.00036244
65 PERSONAL SERVS	0.00627052	0.00431144	0.00978757	0.00306104	0.00237979	0.00721927	0.00834023	0.01283409
66 OTHER BUS. SERV.	0.07902767	0.00269677	0.05584967	0.00426786	0.00217942	0.00161015	0.00224579	0.00279832
67 REPAIR SERV.	0.00232265	0.00132331	0.01576277	0.00224510	0.00099274	0.00252641	0.00557528	0.01713191
68 MEDICAL SERV.	0.01040478	0.00727437	0.01643474	0.00513822	0.00514885	0.01219377	0.01326471	0.02155939
69 EDUCATION SERV.	0.00948209	0.00649173	0.01467244	0.00459570	0.00350652	0.01095013	0.01185126	0.01920101
70 BOOKKEEPING SERV	0.00126876	0.00066455	0.00231629	0.00208912	0.00101903	0.00115955	0.00138668	0.00379005
71 ALL OTHER SVCS.	0.02131878	0.01416327	0.04246522	0.01627083	0.00917724	0.02437365	0.02853252	0.04203182
72 HOUSEHOLDS	0.48022367	0.33048668	0.74634512	0.23351950	0.17823668	0.55225325	0.60320748	0.97607742
TOTAL	1.99316294	1.59968167	2.70509805	1.49673273	1.54589303	2.20480316	2.12201488	2.92715877



58 EAT & DRINK PLCS	0.01048567	0.00983925	0.01100678	0.01020076	0.00894451	0.01011935	0.00883024	0.00780451
59 OTHER RETAIL	0.01623871	0.01481613	0.01709217	0.01584661	0.01393563	0.01579871	0.01372038	0.01213508
60 BANK & CREDIT AG	0.01875194	0.02172906	0.01641647	0.01034289	0.01511602	0.03245937	0.03333338	0.01794214
61 INS. CARRIERS	0.01567657	0.00320436	0.00561274	0.00352351	0.00291115	0.00490846	0.00397184	0.00223270
62 FIRE NOT CLASSFD	0.00183106	0.00574937	0.00254751	0.00105041	0.00545096	0.00240203	0.00676738	0.00473362
63 LEGAL SERVICES	0.00353010	0.00543770	0.00453578	0.00430715	0.00314835	0.00656941	0.00313587	0.00318172
64 LODGING SERVICES	0.00028783	0.00229591	0.00029787	0.00027549	0.00024450	0.00034399	0.00024678	0.00021235
65 PERSONAL SERVCS	0.01001196	0.00910629	0.01342942	0.00967132	0.00379536	0.00958051	0.00936701	0.00920101
66 OTHER BUS. SERV.	0.01375014	0.00458434	0.00309659	0.01617155	0.00235513	0.00945082	0.00765681	0.00969600
67 REPAIR SERV.	0.00344345	0.01101527	0.00334622	0.00358966	0.00396665	0.00490254	0.01249049	0.01268484
68 MEDICAL SERV.	0.01679046	0.01517658	0.01762475	0.01633238	0.01429777	0.01618496	0.01412574	0.01251002
69 EDUCATION SERV.	0.01490430	0.01355924	0.01574073	0.01459424	0.01277475	0.01444618	0.01261237	0.01115466
70 BOOKKEEPING SERV	0.00322379	0.00391933	0.00248587	0.00301979	0.00287075	0.00364611	0.00420120	0.00399012
71 ALL OTHER SVCS.	0.03809947	0.16184640	0.03611176	0.03347562	0.02909133	0.08153349	0.03105240	0.02466469
72 HOUSEHOLDS	0.75843969	0.68923593	0.80090703	0.74254294	0.65018903	0.73410405	0.64191667	0.56757132
TOTAL	2.59139618	2.59978029	2.47676190	2.34436649	2.26972379	2.58682235	2.27503226	2.14371699



58 EAT & DRINK PLCS	0.01112560	1.00825685	0.00974417	0.01288791	0.01066515	0.00810720	0.00989498	0.00928764
59 OTHER RETAIL	0.01726083	0.01283722	1.01510154	0.02000553	0.01661659	0.01094817	0.01571351	0.01440196
60 BANK & CREDIT AG	0.01186776	0.01834576	0.01487239	1.01414107	0.01278952	0.15998231	0.01060550	0.03566908
61 INS. CARRIERS	0.00360401	0.00234890	0.00412218	0.00391788	1.00469416	0.00639154	0.00388077	0.00301403
62 FIRE NOT CLASSFD	0.00145796	0.00476325	0.00236883	0.00196469	0.00728826	1.00404767	0.00468064	0.00139001
63 LEGAL SERVICES	0.00353050	0.00381889	0.01266565	0.00578361	0.02025906	0.07713964	1.01401190	0.00567704
64 LODGING SERVICES	0.00046018	0.00022445	0.00028115	0.00035011	0.00030879	0.00079480	0.00027986	1.00026376
65 PERSONAL SERVS	0.01052655	0.04233145	0.00924575	0.01221940	0.0101273	0.00666351	0.00942009	0.01097678
66 OTHER BUS. SERV.	0.00298690	0.00974830	0.00819958	0.02133803	0.04073234	0.02465143	0.00204949	0.00952184
67 REPAIR SERV.	0.00466695	0.01276471	0.00537702	0.00388977	0.00439977	0.00292865	0.00302327	0.00963291
68 MEDICAL SERV.	0.01775542	0.01323357	0.01555249	0.02061319	0.02391319	0.01123757	0.01582485	0.01482647
69 EDUCATION SERV.	0.01585908	0.01180523	0.01395954	0.01842504	0.01536220	0.01052586	0.02169390	0.01323606
70 BOOKKEEPING SERV	0.00187904	0.00404072	0.00264085	0.00259390	0.00249364	0.01163885	0.09155525	0.00150137
71 ALL OTHER SVCS.	0.04510146	0.02607178	0.03069222	0.04237126	0.05151851	0.04265700	0.04353955	0.03880336
72 HOUSEHOLDS	0.80730794	0.60050364	0.70698375	0.93729344	0.77561406	0.50696917	0.71940972	0.67264201
TOTAL	2.68338689	2.19979327	2.36091564	2.71086261	2.60172417	2.47013868	2.35471437	2.39616643





58 EAT & DRINK PLCS	0.00631224	0.00617248	0.00725679	0.01091717	0.01365241	0.01126804	0.00683116	0.01790965
59 OTHER RETAIL	0.01005009	0.00997408	0.01198170	0.01707335	0.01996293	0.01748581	0.01125173	0.02780481
60 BANK & CREDIT AG	0.00888234	0.01901494	0.01301104	0.01633572	0.01526910	0.01193199	0.03634420	0.01731075
61 INS. CARRIERS	0.00467693	0.00469329	0.00233013	0.00426988	0.00526022	0.00376811	0.00387717	0.00467820
62 FIRE NOT CLASSFD	0.00608869	0.00255891	0.00272627	0.01695848	0.00802395	0.00678066	0.00110427	0.00167580
63 LEGAL SERVICES	0.00233937	0.00290902	0.00231888	0.00710655	0.00584518	0.00372707	0.00324528	0.00518439
64 LODGING SERVICES	0.00017547	0.00017375	0.00020005	0.00033139	0.00035396	0.00031048	0.00127982	0.00047994
65 PERSONAL SERVCS	1.00600352	0.00586105	0.00689590	0.02456696	0.01321349	0.01069334	0.00656938	0.01697142
66 OTHER BUS. SERV.	0.00697984	1.00646150	0.00196564	0.00383254	0.00823709	0.00224626	0.00314477	0.00320333
67 REPAIR SERV.	0.03124308	0.00599017	1.00225484	0.00438559	0.00533533	0.00336934	0.01662607	0.00509311
68 MEDICAL SERV.	0.01013409	0.00990933	0.01161062	1.01745861	0.02022094	0.01802587	0.01106248	0.02865875
69 EDUCATION SERV.	0.00901746	0.00882676	0.01037278	0.01560805	1.01833383	0.01610329	0.00973805	0.02560756
70 BOOKKEEPING SERV	0.00203016	0.00234600	0.00110132	0.00343581	0.00210117	1.00160980	0.00944076	0.00252272
71 ALL OTHER SVCS.	0.02219293	0.02555153	0.02452027	0.06258984	0.04339310	0.03915147	1.12635728	0.05562705
72 HOUSEHOLDS	0.45892062	0.44897183	0.52804058	0.79314459	0.91789469	0.81971127	0.49531164	1.30379731
TOTAL	1.92950339	1.94744999	2.00487258	2.77131014	3.01083693	2.50143747	2.48199698	2.28462265

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