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An Input-output Model of the South Central Region of Texas

James R. Vinson
Hardin-Simmons University

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AN INPUT-OUTPUT MODEL OF THE SOUTH
CENTRAL REGION OF TEXAS

James R. Vinson

Hardin-Simmons University

Prepared for:

Department of Housing and Urban Development

March 1972

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DIVISION OF PLANNING COORDINATION

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GOVERNOR OF TEXAS

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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 impacts 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 South Central regional project was conducted at Hardin-Simmons University by members of the staff of the Bureau of Economic and Business Research. 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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CHAPTER 1

INTRODUCTION

National economic development, through the mass of its aggregate force, influences the directional economic growth trends of its regional components. However, each defined economic region has a somewhat unique combination of resources which contributes to its separate degree of growth and development. Thus, regional economies may vary significantly from national trends and, in doing so, experience isolated and individually unique problems.

It is a paradox that in the richest country in the world, even at prosperity peaks, there is everywhere deep concern about local economic situations. In the older sections of the United States one finds concern about outmigration of industries and depressed areas. In regions where agriculture is important, the tremendous structural changes that have been taking place, with the widespread decline of rural communities, provide cause for worry about the future. In some of the regions, as in the Far West and in the Southwest, concern about the future of major industries is interspersed with worries about the staggering problem of very rapid end-on-end urban growth.¹

Recognizing the reality, as well as the importance, of regional economic problems, the following study is intended as a contributory element for a more knowledgeable economic interpretation of South Central Texas. It presents the final results of the South Central Texas Region study segment of the Texas State Input-Output Project, and is the culmination of more than two and one-half years of field research and study. The study report is not addressed to a specifically defined economic

¹Harvey S. Perloff with Vera Dobbs, How a Region Grows: Area Development in the U. S. Economy, Supplementary Paper No. 17 (Committee for Economic Development: New York, N. Y., 1963), p. 11.

problem that may exist within the study area. Moreover, through the provision of a readily available tool of economic analysis, the results of this study are intended for a wide range of potential applications.

The Texas State Input-Output Project

The South Central Texas Region Input-Output Study is an integral part of the Texas State Input-Output Project. The Texas State Input-Output Project consists of a state-wide interindustry study and nine regional studies. Each regional project is an autonomous study. However, all regional projects were accomplished under coordinated and common research procedures as provided by the state-wide project director. The results of this study process are nine individual regional studies and a state-wide study which are compatible in procedures and presentation.

The nine regional study boundaries are shown in Figure 1 and the following are geographic descriptions of each region:

Region 1 - Upper Rio Grande

Region 2 - High Plains

Region 3 - Low Rolling Plains

Region 4 - North Central

Region 5 - Northeast

Region 6 - South Central²

Region 7 - Lower Rio Grande

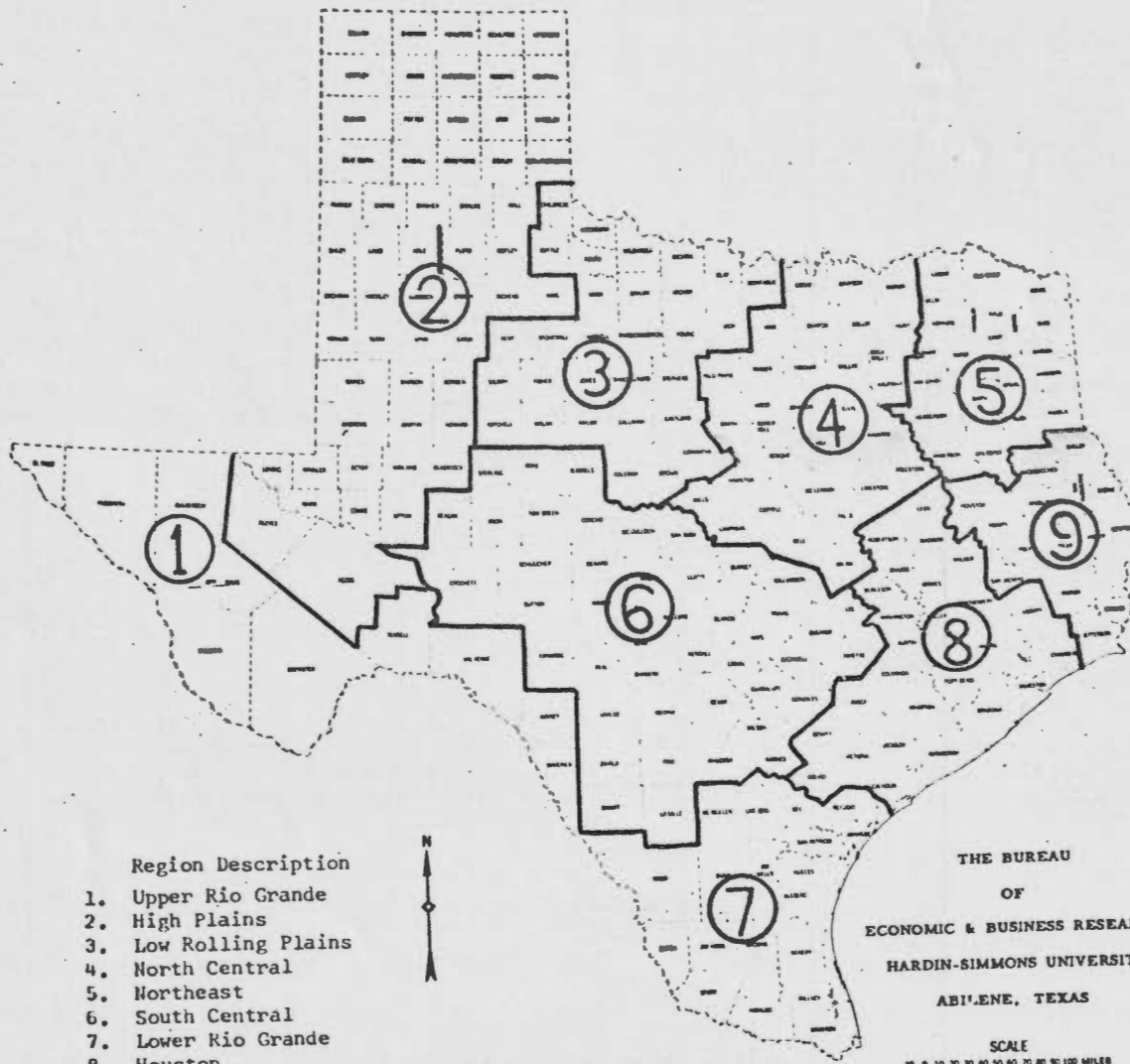
Region 8 - Houston - Galveston

Region 9 - Southeast

The composite of all regional input-output studies covers the entire

²Region VI study segment was under the direction of the Bureau of Business Research, University of Texas at Austin until the spring of 1970.

Figure 1
Texas Input-Output Regions



- Region Description
1. Upper Rio Grande
 2. High Plains
 3. Low Rolling Plains
 4. North Central
 5. Northeast
 6. South Central
 7. Lower Rio Grande
 8. Houston
 9. Southeast

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ABERNETHY, TEXAS

SCALE
0 10 20 30 40 50 60 70 80 90 100 MILES

state and respective regional boundaries do not overlap. The boundaries of the nine study regions also coincide closely with multiple "Texas Planning Regions"³ as determined by the Office of the Governor, State of Texas, in 1968. In this manner, the Texas Input-Output Study is capable of full state coverage and close coordination with overall state planning efforts.

South Central Texas Region Study Purposes

Within the stated objectives and the designed organization of the state-wide and regional system of analysis, specific objectives for the South Central Texas Region study include the following:

1. To provide a comprehensive and detailed economic analysis of the study area for the study period, 1967.
2. To provide an analytical tool to state, local, and regional governments and businessmen by which they may better achieve their common and separate objectives.

Systems of Regional Analysis

The concept of a regional economy is sometimes difficult to understand, because it consists of both a region and an economy. The region is usually geographically defined in such a manner as to coincide implicitly with singular or multiple political and/or legal organizational boundaries, i.e. states, counties, cities, etc. The regional grouping of such states, counties and cities is based upon a commonly shared set of criteria which unify the area and set it apart from its surrounding hinterland.

³Office of the Governor, Division of Planning Coordination, Planning Regions for the State of Texas (Office of the Governor: Austin, Texas, December 1968).

However, economic activity, i.e. the production and distribution of goods and services, is predominantly guided by a market exchange mechanism; and therefore, unless enforceably restricted, will not be exclusively limited by geographically defined boundaries. Thus, although identified by a defined geographic area, regional economic activity operates through both external trade relationships and internal relationships as well. For example, a manufacturing firm may import raw materials, utilize local power and labor resources to produce component parts, and ship (export) these component parts to another regional area for fabrication and market distribution. Finally, the finished goods may be imported for ultimate consumption by local households. In this manner, a regional economy is a separate entity; but, it is also intricately structured as an integrated part of the national economy.

The Input-Output Technique of Analysis

In order to cope with the complexities of regional economic activity, systems of regional economic analysis have been progressively implemented. Many of these systems of analyses have a rather recent origin; and their present-day uses and applications are almost totally dependent upon aggregate, i.e. national, economic concepts.

Input-output technique, the system of regional economic analysis used by this report, has been developed in approximately the same historical manner. As first used and developed by Wassily W. Leontief, the input-output technique was adapted to national economic analysis. However, due to its analytical structure, input-output was also well suited for regional applications. It was a well-defined system of data organization--a system which presented inter-industry transactions in a concise and uniform manner suitable for further analytical manipulation.

As a result, beginning in 1952,⁴ the input-output technique has been increasingly utilized as a tool of regional economic analysis.

Organization of Report

The remainder of this report is organized into four additional chapters. Chapter 2 will present an overview of the study region, including geographic setting, demographic characteristics and economic factors of income, employment, and earnings. Chapter 3 will discuss the methodology and procedures of analyses used in the preparation of this report. Chapter 4 will present the findings of the study as they relate to the total regional economy and the regional flow of goods and services. Chapter 5 discusses some of the many ways in which the results of this study may be used.

⁴Philip J. Bourque and Gerald Hausen, An Inventory of Regional Input-Output Studies in the United States (Graduate School of Business Administration, University of Washington: Seattle, Washington, 1967), p. 3.

CHAPTER 2
THE STUDY REGION

The Geographic Setting

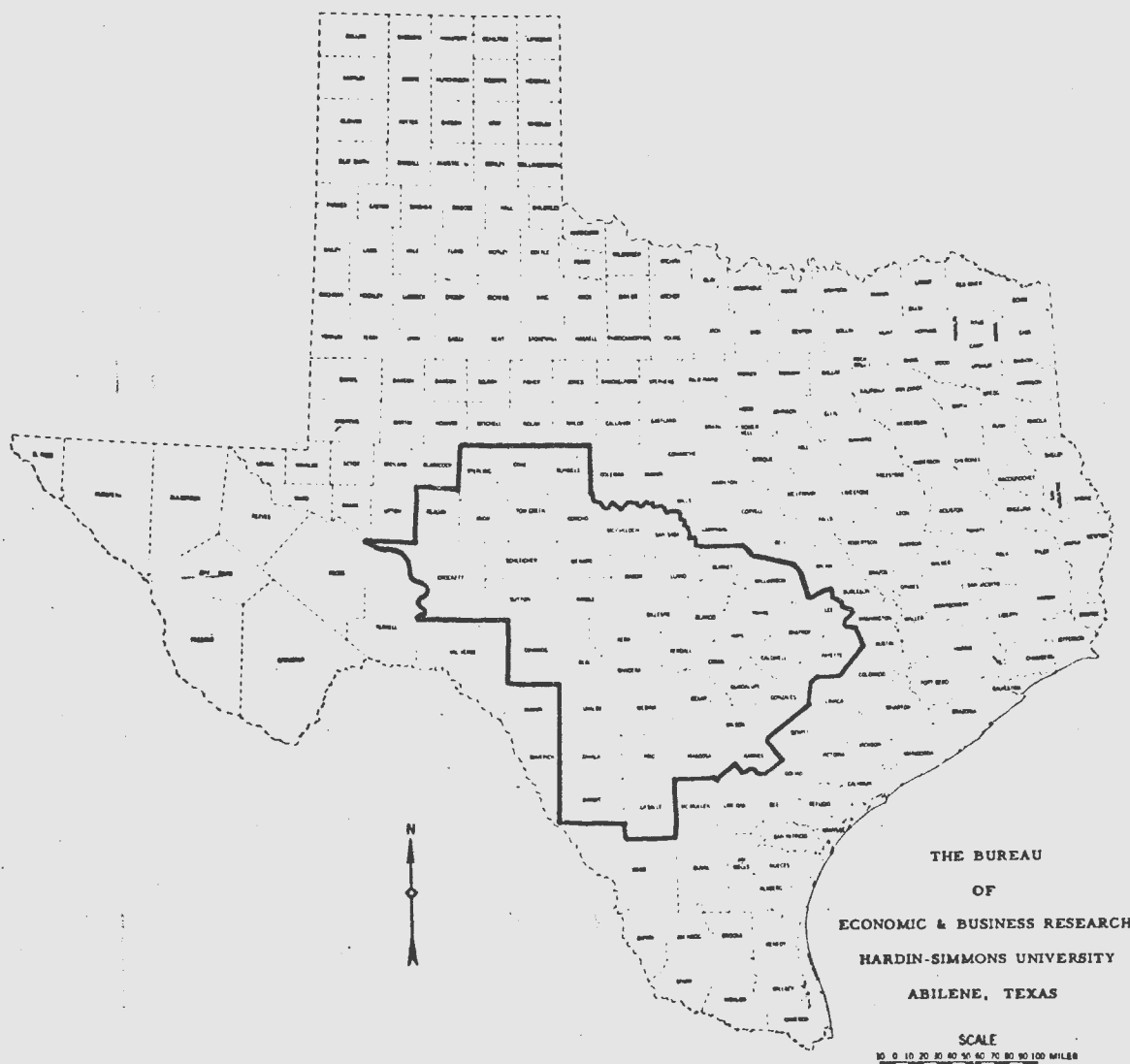
South Central Texas Region of the Texas State Input-Output Project consists of forty-four contiguous central-Texas counties. Figure 2 illustrates the county composite of the study area with respect to the remainder of the State of Texas. Regional boundaries extend from the northernmost counties of Sterling, Coke, and Runnels in west-central Texas to a southern limit of Dimmit and La Salle Counties along the Rio Grande Valley. Western border counties along the Pecos River are Reagan and Crockett; the eastern border includes Lee County and Fayette County along the lower Colorado River.

Land Area: Total land area in the South Central Texas Region amounts to 30,615,586 acres¹ and represents approximately 18.2 percent of the total land area (168,001,068 acres)² in the State of Texas. As shown by Table 1, much of the study region land area is devoted to agricultural use. Cropland accounts for 14.57 percent of the regional area and pasture and rangeland for 63.32 percent. Together, these two agricultural land-use categories account for 77.89 percent of the total regional land area. Inclusive of "Other" land-use category, 97.76 percent of the regional land area is used for non-urban purposes.

¹Table 1.

²Texas Soil and Water Conservation Needs Committee, Conservation Needs Inventory: Texas, 1970. [Total acreage excludes land area of large rivers and streams but includes federal land, urban-use land, and small water areas of two to forty acres.]

Figure 2
 South Central Texas Region
 Texas State Input-Output Project



Source: Herbert W. Grubb, "Introduction to the Texas Input-Output Project," presented at the Governor's Industrial Expansion Conference, Austin, Texas, May 7, 1969. [The South Central Texas Region was later revised to include Dimmit and La Salle Counties.]

Table 1. Land Area and Land Use, South Central Texas Region, 1967, Acres.^a

County	Total Land Area	Urban	Cropland	Pasture and Range	Other Land
Atascosa	771,712	20,184	217,379	526,458	7,691
Bandera	488,576	8,837	33,378	171,260	275,101
Bastrop	569,728	27,478	121,716	202,513	218,021
Bexar	795,820	155,134	210,104	142,532	288,050
Blanco	460,160	4,278	20,076	25,814	409,992
Burnet	637,120	16,254	48,598	362,495	209,773
Caldwell	343,160	9,025	115,820	141,063	82,252
Coke	582,912	6,152	56,496	517,595	2,669
Comal	362,880	27,169	30,595	49,883	255,233
Concho	642,560	8,074	156,513	448,723	29,250
Crockett	1,788,160	8,108	0	1,743,618	36,434
Dimmit	859,260	12,890	54,589	789,090	2,691
Edwards	1,328,576	7,526	6,092	1,255,733	59,225
Fayette	597,652	6,980	200,821	232,901	156,950
Frio	714,240	8,491	159,000	543,290	3,459
Gillespie	675,200	7,350	92,231	100,831	474,788
Gonzales	676,032	8,828	189,242	290,647	187,315
Guadalupe	457,024	19,303	204,847	133,834	99,040
Hays	428,800	11,585	64,679	53,375	299,161
Irion	686,720	5,772	5,081	674,270	1,589
Karnes	484,992	12,046	184,322	275,337	13,287
Kendall	428,800	5,821	48,892	84,649	289,438

^aTexas Soil and Water Conservation Needs Committee, Conservation Needs Inventory: Texas, 1970.

Table 1. (continued)

County	Total Land Area	Urban	Cropland	Pasture and Range	Other Land
Kerr	704,640	12,823	29,105	216,238	446,474
Kimble	815,360	8,200	22,808	513,906	270,446
La Salle	960,128	8,249	65,266	880,875	5,738
Lee	410,269	6,404	81,372	187,488	135,005
Llano	602,048	6,551	12,746	317,319	265,432
McCulloch	682,176	12,300	147,819	514,032	8,025
Mason	598,400	3,933	30,932	206,778	356,757
Medina	865,088	14,725	200,469	628,292	21,602
Menard	584,960	4,532	26,300	552,104	2,024
Reagan	724,736	12,300	21,093	686,333	5,010
Real	398,336	4,519	5,297	334,925	53,594
Runnels	677,376	14,300	344,036	293,898	25,142
San Saba	717,056	13,060	64,051	573,731	66,214
Schleicher	851,840	5,052	37,744	669,904	139,140
Sterling	584,960	4,933	7,286	567,342	5,399
Sutton	955,520	5,774	4,292	705,764	239,690
Tom Green	973,321	45,000	196,074	670,369	61,948
Travis	647,552	53,980	157,279	147,778	288,515
Uvalde	1,016,320	9,600	124,404	877,025	5,291
Williamson	720,640	22,643	373,591	158,940	165,466
Wilson	513,280	14,391	170,559	222,215	106,115
Zavala	826,496	6,315	118,492	693,183	8,506
TOTAL	30,615,586	686,869	4,461,416	19,384,359	6,082,942

Topography: Not only is the South Central Texas Region a vast land area, it also covers a varied geographic setting. The northern and western portions of the region are semi-arid with average annual rainfall ranging from less than 14 inches to less than 24 inches.³ Normal annual temperature ranges from 64 to 66 degrees.⁴ The land is broken hilly with sparse vegetation including cacti, mesquite, and cedar brush.

The southeastern portion of the study region contrasts markedly with the semi-arid northwestern portion. Here, normal rainfall ranges from 30 inches to in excess of 40 inches a year.⁵ Normal annual temperature is slightly higher than the northern portion at 72 degrees.⁶ The countryside is typically rolling river bottomland with dense vegetation and scattered, heavily wooded areas. Several major rivers criss-cross this southern part of the study area including The Colorado, The Guadalupe, The San Antonio, and The San Marcos.

Regional Population

South Central Texas Region contains 18.2 percent of the total land area of Texas; however, a much lower relative proportion of the Texas population resides in the same area. Table 2 shows the 1960 regional population as 1,394,991, or only 14.56 percent of the state population.

³Weather Bureau State Climatologist, Environmental Science Services Administration, "Climatology of Texas: Normal Annual Total Precipitation," October 1968, 577.21.1, Austin, Texas.

⁴_____, "Climatology of Texas: Normal Annual Temperature," October 1968, 524.32.1, Austin, Texas.

⁵"Climatology of Texas: Normal Annual Total Precipitation," loc. cit.

⁶"Climatology of Texas: Normal Annual Temperature," loc. cit.

This table also shows a declining relative proportion of Texas' population living in the study area. From 1960 to 1970, Texas population grew by 16.9 percent while the study region population grew by only 15.2 percent to a total of 1,606,965. Thus, the 1970 regional population represents only 14.35 percent of state population; and a straight line growth trend for the period 1960-1970 would place the regional-to-state percentage at 14.40 and an absolute value of approximately 1,543,372 for the study year, 1967.

Major Population Centers: There are three Standard Metropolitan Statistical Areas (SMSA) located within the study area:⁷

SMSA	Central City	County(ies)
(1.) San Antonio	San Antonio	Bexar Guadalupe
(2.) Austin	Austin	Travis
(3.) San Angelo	San Angelo	Tom Green

These SMSA's, as shown in Figure 3, are located in the north and south-east portions of the study region.

The SMSA's contain a very large proportion of the study region population. As listed in Table 3, SMSA's contained 71.17 percent of the regional population in 1960 and had increased to 76.57 percent by 1970. The SMSA central cities contained 59.71 percent and 60.35 percent in 1960 and 1970 respectively. One city alone, San Antonio, accounted for 53.76 percent of regional population in 1970.

⁷Executive Office of the President, Bureau of the Budget, Office of Statistical Standards, Standard Metropolitan Statistical Areas: 1967, pp. 6 and 35.

Table 2. South Central Texas Region Population by County: 1960 and 1970, and Percentage Change 1960 to 1970.^a

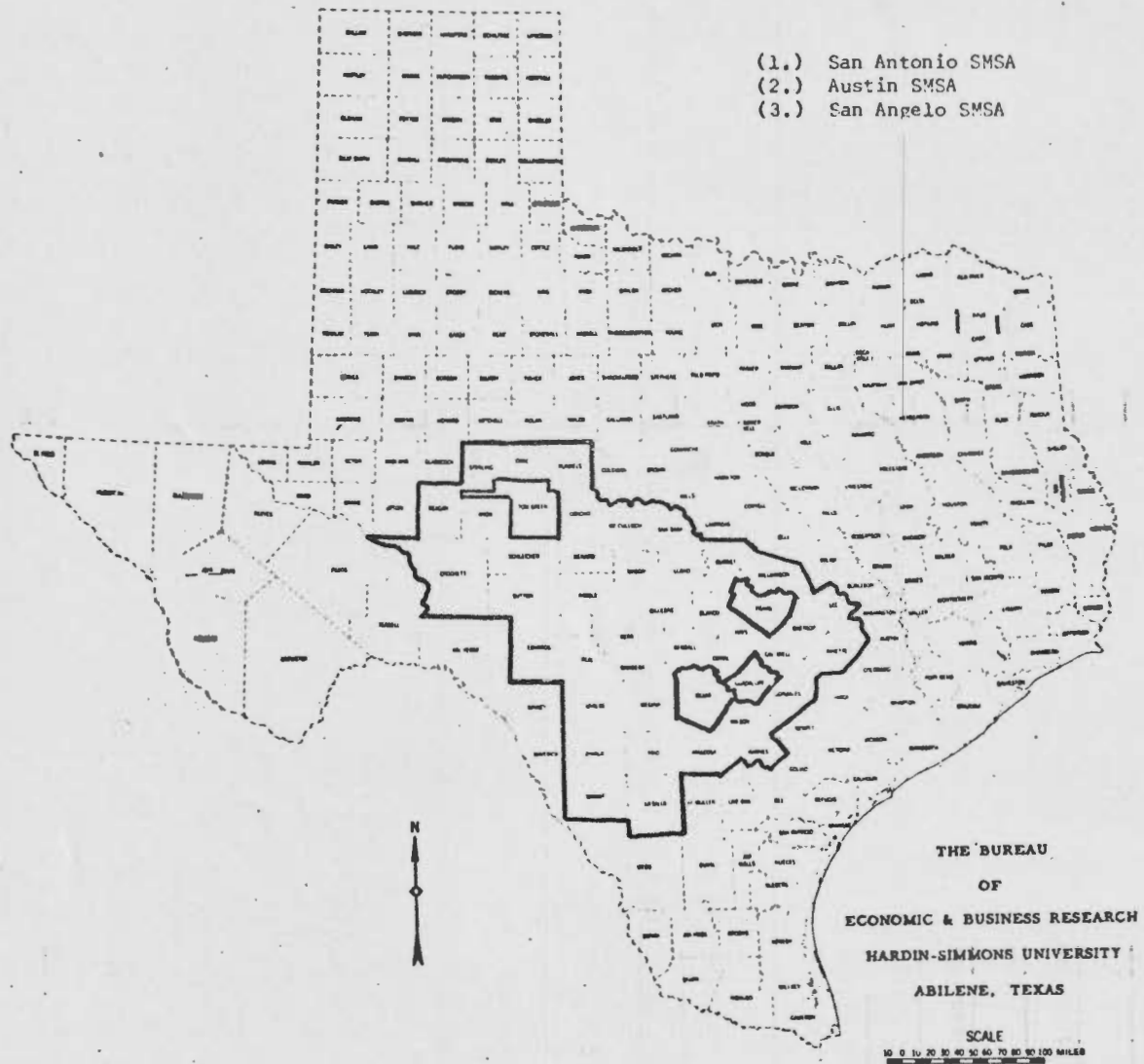
County	1970	1960	Percentage Change
Atascosa	18,696	18,828	-0.7
Bandera	4,747	3,892	22.0
Bastrop	17,297	16,925	2.2
Bexar	830,460	687,151	20.9
Blanco	3,567	3,657	-2.5
Burnet	11,420	9,265	23.3
Caldwell	21,178	17,222	23.0
Coke	3,087	3,589	-14.0
Comal	24,165	19,844	21.8
Concho	2,937	3,672	-20.0
Crockett	3,885	4,209	-7.7
Dimmit	9,039	10,095	-10.5
Edwards	2,107	2,317	-9.1
Fayette	17,650	20,384	-13.4
Frio	11,159	10,112	10.4
Gillespie	10,553	10,048	5.0
Gonzales	16,375	17,845	-8.2
Guadalupe	33,554	29,017	15.6
Hays	27,642	19,934	38.7
Irion	1,070	1,183	-9.6
Karnes	13,462	14,995	-10.2
Kendall	6,964	5,889	18.3

^aBureau of the Census, U. S. Department of Commerce, 1970 Census of Population: (Advance Report) Texas, PC(V1)-45, "Final Population Counts," Washington, D.C., January 1971.

Table 2. (continued)

County	1970	1960	Percentage Change
Kerr	19,454	16,800	15.8
Kimble	3,904	3,943	-1.0
La Salle	5,014	5,972	-16.0
Lee	8,048	8,949	-10.1
Llano	6,979	5,240	33.2
McCulloch	8,571	8,815	-2.8
Mason	3,356	3,780	-11.2
Medina	20,249	18,904	7.1
Menard	2,646	2,964	-10.7
Reagan	3,239	3,782	-14.4
Real	2,013	2,079	-3.2
Runnels	12,108	15,016	-19.4
San Saba	5,540	6,381	-13.2
Schleicher	2,277	2,791	-18.4
Sterling	1,056	1,177	-10.3
Sutton	3,175	3,738	-15.1
Tom Green	71,047	64,630	9.9
Travis	295,516	212,136	39.3
Uvalde	17,348	16,814	3.2
Williamson	37,305	35,044	6.5
Wilson	13,041	13,267	-1.7
Zavala	11,370	12,696	-10.4
TOTAL	1,606,965	1,394,991	15.2

Figure 3
Standard Metropolitan Statistical Areas: 1967
South Central Texas Region



Source: Executive Office of the President, Bureau of the Budget,
Office of Statistical Standards, Standard Metropolitan Statistical Areas:
1967, pp. 6 and 35.

Table 3. South Central Texas Region, Indigenous SMSA, and Major City Populations, 1960 and 1970.

Area	1960 Population ^a	1970 Population ^{ab}	Percent of Regional Population: 1960	Percent of Regional Population: 1970
San Antonio SMSA ^c	716,168	864,014	51.33	52.76
San Antonio (City)	587,718	654,153	42.13	40.70
Austin SMSA	212,136	295,516	15.20	19.38
Austin (City)	186,545	251,808	13.37	15.66
San Angelo SMSA	64,630	71,047	4.63	4.42
San Angelo (City)	58,815	63,884	4.21	3.97
Total: SMSA's	992,934	1,230,577	71.17	76.57
Total: SMSA Central Cities	833,078	969,845	59.71	60.35
Total: Study Region	1,394,991	1,606,965	100.00	100.00

^aBureau of the Census, U. S. Department of Commerce, 1970 Census of Population: (Advance Report) Texas, PC(V1)-45, "Final Population Counts," Washington, D.C., January 1971.

^b_____, 1970 Census of Population: (Advance Report) Texas, PC(V2)-45, "General Population Characteristics," Washington, D.C., January 1971.

^cSan Antonio SMSA includes Bexar and Guadalupe Counties.

Population Trends: General population trends, as well as large concentration of people in SMSA counties, emphasize several conclusions concerning population in the study area:

1. During the period 1960 to 1970, population in the SMSA's grew at a more rapid rate (23.93 percent) than did the total regional population (15.2 percent). Excluding SMSA population growth, the regional residual population declined by almost 10 percent during the same period (1960-1970).
2. The non-urban population is scattered sparsely throughout the remaining and vast land area of the region. For example, SMSA population concentration is as high as 666.0 persons per square mile in Bexar County--and as low as .99 persons per square mile in non-SMSA Irion County. In fact, more than 75 percent of the regional population is concentrated on less than 10 percent of the regional land area.
3. Regional population data indicate that 82.6 percent of the people lived in urban places⁸ in 1970--or more than the state urban level at 79.7 percent. However, excluding SMSA's only 34.63 percent of the remaining regional population lives in urban places.

Regional Employment, Income and Earnings

Regional Employment: Total non-agricultural covered employment⁹

⁸Urban population refers to persons living in urbanized area as defined by the Bureau of Census and communities of 2,500 or more.

⁹"Covered" employment refers to workers of employers subject to the Texas Unemployment Compensation Act and the Federal Unemployment Compensation Act (Table 6).

in South Central Texas Region was 237,258 for the first quarter, 1967. This level of employment was approximately 12.4 percent of non-agricultural covered employment in the State of Texas. And similar to population trends, most (81.91 percent) of regional covered employment was concentrated in SMSA counties. The most populated county, Bexar, accounts for 56.59 percent of the regional employment (Table 4). This table dramatically illustrates the concentration of employment in SMSA counties on one hand, and on the other, the sparseness of employment in such counties as Real and Irion.

Regional Employment Distribution: Employment data¹⁰ indicate that relative to the State of Texas, a larger distribution of government employment exists in the South Central Texas Region. Comparative data further indicate approximately three times as much relative distribution to government employment in the study area than for the state of Texas as a whole.

Excluding Agriculture and Government categories, Retail and Wholesale Trades constitute the largest single industry employer in the South Central Texas Region--almost seven percent more than the same relative distribution for the state. As shown in Table 5, Manufacturing is the second largest regional employer, but, as shown by Table 6, almost 10 percent less than the relative distribution of manufacturing employment for the State of Texas. In other industry categories, the study region has less relative employment in Mining and Transportation-Communications-Public Utilities than the state but a greater relative employment in Finance-Insurance-Real Estate, Construction, and Services.

¹⁰Source Documentation, Table 6.

Table 4. South Central Texas Region Covered Employment by County, First-Fourth Quarter, 1967.^a

County	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Atascosa	1,363	1,388	1,224	1,280
Bandera	417	509	552	458
Bastrop	1,548	1,569	1,560	1,637
Bexar	*	134,281	137,145	138,244
Blanco	348	348	471	414
Burnet	939	1,139	1,044	936
Caldwell	1,925	1,940	1,900	1,806
Coke	434	475	518	413
Comal	3,964	4,280	4,613	4,519
Concho	149	140	322	150
Crockett	482	501	541	580
Dimmit	286	280	287	316
Edwards	137	140	148	134
Fayette	1,961	1,984	1,960	2,099
Frio	973	1,076	1,004	954
Gillespie	1,668	1,641	1,701	1,904
Gonzales	1,966	1,836	2,209	2,180
Guadalupe	3,763	3,702	3,774	3,846
Hays	2,963	2,946	2,722	2,725
Irion	30	58	210	98
Karnes	1,531	1,547	1,518	1,501
Kendall	534	534	472	409

^aTexas Employment Commission, "A Report of Employment and Total Wages Paid by Employers Subject to the Texas Unemployment Commission Act...", First Quarter, Second Quarter, Third Quarter, and Fourth Quarter, 1967, Austin, Texas.

Table 4. (continued)

County	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Kerr	2,838	2,942	3,103	2,798
Kimble	392	390	493	491
La Salle	261	265	256	495
Lee	739	753	1,037	763
Llano	414	445	496	436
McCulloch	1,268	1,297	1,277	1,281
Mason	250	289	277	265
Medina	1,704	1,731	1,904	1,949
Menard	167	173	153	157
Reagan	876	767	720	628
Real	21	24	29	26
Runnels	1,279	1,398	1,265	1,408
San Saba	333	340	348	335
Schleicher	367	331	283	330
Sterling	111	120	46	52
Sutton	498	544	432	470
Tom Green	12,084	12,429	12,491	12,347
Travis	44,225	45,213	47,239	48,626
Uvalde	2,457	2,595	2,562	2,562
Williamson	3,676	3,794	3,864	3,821
Wilson	454	486	530	506
Zavala	1,182	1,069	801	918
TOTAL	237,258 ^b	239,709	246,965	247,267

^bFirst Quarter 1967 data for Bexar County were not reported.

Table 5. Covered Employment for Texas and by Study Region County, First Quarter, 1967.^a

County	Total Employment ^b	Mining	Construction	Mfg.	Transp. Comm. & Pub.Util.	Trade	Finance Ins. & Real Est.	Service	Other
Atascosa	1,363	489	132	25	50	483	59	119	4
Bandera	417	--	85	--	50	96	--	63	122
Bastrop	1,548	0	140	774	28	372	42	188	3
Bexar ^c	134,281	1,132	13,624	26,016	8,576	51,947	12,414	20,358	213
Blanco	348	--	68	28	25	135	--	35	55
Burnet	939	146	148	200	49	223	48	122	0
Caldwell	1,925	450	71	439	75	646	67	149	25
Coke	434	164	115	--	35	49	22	--	48
Comal	3,964	--	258	1,968	280	1,003	75	215	163
Concho	149	0	--	--	--	79	19	--	49
Crockett	482	195	18	--	46	153	--	54	15
Dimmit	286	13	--	--	28	127	25	10	81
Edwards	137	--	--	--	37	48	--	0	51
Fayette	1,961	70	267	215	180	923	73	207	23
Frio	973	35	213	21	120	409	--	122	51
Gillespie	1,668	112	99	217	153	726	62	298	0
Gonzales	1,966	0	99	580	137	743	89	257	59
Guadalupe	3,763	105	195	1,293	250	1,359	144	362	53
Hays	2,963	--	290	751	96	1,122	135	483	85
Irion	30	--	0	0	0	12	--	--	17
Karnes	1,531	179	100	97	233	707	45	156	10
Kendall	534	0	151	--	--	199	24	134	25
Kerr	2,838	0	234	1,178	186	788	93	358	0
Kimble	392	0	--	53	35	164	--	36	123
La Salle	261	--	--	0	--	182	--	41	37
Lee	739	0	265	35	--	322	28	58	28
Llano	414	76	15	11	--	236	--	57	17
McCulloch	1,268	--	161	366	74	405	37	193	30
Mason	250	0	--	17	22	168	--	--	43
Medina	1,704	55	118	232	417	595	66	194	24
Menard	167	--	0	0	--	124	--	8	34
Reagan	876	464	--	--	144	129	43	25	69

Table 5. (continued)

County	Total Employment ^b	Mining	Construction	Mfg.	Transp. Comm. & Pub.Util.	Trade	Finance Ins. & Real Est.	Service	Other
Real	21	0	0	0	--	7	0	12	1
Runnels	1,279	194	4	170	200	564	62	81	3
San Saba	333	0	22	31	19	180	39	39	0
Schleicher	367	136	43	--	88	53	--	0	46
Sterling	111	70	--	0	--	--	--	--	41
Sutton	498	--	185	--	32	166	--	44	70
Tom Green	12,084	259	810	2,577	1,823	4,144	641	1,796	31
Travis	44,225	141	4,623	6,840	2,827	16,127	4,068	9,556	41
Uvalde	2,457	185	148	367	222	1,110	127	274	22
Williamson	3,676	113	109	1,215	266	1,234	154	582	1
Wilson	454	--	--	34	45	295	33	34	13
Zavala	1,182	--	154	600	14	285	22	71	34
Region	237,258	4,783	22,964	46,330	16,862	88,829	18,756	36,791	1,860
Texas ^e	2,231,229	102,088	188,924	643,756	201,462	683,334	137,510	268,431	--

^aTexas Employment Commission, "A Report of Employment and Total Wages Paid by Employers subject to the Texas Unemployment Compensation Act, and by the Federal Government under the Federal Unemployment Compensation Act, First Quarter 1967," Austin, Texas.

^b"Total Employment" may not equal the sum of industry employment due to the exclusion of covered agricultural employment.

^cData for Bexar County are second quarter 1967 since first quarter data was not available. See T.E.C., op. cit., Second Quarter 1967.

^dWhen there was no employment reported in county in one of the industry groups a "0" is shown. If there was employment in a group but there were fewer than 3 employers, the employment was not shown under that category so as not to reveal information concerning individual establishments. In those cases, the employment was included in the "Other" industry group and a dashes (--) indicates where that situation occurs.

^eTexas State data are for March 1967, T.E.C., op. cit., First Quarter 1967.

Table 6. Employment Distribution for Texas, South Central Texas Region, and Major Regional Counties, First Quarter 1967.

Industry Category	Employment Distribution by Area (Percent) ^a				
	Texas	Region	Bexar County	Travis County	Tom Green County
Mining	4.57	2.01	.84	.31	2.14
Construction	8.46	9.67	10.14	10.45	6.70
Manufacturing	28.85	19.52	19.37	15.46	21.32
Transportation, Communications, and Public Utilities	9.02	7.10	6.38	6.39	15.08
Trades	30.62	37.44	38.68	38.46	34.29
Finance, Insurance, and Real Estate	6.16	7.90	9.24	9.19	5.30
Services	12.03	15.50	15.16	21.60	14.86

^aComputed from data in Table 5.

Thus, the largest industry employers in South Central Texas Region are Government, Trades, Manufacturing, and Services. With respect to the State of Texas, Government, Trades, and Services are relatively more important in the study region and Manufacturing is much less important.

Regional Income: For the study year, 1967, the study area accounted for 12.6 percent of total state personal income.¹¹ The study area also had a lower personal per capita income than that for the State of Texas.

Table 7. Per Capita Personal Income for Texas and Regional SMSA's 1967.

Area	Per Capita Income (Dollars)		
	1965	1966	1967
Texas ^a	2,358	2,580	2,762
San Antonio SMSA ^b	2,098	2,357	2,500
Austin SMSA ^b	2,212	2,320	2,682
San Angelo SMSA ^b	2,358	2,534	2,715

^aU. S. Department of Commerce, Office of Business Economics, Survey of Current Business, "State and Regional Personal Income in 1969," Vol. 50, No. 8, August 1970, p. 35.

^b_____, "Metropolitan Area Personal Income," Vol. 51, No. 5, May 1971, p. 30.

¹¹U. S. Department of Commerce, Office of Business Economic, "Detailed Data on Personal Income and Earnings by County," unpublished data.

Table 7 lists the personal per capita income data for Texas and study region SMSA's and shows that even the SMSA personal per capita income is lagging behind that of the state as a whole. Table 8, shows per capita income estimates for all non-SMSA regional county seats, as well as estimates for Texas and the United States, 1966;¹² and these data reflect per capita income in all but one of study region county seats to be below that of Texas and the United States.

Regional Earnings and Earnings Distribution: Total regional earnings amounted to \$2,930,303,000 in 1967, or 12.92 percent of total state earnings. As shown by Table 9, \$2,358,000,000 or more than 80 percent of total regional earnings occurred in the three SMSA's (Table 9). The forty residual counties accounted for only \$572,303,000 or 19.54 percent of total regional earnings.

Relative distribution of earnings by industry category further illustrates the findings based on employment data. "Government," the leading earnings sector for the study region as a whole, produces 37.98 percent of total earnings (Table 10). Government earnings are even more pronounced in the Austin and San Antonio SMSA's, where relative distribution of earnings is approximately three times the state level.

"Trades" is the second most important earnings sector in the study region with 17.25 percent of total earnings; and "Services" is third with 13.69 percent. Regional earnings are extremely low in

¹²Per capita income estimates in Table 8 differ from those in Table 7, due to source differences. Per capita income estimates in Table 8, are based on income tax returns rather than total earnings as in Table 7.

Table 8. South Central Texas Region, Non-SMSA Representative Per Capita Personal Income by County Seat, State of Texas, and the United States, 1966.^a

County	County Seat	Per Capita Income
Atascosa	Jourdanton	\$1,600
Bandera	Bandera	1,578
Bastrop	Bastrop	1,541
Blanco	Johnson City	1,981
Burnet	Burnet	1,702
Caldwell	Lockhart	1,613
Coke	Robert Lee	1,649
Comal	New Braunfels	1,826
Concho	Paint Rock	1,326
Crockett	Ozona	2,081
Dimmit	Carrizo Springs	1,367
Edwards	Rocksprings	1,663
Fayette	La Grange	1,554
Frio	Pearsall	1,641
Gillespie	Fredericksburg	1,600
Gonzales	Gonzales	1,682
Hays	San Marcus	1,734
Irion	Mertzon	2,117
Karnes	Karnes City	1,476
Kindall	Boerne	1,775
Kerr	Kerrville	1,933
Kimble	Junction	1,441
La Salle	Cotulla	1,399
Lee	Giddings	1,517
Llano	Llano	1,755
McCulloch	Brady	1,666
Mason	Mason	1,551
Medina	Hondo	1,449
Menard	Menard	1,624
Reagan	Big Lake	2,051
Real	Leakey	1,295
Runnels	Ballinger	1,612
San Saba	San Saba	1,536
Schleicher	Eldorado	1,971
Sterling	Sterling	2,569
Sutton	Sonora	1,729
Uvalde	Uvalde	1,685
Williamson	Georgetown	1,630
Wilson	Floresville	1,370
Zavala	Crystal City	1,102
Texas		2,112
United States		2,405

^aComputer Systems Division, Larry Smith and Company, Inc.,
5-Digit Zip Code Area Data: 1966, San Francisco, California.

"Mining" and "Manufacturing" sectors. Relatively, "Mining" in the study region has three and one-half times lesser, earnings than Mining does relatively for Texas as a whole; and "Manufacturing" two and one-half times less relative earnings.

Summary

The regional study area constitutes a large and geographically varied land mass. Much of the land area is sparsely populated with most regional population concentrated in urban areas--especially the region's three SMSA's. Recent trends indicate a continued growth in urban populations and a marked decline in rural population.

Employment, along with population, is concentrated in urban areas within the region. Employment distribution data show regional economic specialization with a large percentage of employees in Government, Trades, and Services industry categories.

Total personal income for the study region is relatively low with respect to population distribution and personal income for the state as a whole, Per Capita income in the South Central Texas Region is also below the state level. This is true for urban as well as rural areas of the region, although per capita income in the SMSA's is generally higher than that in rural areas.

Earnings data, like employment data, show Government to be the major regional economic activity. The study region is also strongly concentrated in Trades and Services activities with Manufacturing and Mining contributing a markedly lesser amount to the regional economy.

Table 9. Personal Income and Earnings for Texas, Austin SMSA, San Angelo SMSA, and San Antonio SMSA, 1967.

Income and Earnings Categories	Income-Earnings by Area (Millions \$)			
	Texas ^b	Austin SMSA ^a	San Angelo SMSA ^a	San Antonio SMSA ^a
Total Personal Income	29,952	706	194	2,091
Total Wage and Salary Disbursements	19,606	470	116	1,477
Other Labor Income	943	15	5	50
Proprietors Income	3,443	53	22	149
Property Income	4,668	133	39	308
Transfer Payments	2,226	53	16	166
Less @ Personal Contrib. for Social Insurance	935	19	5	58
Total Earnings	22,669	539.0	143.1	1,675.9
Farm Earnings	1,133	3.7	5.1	10.7
Govt. Earnings	3,238	216.3	43.2	708.0
Private Nonfarm Earnings				
Manufacturing	4,827	45.8	16.3	159.3
Mining	1,063	1.3	2.3	12.2
Contract Construction	1,595	36.3	6.3	95.9
Trans., Communication, and Public Utilities	1,767	20.7	12.7	72.3
Wholesale and Retail Trade	4,392	89.4	27.2	293.7
Finance, Insurance and Real Estate	1,257	33.8	6.4	101.2
Services	3,326	91.1	23.0	220.8
Other	70	.6	.6	1.8

^aU. S. Department of Commerce, Office of Business Economics, Survey of Current Business, "Metropolitan Income in 1967," Vol. 49, No. 5, Part 1 (Washington, D.C.: U. S. Government Printing Office, May 1969).

^b_____, "State and Regional Personal Income in 1969," Vol. 50, No. 8, August 1970.

Table 10. Earnings by Industry Category for Texas, South Central Texas Region, and Regional SMSA's, 1967 (Percent).

Earnings Categories	Earnings by Industry Category (Percent)				
	Texas ^a	Study Region ^b	Austin SMSA ^a	San Antonio SMSA ^a	San Angelo SMSA ^a
Total Earnings ^c	100.00	100.00	100.00	100.00	100.00
Farm Earnings	4.99	4.47	.68	.63	3.56
Govt. Earnings	14.28	37.98	40.12	42.24	30.18
Private Nonfarm Earnings					
Manufacturing	21.29	8.80	8.49	9.50	11.39
Mining	4.68	1.33	.24	.72	1.60
Contract Construction	7.03	5.90	6.73	5.72	4.40
Trans., Communication, and Public Utilities	7.79	4.53	3.84	4.31	8.87
Wholesale and Retail Trade	19.37	17.25	16.58	17.52	19.00
Finance, Insurance and Real Estate	5.54	5.33	6.27	6.03	4.47
Services	14.67	13.69	16.90	13.17	16.07
Other					

^aComputed from data in Table 9.

^bComputed from U. S. Department of Commerce, Office of Business Economics, "Detailed Data on Personal Income and Earnings by County," unpublished data.

^cMay not add to 100.0 due to rounding.

CHAPTER 3

STUDY PROCEDURES AND METHODOLOGY

The time period covered by the South Central Texas Region report is the calendar year 1967.¹ The study year of 1967 allowed the collection of economic data covering a very recent time period (the regional study began in early 1969). It also permitted the study to be concurrent with available 1967 census data.²

The system of economic analysis used by this report is the open, regional input-output model.³ It is a highly efficient system of data organization which simultaneously records the individual transactions of each participating segment of the economic system. Regional industrial operations are presented in their total relationship to individuals (Households)--both as consumers and as suppliers of productive resources. The regional input-output technique also illustrates the study region's trade position with other regional areas as its economic segments import and export goods and services.

The Input-Output Technique

The input-output technique of economic analysis utilizes a

¹Basic time period is the calendar year 1967. However, in cases where fiscal accounting year for sample firms varied from the calendar year, data were collected for that fiscal year period nearest the base study year.

²The South Central Texas Region study began in early 1969. Thus, survey data were only one year old at that time. The 1967 industry census data were not yet available in 1969, but they were anticipated to be available prior to the completion of the study.

³For further reference see William H. iernyk, The Elements of Input-Output Analysis (Random House: New York, 1967), or Chiou-Shuang Yan, Introduction to Input-Output Economics (Holt, Rinehart and Winston: New York, 1969).

matrix or tabular presentation in which the economy of the study area is presented in equilibrium for the study period. Although there are many types, the results of the present study are organized and presented in three⁴ standard input-output tables:

1. The dollar transactions table
2. The direct requirements table
3. The direct and indirect requirements table

Dollar Transactions Table: The basic input-output table is the dollar transactions table. This table is organized in such a way as to illustrate all regional purchases and sales transactions in dollar amounts.

Beginning with individual establishments, regional business firms are classified by common products produced and grouped as industries (also called sectors). These industries, or sectors, are referred to by a name and a number. For example, the grouping of business firms that manufacture products of wood are referred to as "Sector 15," or "Wood Products." Non-industrial economic segments are also referred to as sectors, such as "Households" and "Governments."

All segments of the economy are represented by sector identification numbers and names⁵ which appear as row and column headings to the transactions table. Each row records the sector's sales and

⁴A fourth table, "Direct, Indirect and Induced Requirements," is included in this report as a convenience to the reader. However, this table is not a part of the formal project presentation.

⁵See Chapter 3 below for sector, i.e. model definitions.

and each column records the sector's purchases. In this manner, the purchases of one economic segment are simultaneously shown as the sales of another.

Figure 2 is an organizational diagram illustrating the typical layout of a dollar transactions input-output table and the following characteristics are descriptive of that organization:

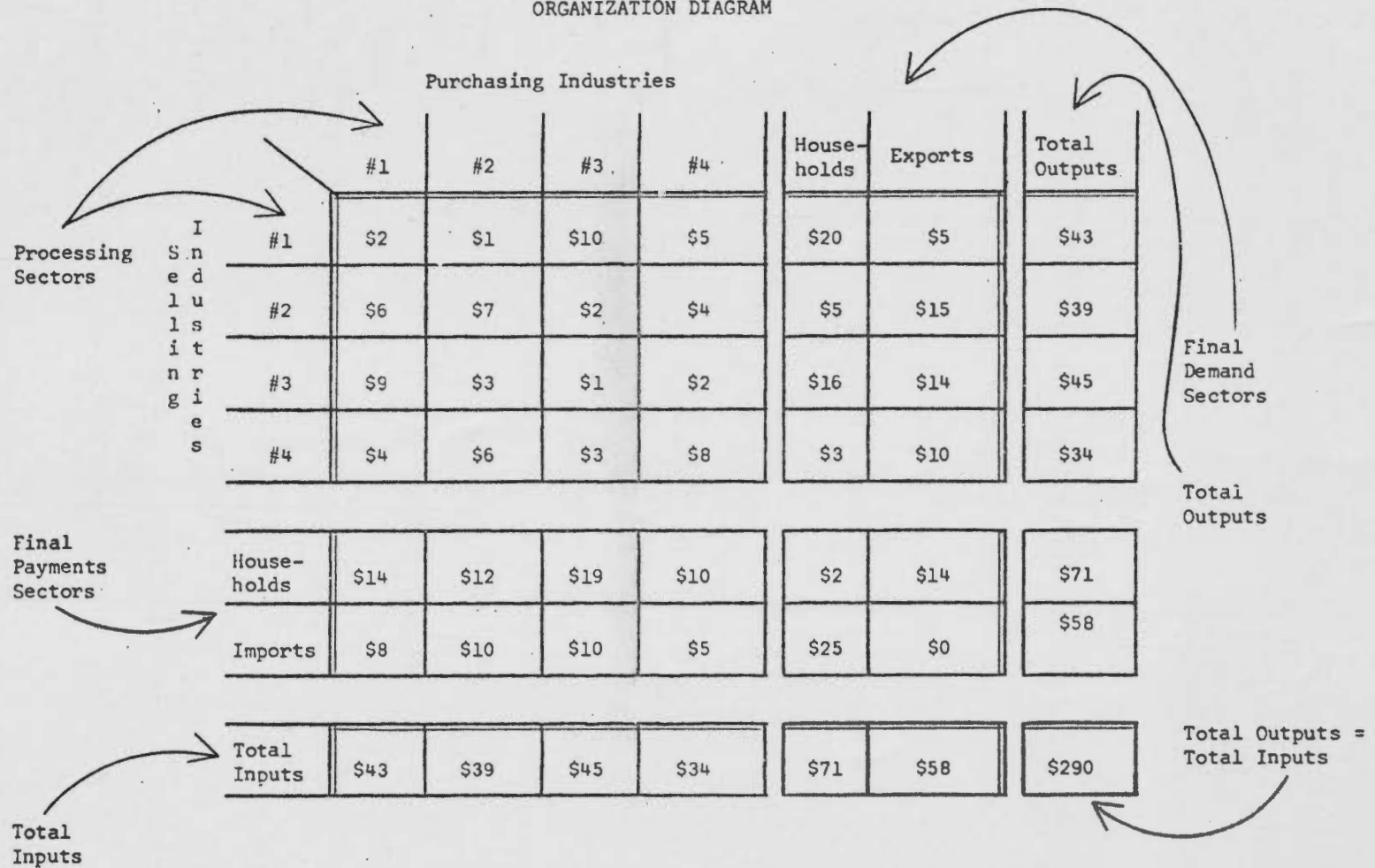
a. The processing, or producing, sectors are represented by a "square" portion of the transactions table as illustrated in the upper left hand corner of Figure 4. Sectors 1, 2, 3, and 4 represent defined economic industries, e.g. "Food Processing," "Cement Production," "Banking," etc. Since each row represents sales and each column represents purchases by the designated industry sector, this portion of the transactions table has an equal number of rows and columns. For example, Industry Three (reading down the column) buys \$10.00 worth of goods and services from Industry One, \$2.00 from Industry Two, \$1.00 from its own industry, and \$3.00 from Industry Four. Simultaneously, (reading across the rows) the table shows that Industry One sells \$10.00 worth of goods and services to Industry Three, Industry Two sells \$2.00 to Industry Three, Three sells \$1.00, and Industry Four sells \$3.00 worth to Industry Three.

b. Final payments sectors are located in the lower left-hand corner of Figure 4, and represent production costs outside those payments made to other local industry sectors. These payments include such categories as wages and salaries, business profits, taxes and other government payments--as well as imports of goods and services from outside the study region.

c. The sum of the inputs of goods and services from the

FIGURE 4
TRANSACTIONS DOLLAR TABLE
ORGANIZATION DIAGRAM

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processing sectors plus final payments sectors equals the total, that is, gross inputs for each economic sector. As shown in Figure 4, Industry Three expended \$45.00 total production costs, including profits or losses.

d. As shown in point (a.) above, row entries represent sales by each economic sector. Thus, final demand sectors, located in the upper right-hand corner of Figure 4, represent sales designations-- again, outside the processing sectors. These sectors may include governments, households, and exports outside the region of study. In Figure 4, for example, it is shown that Industry Three sells \$9.00 worth of goods and services to Industry One, \$3.00 to Two, \$1.00 to Three, and \$2.00 to Industry Four. Industry Three also sells \$16.00 worth of goods and services to local households and exports \$14.00 worth.

e. The sum of all sales by an industry sector to other industry processing sectors plus sales to final demand equals total outputs.

The above illustrations of a hypothetical dollar transactions input-output table show that total inputs (plus profits or less losses) equal total outputs; and, that the table represents a detailed record of the sales and purchases of regional economic sectors.

Direct Requirements Table: The direct requirements table expresses the relative amount of inputs, by industry sector, needed for delivery of one dollar's worth of goods and services to final demand. Therefore, the direct requirements table is concerned with the column table values inclusive of processing sectors and final payments sectors only.

FIGURE 5
DIRECT REQUIREMENTS TABLE
ORGANIZATION DIAGRAM

		Purchasing Industries					
		#1	#2	#3	#4		
Processing Sectors	Industrial Supplies	#1	.047	.026	.222	.147	Requirements Per Dollar Output
		#2	.140	.179	.044	.118	
		#3	.209	.077	.022	.059	
		#4	.093	.154	.067	.235	
	Households		.325	.307	.422	.294	
	Imports		.186	.257	.223	.147	
Final Payments Sectors	Total Inputs		1.000	1.000	1.000	1.000	

As shown in Figure 5, each industry's inputs have been converted from absolute dollar values to relative or coefficient values. For example, Industry Three buys 22.2% of its input requirements from Industry One, 6.7% from Industry Four, pays households 42.2% and imports 22.3%. In other words, for every \$1.00 worth of goods and services sold to final demand, Industry Three buys 22.2¢ worth of goods and services from Industry One, 4.4¢ from Two, 2.2¢ from Three, and 6.7¢ worth from Industry Four. Industry Three also pays households 42.2¢ and imports 22.3¢ worth of goods and services from outside the study area.

Direct and Indirect Requirements Table: As shown by the direct requirements table, the output of one industry is directly related to the inputs necessary for production. However, within the processing sectors, the inputs of one industry are also the outputs of another. Therefore, one industry has indirect relationships with almost all other industries of the economic system. The direct and indirect requirements table expresses the relative, inter-related inputs of one industry needed from other processing industries--both directly and indirectly--to deliver one dollar's worth of goods and services to final demand.

As shown in Figure 5, Industry Three must increase its purchases from all other processing sectors in order to increase its sales to final demand. For example, Industry Three must spend an additional 22.2¢ with Industry One for each new dollar's worth of sales to final demand. Therefore, Industry One must also increase its output by an initial amount of 22.2¢. In order for Industry One to increase its output, it must also increase its purchases from all other processing sectors. For example, for an increased output of 22.2¢, Industry One

would have to increase its purchases from Industry Two by 3.1¢--and by 4.6¢ from Industry Three--and so on throughout all the multiple transactions among the processing sectors. Thus, increased output of one producing sector increases the total level of input requirements a multiple of the original increase. This "multiplied" input increase is due to the intricate interrelationships that exist between the purchases and sales among the processing sectors of the economy.⁶ Under existing input-output methodology, these multiple sales and purchases interrelationships are summarized and presented in the direct and indirect requirements table.

The South Central Texas Region Model

As explained earlier, input-output organizes the economy into separate industries or sectors. The particular grouping of firms into sectors, as well as the total list of sectors is called a model. The resulting model is a logical reproduction which symbolically represents the defined economic system.

The South Central Texas Region model consists of sixty-one processing sectors plus final payment sectors and final demand sectors. Each model sector includes specific establishment operations as defined by the Standard Industrial Classification (SIC) organization system. The Standard Industrial Classification System⁷ is a method of organization for the total of all economic activity, in which the

⁶Chapter 5 of this report is devoted to an extended discussion of the many uses for the direct and indirect requirements data.

⁷Executive Office of the President, Bureau of the Budget, Office of Statistical Standards, Standard Industrial Classification Manual: 1967 (Washington, D.C.: U.S. Government Printing Office), pp. V-XII.

economy is first broken into major "divisions," for example:

Division A--Agriculture, Forestry, and Fisheries

Division B--Mining

Division C--Contract Construction

Division D--Manufacturing

Division E--Transportation, Communication, and Utility Services

Division F--Wholesale and Retail Trade

Division G--Finance Insurance and Real Estate

Division H--Services

Divisions are divided into "major groups":

Division A--Agriculture, Forestry, and Fisheries:

Major Group 01--Agricultural Production

Major Group 07--Agricultural Services

Major Group 08--Forestry

Major Group 09--Fisheries

Major groups are further broken down into "operating establishments,"⁸ in which firms are identified by common activities in the output of goods and services--"for example, a farm, a mine, a factory, a store. In most instances, the establishment is at a single physical location; and it is engaged in only one, or predominately one, type of economic activity for which an industry code is applicable."⁹ At this point, firms identification may be placed at the level of detail desired:

⁸ Ibid.

⁹ Ibid.

Division A--Agricultural Production

Major Group 01 --Agricultural Production

011 --Field Crops

0112--Cotton

0113--Cash Grains

0114--Tobacco

0119--Field Crops N.E.C.

Table 11, presents a listing of the South Central Texas Region Model sectors. This table contains a correlative listing of applicable SIC codes for each regional model sector. Each model sector classification is designed to include, as nearly as possible, homogeneous SIC defined activities as they existed in the study region.

Processing Sectors: The "processing sectors" generally refer to economic activities which "create" value, or "add to" the value of goods and services through the production process. Firms included within the processing sectors are not considered as final consumers of goods and services because the goods and services purchased by these firms are "used up" in the production of other goods and services.

For example, the output of Agriculture Sector 3, "Livestock Production," may be sold to Manufacturing Sector 9, "Meat Products," where the livestock is butchered and prepared for market distribution. The meat products may then be distributed through Trades Sector 44, "Food Stores," to "Households" for final consumption. The organization of the processing sectors shows how the separate production processes work together in bringing finished goods and services to the final consumer.

Table 11. South Central Texas Region Model Sectors With
Appropriate Comparative Listings of SIC Firm
Classification Codes, 1967.

	Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
A G R I C U L T U R E	1	Irrigated Crops	0112, 0113, 0313, 0122, 0123, 0119
	2	Dryland Crops	0212, 0213, 0413, 0219, 0141
	3	Livestock	0235, 0135, 0136
	4	All Other Agriculture	0132, 0133, 0134, 0712, 0713, 0714, 0715, 0719, 0722, 0723, 0729, 0731, 0741, 0811, 0822, 0823, 0844, 0843, 0851, 0861, 0912, 0913, 0914, 0919, 0989
M I N I N G	5	Crude Petroleum and Natural Gas	1311
	6	Natural Gas Liquids	1321
	7	Oil and Gas Fields Ser- vices	1381, 1382, 1389
C O N S T R U C T I O N	8	Construction	1511, 1511, 1511, 1611, 1621, 1700

Table 11. (continued)

Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
	9 Meat Products	2011, 2013, 2015
	10 Dairies	2021, 2022, 2023, 2024, 2026
M	11 Milling and Feeds	2041, 2043, 2044, 2045, 2046, 2042
A	12 Food Processing	2051, 2052, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2061, 2062, 2063, 2071, 2072, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2121
N		
U	13 Beverages	2082, 2084, 2086, 2087
F	14 Textile Products	2211, 2221, 2231, 2241, 2251, 2253, 2256, 2259, 2261, 2262, 2269, 2271, 2272, 2279, 2281, 2284, 2291, 2293, 2294, 2295, 2297, 2298, 2299, 2311, 2321, 2322, 2323, 2327, 2328, 2329, 2331, 2335, 2336, 2337, 2339, 2341, 2342, 2351, 2352, 2361, 2363, 2369, 2371, 2381, 2384, 2385, 2386, 2387, 2389, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2399
A		
C		
T		
U	15 Wood Products	2411, 2421, 2426, 2429, 2431, 2432, 2433, 2441, 2442, 2443, 2445, 2491, 2499, 2511, 2512, 2515, 2519, 2521, 2541, 2591, 2599, 2514, 2522, 2542, 2611, 2621, 2631, 2661, 2641, 2642, 2643, 2645, 2646, 2647, 2549, 2651, 2652, 2653, 2654, 2655
R		
I		
N	16 Printing and Publishing	2711, 2721, 2731, 2741, 2732, 2751, 2752, 2753, 2761, 2771, 2782, 2789, 2791, 2793, 2794, 2799
G		
	17 Chemicals and Petroleum Products	28121, 28122, 28123, 28124, 28132, 28133, 28134, 28140, 28151, 28152, 28153, 28163, 28182, 28183, 28185, 28191,

Table 11. (continued)

Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
M A N U F A C T U R I N G	17 Chemicals and Petroleum Products	28192, 28193, 28194, 28195, 28196, 28197, 28198, 28199, 28211, 28212, 28213, 28214, 28215, 28216, 28217, 28219, 28220, 2831, 2833, 2834, 2379, 2871, 2872, 2879, 2841, 282, 2843, 2844, 2851, 2861, 2891, 2892, 2893, 2895, 2899, 2911, 2951, 2952, 2992, 2999
	18 Plastic, Leather, and Glass Products	3011, 3069, 3079, 3111, 3121, 3131, 3141, 3142, 3151, 3161, 3171, 3172, 3199, 3221, 3229, 3231
	19 Clay, Stone, and Cement Products	3251, 3253, 3255, 3259, 3261, 3262, 3269, 3281, 3291, 3292, 3295, 3296, 3297, 3299, 3274, 3275, 3201, 3293, 3271, 3272, 3273, 3241
	20 Metal Products	3312, 3313, 3315, 3316, 3317, 3321, 3322, 3323, 3331, 3332, 3333, 3339, 3341, 3334, 3352, 3356, 3357, 3362, 3369, 3391, 3392, 3399, 3441, 3443, 3444, 3446, 3449, 3442, 3411, 3421, 3423, 3425, 3429, 3431, 3432, 3433, 3451, 3452, 3461, 3471, 3479, 3494, 3498, 3481, 3491, 3492, 3493, 3499
	21 Machinery and Equipment	3522, 3531, 3537, 3534, 3535, 3536, 3532, 3533, 3511, 3519, 3541, 3542, 3544, 3545, 3548, 3551, 3552, 3553, 3559, 3554, 3555, 3561, 3562, 3564, 3565, 3566, 3567, 3569, 3571, 3572, 3576, 3579, 3585, 3581, 3582, 3586, 3589, 3599
	22 Electrical Products	3611, 3612, 3613, 3621, 3622, 3623, 3624, 3641, 3642, 3643, 3644, 3629, 3631, 3632, 3633, 3634, 3635, 3636, 3639, 3651,

Table 11. (continued)

	Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
M A N U F A C T U R I N G	22	Electrical Products	3661, 3662, 3671, 3672, 3673, 3674, 3679, 3691, 3693, 3694, 3652, 3699
	23	Transportation Equipment	3721, 3728, 3722, 3729, 3713, 3715, 3714, 3711, 3731, 3732, 3741, 3742, 3791, 3751, 3799
	24	Other Manufacturing	3811, 3821, 3822, 3841, 3842, 3843, 3851, 3861, 3871, 3831, 3941, 3942, 3949, 3911, 3913, 3914, 3931, 3951, 3952, 3953, 3955, 3961, 3962, 3963, 3964, 3991, 3982, 3983, 3984, 3987, 3993, 3994, 3995, 3999, 1911, 1925, 1929, 1931, 1941, 1951, 1961, 1999
T R A N S P O R T A T I O N	25	Railroad Transportation	4011, 4013, 4021, 4041
	26	Local and Intercity Passenger Transportation	4131, 4132, 4111, 4119, 4121, 4140, 4150
	27	Local and Long Distance Trucking Storage, and Arrangement	4213, 4231, 4212, 4214, 4224, 4221, 4222, 4223, 4225, 4226
	28	Other Transportation	4411, 4421, 4441, 4452, 4453, 4454, 4459, 4463, 4464, 4469, 4511, 4521, 4582, 4583, 4612, 4613, 4619, 4141, 4142, 4151, 4171, 4172, 4742, 4782, 4783, 4784, 4789, 4721
C C O M M U N I C A T I O N	29	Telephone and Telegraph	4811, 4821
	30	Radio and TV Broadcasting	4832, 4833
	31	Other Communication	4899

Table 11. (continued)

	Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
U T I L I T I E S	32	Gas Services	4922, 4923, 4932, 9149, 9249, 9349
	33	Electric Services	4911, 4931, 9151, 9251, 9351
	34	Water and Sanitary Services	9102, 9202, 9302, 4941, 4952, 4953, 4959, 4961
W H O L E S A L E	35	Wholesale Auto, Parts and Supplies	5012, 5013, 5014
	36	Wholesale Groceries	5041, 5042, 5043, 5044, 5045, 5046, 5047, 5048, 5049
	37	Wholesale Farm Products	5052, 5053, 5059, 5054, 4731
	38	Wholesale Machinery, Equipment, and Supplies	5081, 5082, 5084, 5085, 5083, 5088, 5087
	39	Wholesale Petroleum Products	5092
	40	Wholesale: General	5022, 5028, 5029, 5033, 5034, 5036, 5037, 5039, 5063, 5064, 5065, 5072, 5074, 5077, 5091, 5093, 5094, 5095, 5096, 5097, 5098, 5099
R T E R T A D I E L	41	Lumber Yards	5211
	42	Farm Equipment Dealers, Hardware, Paint, Wall- paper, and Electrical	5252, 5221, 5231, 5241, 5251, 5962, 5969

Table 11. (continued)

	Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
R E T A I L T R A D E	43	Department and Clothing Stores	5311, 5331, 5399, 5321, 5611, 5621, 5631, 5641, 5651, 5661, 5671, 5681, 5699
	44	Food Stores	5411, 5421, 5431, 5441, 5451, 5462, 5499
	45	Auto Dealers, Repair Shops, and Gasoline Service Stations	5511, 7549, 5521, 5531, 7531, 7534, 7535, 7538, 7539, 7542, 554-
	46	Furniture and Home Equipment Stores	5712, 5713, 5714, 5715, 5719, 5722, 5732, 7733
	47	Eating and Drinking Places	5812, 5813
	48	All Other Retail	5912, 5921, 5932, 5933, 5942, 5943, 5952, 5953, 5591, 5592, 5599, 5971, 5982, 5983, 5984, 5992, 5993, 5994, 5996, 5997, 5999, 5995, 5341, 5351
F I R E	49	Banking and Credit Agencies	60--, 61--
	50	Insurance Carriers and Other F.I.R.E. n.e.c.	63--, 6411, 62--, 64--, 65--, 66--, 67--
S E R V I C E S	51	Legal Services	8111
	52	Lodging Services	7011, 7021, 7041, 7031, 7032
	53	Personal Services	7211, 7212, 7213, 7214, 7215, 7216, 7217, 7218, 7231, 7241, 7251, 7261, 7271, 7299

Table 11. (continued)

	Regional Model Sector Number	Sector Name	Standard Industrial Classification Number(s)
S			
E	54	All Other Business Services	7311, 7312, 7313, 7319, 7331, 7332, 7339, 7361, 7813, 7814, 7815, 7821, 7395, 7221, 7391, 8921, 7341, 7342, 7349, 7351, 7392, 7393, 7394, 7396, 7397, 73--, 7398, 7399, 7512, 7513, 7519, 7523, 7525
R	55	Motion Picture, Amusement, and Recreation Services	7816, 7817, 7818, 7832, 7833, 7911, 7929, 7932, 7933, 7941, 7942, 7943, 7945, 7946, 7947, 7948, 7949
V	56	Miscellaneous Repair	7622, 7623, 7629, 7631, 7641, 7692, 7694, 7699
	57	Physicians - Dentists	8011, 8021, 8031, 8041
I	58	Hospitals and Other Med- ical Services	8061, 8071, 8072, 8092, 8099
	59	Elementary and Secondary Schools	8211
C	60	Colleges and Universities	8221, 8222
	61	All Other Services	8231, 8241, 8242, 8299, 8911, 8931, 8999, 8411, 8421, 8611, 8621, 8631, 8641, 8651, 8661, 8671, 8699, 8811
E			
S			

The South Central Texas Region model contains sixty-one processing sectors. The identification of these regional sectors was based upon the specific grouping of economic activities found in the study area. Some regional model sectors include highly aggregated industrial activities, while others represent only one or two SIC defined industry activities.

Final Payments Sectors: The South Central Texas Region model includes six final payments sectors. These sectors represent production costs outside the processing sectors and include:

1. Households
2. Savings
3. Federal Government
4. State Government
5. Local Government
6. Imports

The "Households" sector includes payments in the form of wages and salaries as well as other miscellaneous payments made directly to households. In this study, "Savings" includes depreciation and retained profits of the firm. "Federal Government" refers to all forms of payment to federal government including taxes and postage expense. "State Government" and "Local Government" also include all forms of payment to those respective government entities. The "Imports" sectors designate the purchase of goods and services from outside the study region.

The regional model utilizes three separate imports classifications:

1. Imports from outside the study region but from other

areas inside the State of Texas.

2. Imports from outside the State of Texas but from other areas inside the United States.¹⁰
3. Imports from outside the United States, i.e. foreign imports.

The sum of the three import categories represents total imports by regional study sectors.

Final Demand Sectors: The regional model has eight separate final demand sectors. These include:

1. Federal Government: Defense
2. Federal Government: Non-defense
3. State Government
4. Local Government
5. Households
6. Exports
7. Net Inventory Change
8. Capital Formation

"Federal Government," in two categories, refers to purchases for both defense and non-defense purposes. "State Government" and "Local Government" sectors are purchases by these two respective government entities. The "Households" sector records final purchases by private individuals. And "Exports" includes sales of goods and services by regional firms to individuals, businesses, and governments located

¹⁰United States imports category includes a small portion of imports which were not specifically identified by area of origin.

outside the study region. "Net Inventory Change" reflects the estimated net change in finished goods inventory in each of the respective processing sectors, while "Investment" refers to goods produced in the study area and sold to other regional firms for use as capital goods.

The exports classification system is the same as that used to identify imports, i.e. (1) exports outside the study area but inside Texas, (2) exports outside Texas but inside the United States, and (3) exports to foreign destinations. The sum of these three exports categories represents total exports of the study area.

Valuation of Study Data

Survey data were collected by all regional studies in terms of producer's prices.¹¹ Producer's prices exclude the costs of distribution. The dollar value of goods and services consumed is the cost of producing those goods and services. The ultimate consumer also pays the costs of distribution; but these transactions are recorded as sales and purchases between transportation sectors, trades sectors, and the ultimate consumer.

The use of producer's prices allows input-output tables to record a proper account of the separate industrial functions. It also permits an accurate representation of the interrelationships of industrial activities as they jointly contribute to the pro-

¹¹Herbert W. Grubb, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Number 13 (Revised); Input-Output Procedures--Standard Report Form," unpublished project procedures paper, Austin, Texas, September 23, 1969. Also, see "Procedures Number 3," April 7, 1969.

duction, distribution and ultimate consumption of economic goods and services.

The South Central Texas Region control totals are included as Appendix F of this report. These control totals are the dollar value of total regional output, i.e. total sales, by model sector number. Most of the regional control total data were provided by the Texas State Input-Output Project office. A complete listing of control total data sources is included in Appendix F.

Two important adjustments were made to insure the adaptability of regional control total data. Adjustments concerned:

1. Inventory changes
2. Mark-up margins in Wholesale and Retail Trades sectors.

Inventory Changes: Inventory change in the study report is recorded in final demand sectors only. Thus, "Net Inventory Change" includes both increases and decreases in the stock of finished goods. Increases in inventory are identified as positive net changes in inventory, and decreases in inventory are identified as negative net changes in inventory.¹²

Well defined procedures were also followed for the purpose of adjusting control total data for changes in finished goods inventory.¹³ Generally, in accordance with study procedures and control total data sources, some regional control totals were adjusted to align the

¹²Herbert W. Grubb and Anthony Lusk, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Variation in Production Coefficients Due to Inventory Change," unpublished project procedures paper, Austin, Texas, June 24, 1971.

¹³Ibid.

volume of sales with production volumes for the study period.¹⁴

Trades Margins: The South Central Texas Region input-output tables do not show the physical transition of goods and services from the producer--through the trades sectors--to the final consumer. Since the function performed by trades is distributive, the final consumer of goods and services is linked directly to the last stage producer. The Trades sectors, however, also sell their distributive services to the final consumer. The transaction consists of gross margins, i.e. operating expenses and profits.

The use of producer's prices works in direct relation to gross margins for the Trades sectors. The cost of producing goods and services is charged directly to the final consumer while the distributive costs are charged to the final consumer through the Trades sectors.

Data Collection Techniques

Three general methods were used for the collection of data:

1. Direct field survey with standardized data collection procedures.
2. Direct field survey with construction of regional coefficients by special industry study groups.
3. Construction of regional input coefficients through the use of previously collected and published data.

Direct field survey techniques with standard data procedures, method (1) above, were used for the larger part of all study sectors. All sectors in Manufacturing and Trades were conducted in this manner,

¹⁴See Appendix F for specific references with respect to inventory adjustment procedures.

as well as most sectors in the Services industry. Construction of technical coefficients for other industry sectors were completed by combinations of methods (2) and (3) listed above.¹⁵ In the case of methods (2) and (3) above, a selected sample was used in conjunction with a case study approach in which direct survey information from a small selected sample was combined with previously collected and published data.¹⁶

The sampling procedure, as well as the selection of sample interview firms, were determined by the state director of the Texas Input-Output Project. These sampling procedures were designed to accomplish a stratified random sample for most industries in which field surveys were conducted.¹⁷ Upon selection, lists of sample firms were provided to each regional project along with instructions for their use. A list of alternate sample establishments was also provided with each sample group. These sampling procedures are especially applicable to Manufacturing, Wholesale and Retail Trades, and Services industry sectors.

Interview Techniques and Data Processing

South Central Texas Region, as well as all regional projects of the Texas Input-Output Study, followed standardized procedural in-

¹⁵ Special study sectors include Agriculture, Mining, Construction, Transportation, Communications, Utilities, F.I.R.E., Legal Services, Education Services, and Government. See Appendix F for specific references.

¹⁶ Herbert W. Grubb, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Number 10: Input-Output Procedures, The Manufacturing Sector Sample," unpublished project procedures paper, Austin, Texas, April 24, 1969.

¹⁷ Ibid.

structions with respect to the collection and processing of interview data. A standardized questionnaire format was created in order to gain data detail in a uniform manner. Although separate questionnaires were used for different industry interview procedures, these questionnaires continued to follow a central organizational format.

All interviewing took place over a period beginning with the summer of 1969 and continuing through the fall of 1970. Field interviewing was accomplished by graduate research assistants who had received prior instruction and training in the survey techniques of the regional project.

As each interview was completed, the final questionnaire forms were returned to the regional processing center and reviewed in cooperation with the field interviewer. Each completed questionnaire was then checked and edited.

Data analysis methods also followed uniform procedural instructions as provided by the State Input-Output Project Director's Office.¹⁸ These data analysis procedures are designed to create a system of matrix tables in both coefficient values and dollar values.

¹⁸Herbert W. Grubb, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Number 13: Input-Output Procedures, Standard Report Form," unpublished project procedures paper, Austin, Texas, plus revised copies, September 23 and October 6, 1969. Also, Dennis Cooper, et. al., "Number 22: Input-Output Procedures, Preliminary Data Processing Work Flow Design," unpublished project procedures paper, Austin, Texas, September 22, 1970.

CHAPTER 4

THE REGIONAL ECONOMY AND ITS IMPORT AND EXPORT OF GOODS AND SERVICES

The results of the 1967 South Central Texas Region Input-Output Study are included as Appendices A through C of this report. Results consist of the three basic input-output tables; The Dollar Transactions Table, The Direct Requirements Table, and The Direct and Indirect Requirements Table.

The Dollar Transactions Table (Appendix A) shows the dollar value of economic transactions among all regional industries. Each table column shows the dollar value of purchases (inputs) and each table row shows the dollar value of sales (outputs).

The South Central Texas Region Dollar Transactions Table has been summarized and included in this chapter as Table 12. Although this table has been constructed to facilitate the presentation of the regional economy, it may also be used to emphasize the presentation of regional sales distribution.¹

Row identifications in Table 12 show that regional study pro-

¹Table 12 is very useful for the observation and measurement of total sales and of sales distribution, as well as the effects of changing regional economic conditions. For example, those industry groups which sell proportionately greater amounts to final demand will be more immediately affected by changes in final consumption patterns. This is especially true for those industry groups with large sales to Households and Governments. As shown in Table 12, "Services" sold \$832,993,000 to final demand users (82.39% of total sales); Of the approximately \$833 million sold to final demand users, "Services" sold \$620 million to Households (74.48% of sales to final demand). Thus, it is readily seen that changes in Household income, i.e. changes in personal income, would have a dramatic effect upon the level of sales achieved by the "Services" industry.

Table 12. South Central Texas Sales Distribution and Regional Income
in Thousands of Dollars, 1967.^a

Industry and Sector Name	Processing Sectors	Federal Government (Defense)	Federal Government (Non-Defense)	State Government	Local Government
Agriculture	246,937	0	46,960	109	0
Mining	96,958	0	0	0	0
Construction	252,994	56,630	2,137	55,366	30,743
Manufacturing	331,986	16,147	6,122	6,982	654
Transportation	79,176	12,984	2,470	799	0
Communications	44,617	8,770	1,390	3,422	918
Utilities	116,362	12,496	862	1,870	3,014
Wholesale Trade	122,438	5,399	342	6,147	2,384
Retail Trade	201,828	0	0	6	699
F. I. R. E. ^b	199,231	808	23	37	5,683
Services	178,003	2,891	38,989	536	826
Households	2,511,420	488,737	352,218	248,784	41,296
Savings	471,463	-390,665	-353,176	-40,809	-34,355
Federal Gov.	179,473	0	0	1,022	0
State Gov.	46,156	0	157,774	0	0
Local Gov.	69,022	0	1,800	2,582	0
Texas Imports	407,440	0	0	0	0
U. S. Imports	721,127	111,722	36,646	30,107	63,772
Foreign Imports	23,328	0	0	0	0
Total Inputs	6,299,958	325,918	294,558	316,961	115,633

Table 12. (continued)

Industry and Sector Name	Households	Net Inventory Change	Investment	Texas Exports
Agriculture	47,851	-15,320	0	42,996
Mining	1,506	-40	0	89,106
Construction	81,350	0	182,510	0
Manufacturing	304,283	5,078	72,553	201,494
Transportation	57,906	0	0	0
Communications	52,861	0	7,281	3,638
Utilities	89,752	-55	0	19,460
Wholesale Trade	180,427	0	0	164,969
Retail Trade	569,085	0	0	36,513
F. I. R. E. ^b	270,494	0	0	13,840
Services	620,437	-9	0	101,133
Households	115,897	0	53,469	0
Savings	220,948	10,346	0	0
Federal Gov.	439,981	0	0	0
State Gov.	113,031	0	0	0
Local Gov.	42,229	0	0	0
Texas Imports	176,239	0	19,292	0
U. S. Imports	490,998	0	55,669	0
Foreign Imports	10,614	0	0	0
Total Inputs	3,885,886	0	390,175	673,149

Table 12. (continued)

Industry and Sector Name	U. S. Exports	Foreign Exports	Total Sales To Final Demand	Total Outputs
Agriculture	105,592	1,836	230,025	476,961
Mining	128,862	0	219,434	316,392
Construction	182,250	0	590,985	843,979
Manufacturing	251,676	9,197	874,184	1,206,170
Transportation	20,863	0	95,022	174,198
Communications	10,469	0	88,749	133,366
Utilities	0	0	127,399	243,761
Wholesale Trade	66,833	22,329	448,831	571,269
Retail Trade	9,795	9,882	625,980	827,808
F. I. R. E. ^b	4,943	0	295,827	495,058
Services	62,530	5,659	832,993	1,010,996
Households	74,064	0	1,374,466	3,885,886
Savings	506,423	0	-81,288	390,175
Federal Gov.	0	0	441,003	620,476
State Gov.	0	0	270,805	316,961
Local Gov.	0	0	46,611	115,633
Texas Imports	0	0	195,531	602,971
U. S. Imports	0	0	788,313	1,509,440
Foreign Imports	0	0	10,614	33,942
Total Inputs	1,424,300	48,303	7,475,484	13,775,442

^aAppendix A.^bFinance, Insurance, and Real Estate.

cessing sectors have been combined into major industry groups, e.g. "Agriculture" includes regional sectors 1-4; "Mining" includes regional sectors 5-7. However, individual regional final payments sectors have been retained.

Column identifications for Table 12 show the sum of all processing sectors under one heading. Regional final demand sector names have been retained in all other column headings. Thus, to read the table, sales (each row) are shown as a total to all processing sectors and to each regional final demand sector. For example, "Agriculture" sold \$246,937,000 to processing sectors, \$46,960,000 to Federal Government (non-defense), \$109,000 to State Government, \$47,851,000 to Households, experienced a \$15,320,000 net decline in inventories, exported \$42,996,000 to other Texas areas outside the study region, \$105,592,000 to U. S. markets, and \$1,836,000 to foreign markets for a total output of \$476,961,000.

For the reader's convenience, another column entitled, "Total Sales to Final Demand," has also been added. This column presents the sum of all final demand sales by each row industry. For example, "Agriculture" sold \$246,937,000 to processing sectors and \$230,025,000 to final demand sectors for a total output of \$476,961,000.

The Regional Economy

Total value of the 1967 South Central Texas Region output was approximately \$13.8 billion (Table 12).² Manufacturing sectors accounted for the largest dollar value industry segment of total re-

²See Appendix A.

gional output. The value of gross outputs for Manufacturing sectors was approximately \$1.2 billion. The second largest industry segment, by dollar value of outputs (approximately \$1.0 billion), was Services. Wholesale Trade³ was third in dollar volume at approximately \$0.8 billion. The combination of Retail Trade with Wholesale Trade (combined total of approximately \$1.3 billion) would result in an industry ranking similar to that indicated earlier in this report which was based upon employment and earnings data, i.e. (1) Trades, (2) Manufacturing, and (3) Services.

Manufacturing sectors accounted for the largest dollar volume of sales to final demand sectors (\$874,184,000).⁴ Services sectors, volume was second at \$832,993,000. Retail Trade (\$625,980,000) and Construction (\$590,985,000) were third and fourth respectively. Relatively, Services sold 82.39% of its output to final demand; Wholesale Trade sold 78.56%; Retail Trade sold 75.61%; and Manufacturing sold 72.47%.⁴

Total personal income for the study area was approximately \$6.3 billion. Approximately \$2.5 billion of personal income was earned from regional processing industries in the form of wages and salaries and property income. Governments provided another \$1.1 billion in regional personal income. Of the total amount earned from Government, \$0.84 billion was from Federal Government, \$0.25 billion was from State Government, and \$0.04 was from Local Government. Households

³Dollar value of Trades includes only gross mark-up on goods purchased for resale.

⁴See "Exports" below for the value of exports included in this figure.

earned approximately \$0.07 billion outside the study region.

Exports

Regional firms exported approximately \$1.6 billion worth of goods and services to markets outside the study area. As shown in the accompanying table, the largest market area for South Central Texas

Market Areas	Value of Regional Exports to Market Areas
Texas	\$ 673,149,000
United States	\$ 843,813,000
Foreign	\$ 48,903,000
Total	\$1,565,865,000

goods and services was outside Texas but inside the United States. More than \$843 million (or 53.88%) worth of goods and services was exported to these U. S. markets. Approximately \$673 million worth of goods and services was exported to markets inside of Texas, but outside the defined study area. Less than \$50 million of regional output was sold outside the United States.

Manufacturing industry sectors were the largest regional exporters--selling approximately \$460 million to markets located outside the study area. These exports accounted for 38 percent of all regional Manufacturing industry outputs and 30 percent of total regional exports (Table 13). Sector 9, "Meat Products" accounted for more than 20 percent of Manufacturing industry exports (Table 14). The second largest exporter was sector 14, "Textile Products," fol-

Table 13. Gross Value of Output and Percent of Output Exported, by South Central Texas Region Sector Numbers, 1967.

Industry Description	Regional Sector Numbers	Gross Value of Outputs ^a (Dollars)	Percent of Output Exported
Agriculture	1-4	476,961,000	31.53
Mining	5-7	316,392,000	68.89
Construction	8	843,979,000	21.59
Manufacturing	9-24	1,206,170,000	38.08
Transportation	25-28	174,198,000	11.97
Communications	29-31	133,366,000	10.57
Utilities	32-34	243,761,000	7.98
Wholesale Trades	35-40	571,269,000	44.48
Retail Trades	41-48	827,808,000	6.78
F. I. R. E.	49-50	495,058,000	3.79
Services	51-61	1,010,996,000	16.74
Final Payments-to-Final Demand Transactions		7,475,484,000	
Gross Outputs		13,775,442,000	

^aAppendix A.

Table 14. Manufacturing Industry Exports as a Percent of Total Regional Exports and Total Manufacturing Industry Exports by Regional Sector Number, 1967.

Industry Description	Regional Sector Number	Percent of Total Regional Exports ^a	Percent of Regional Manufacturing Exports ^a
Meat Products	9	5.34	20.19
Food Processing	12	2.36	8.93
Beverages	13	2.55	9.64
Textile Products	14	5.27	19.92
Plastic, Leather and Glass Products	18	1.32	4.99
Clay, Stone, and Cement Products	19	2.00	7.56
Metal Products	20	1.72	6.52
Machinery and Equipment	21	2.72	10.30
Transportation Equipment	23	1.95	7.39
Other Manufacturing	24	1.20	4.56
Total Regional Exports = \$1,565,865,000			

^a Appendix A.

lowed by sector 21, "Machinery and Equipment," and sector 13, "Beverages," were third and fourth respectively.

Wholesale Trade was the second largest exporting industry in the study region, with sales of approximately \$254 million outside the study area. Mining was one of the smaller industry segments in dollar value of outputs but, more than 68 percent of its output was exported to make it the third largest regional exporter.

Imports

The largest regional industry importers were Manufacturing and Construction. Regional Manufacturing sectors imported approximately \$371 million worth of goods and services (Table 15). This amounts to 30.8 percent of the total value of inputs to Manufacturing sectors, and 32.19 percent of total regional imports to processing sectors. Construction was the second largest importer at \$236 million. This level represented 20.62 percent of all regional imports and more than 28 percent of the total value of inputs to Construction sectors.

Market Areas	Value of Imports to Processing Sectors (\$1,000)
Texas	\$ 407,440
United States	\$ 721,127
Foreign	\$ 23,328
Total	\$1,151,895

Table 15. Dollar Value of Imports and Percent of Total Imports by Industry Description and Regional Sector Numbers, 1967.

Industry Description	Regional Sector Numbers	Value of Imports ^a (\$1,000)	Percent of Total Imports
Agriculture	1-4	58,200	5.04
Mining	5-7	53,700	4.64
Construction	8	236,800	20.62
Manufacturing	9-24	371,500	32.19
Transportation	25-28	1,900	.16
Communication	29-31	29,500	2.57
Utilities	32-34	10,000	.88
Wholesale Trade	35-40	29,900	2.59
Retail Trade	41-48	205,900	17.85
F. I. R. E.	49-50	54,600	4.75
Services	51-61	100,100	8.71
Total ^b		1,151,895	

^aAppendix A.

^bMay not total correctly due to rounding.

As listed above, the largest source of imports to regional industry was suppliers located outside Texas but inside the United States. Almost 50 percent of all imports to the study region processing sectors came from this defined area source. From within Texas, South Central Texas Region industry purchased more than \$407 million. Foreign imports amounted to approximately \$23 million.

A comparison of Table 14, above with Table 15 shows that South Central Texas Region was a net exporter of total goods and services from the processing sectors. Total exports from processing sectors were approximately \$1.565 billion, while imports were substantially less at approximately \$1.151 billion. However, the study region was a large importer of goods and services to final demand. More than \$994 million of imported goods and services were consumed by regional final demand sector components. Thus, inclusive of final demand sectors, the study region was a net importer of goods and services.

Government sectors, which are included in final demand, were large importers of financial resources as well as goods and services. Federal and State Government sectors also expended approximately \$785 million more than they jointly collected in taxes from the study area (Table 12 or Appendix A).

The study area was a net exporter of goods and services from the total of its identified processing sectors. However, several industries dominated with respect to export volume (Table 16). Wholesale Trade was the leading net export industry with a net balance of almost \$225 million. Mining, a relatively small industry in terms of total output, was second largest net exporter at approximately \$160 million. Agriculture was the third largest net exporter followed by Manufacturing

Table 16. Dollar Value of Total Imports and Total Exports by Industries, South Central Texas Region--1967.^a

Industry Description	Regional Sector Numbers	Value of Imports ^a (Millions \$)	Value of Exports ^a (Millions \$)
Agriculture	1-4	58.3	150.4
Mining	5-7	53.6	218.0
Construction	8	237.9	182.2
Manufacturing	9-24	371.5	459.4
Transportation	25-28	1.9	20.9
Communication	29-31	29.5	14.1
Utilities	32-34	10.1	19.5
Wholesale Trade	35-40	29.9	254.1
Retail Trade	41-40	205.9	56.2
F. I. R. E.	49-50	54.7	18.8
Services	51-61	100.1	169.3

^a Appendix A.

as fourth in relative importance.

The input-output model shows that the study area was a large importer of finished goods, with final demand sectors importing large volumes of goods and services. However, the study region expended government monies far in excess of regional revenue collections. Because of the large import expenditures by both Households and Governments, the study region was a net importer, i.e. total imports exceeded total exports.

CHAPTER 5

EXTENDED ANALYSES METHODS AND STUDY RECOMMENDATIONS

As illustrated in Chapter 3, above, the uses and applications of the Transactions Table and the Direct Requirements Table are straightforward and rather self-evident. Singly or individually, these two tables represent a comprehensive and detailed economic analysis of the study region. These tables also have some value for extended use in the interpretation and analysis of the study region.¹ However, the Direct and Indirect Requirements Table is perhaps one of the most valuable, continued-use results of this study.

The Direct and Indirect Requirements Table

The Transactions Table is the basic tabular result of all input-output studies. This table is a highly organized exposition of the regional economy in dollar values. This table, however, has extremely limited usefulness due to its static and cumbersome means of data communications, i.e. dollars. However limited The Transactions Table may be in extended use, it is the basis from which all other vehicles of analysis are computed. For example, the Direct Requirements Table is a direct result of simple analytical procedures as applied to the Transactions Table. The Direct and Indirect Requirements Table is another and still further extended derivation of economic tools of analysis based upon the Transactions Table data--via the Direct Requirements Table.

¹See Chapter 3 above. Also see footnote (1) to Chapter 4.

As stated in Chapter 3 of this report, the simple definition of the Direct and Indirect Requirements Table is:

The Direct and Indirect Requirements Table expresses the relative, inter-related inputs of one industry sector needed from other industry processing sectors--both directly and indirectly--to deliver one dollar's worth of goods and services to final demand.

The Direct and Indirect Requirements Table is a highly efficient economic index which maintains a constant and consistent record of the multitudinous economic interrelationships of the defined study economy. This economic index may be used (under stated assumptions)² to continuously examine the effects of changing conditions, both real and anticipated, within the study economy. This system of analysis may continue to be used with two major benefits:

1. Economic analysis may continue for extended periods of time without the tremendous expense of recreating basic economic survey data.
2. This system of analysis has speed and simplicity difficult to match by other systems of regional economic analysis.

Uses of the Direct and Indirect Requirements Input-Output Table

Potential uses for the Direct and Indirect Requirements Table, with respect to regional economic analysis, are virtually unlimited. The true limitations include the technical abilities of the user, the accuracy requirements of analytical results, and the existing body of theoretical economic knowledge. However, the most commonly used applications for the Direct and Indirect Requirements Table may be summarized under three major categories:

²The stated assumptions include the economic conditions which prevailed at the time of the study period--unless adjusted. These assumptions include constant industry production coefficients and prices.

1. Direct applications--where values used for analytical applications may be directly abstracted from the Direct and Indirect Requirements Table.
2. Internal computations--where applications are derived from minor adjustments of previously computed values. This category includes such popular applications as "impact" and "multiplier" analyses.
3. Internal and external computations--where applications are derived from major internal reorganization of data as well as variations of external data values based either upon known data or projected occurrences. This category includes projection and forecasting techniques, as well as qualitative economic evaluation applications. Example applications include public policy evaluation and "balanced" regional economic development.

Directly Abstracted Applications: The total of all recorded values in the Direct and Indirect Requirements Table may be used for various applications in their originally computed value forms. For example, the sum of all direct and indirect requirements, by industry sector classification, are presented as column totals in Appendix C of this report. For the reader's convenience, these data have been independently listed in Table 17 of this report under the column heading entitled "Final Demand Multipliers."⁵ These "Final Demand Multi-

⁵Theodore W. Roseler, et. al., The Economic Impact of Irrigated Agriculture on the Economy of Nebraska, Nebraska Economic and Business Reports, No. 4, Bureau of Business Research, University of Nebraska. [See the cited study for further explanations and illustrations for evaluative use. These above simple multipliers were also used to conduct extended "impact" analysis.]

pliers" represent the multiple value of output created from the increase of one dollar in the sales to final demand by each respective industry sector.

As an example, the final demand multiplier for the South Central Texas Region model sector 1, "Irrigated Crops," is shown by Table 17 to be 1.428035. Thus, if sales by sector 1 to a final demand sector should increase by \$1,000, the total of all direct and indirect transactions required to achieve that increased output would amount to \$1,428. Furthermore, if the column of direct and indirect requirements for sector 1 is consulted in Appendix C, it can be determined to what extent each of the other sixty-one processing sectors of the economy participate, or share, in the increased sales of sector 1 to final demand. For example, direct and indirect requirements from sector 4, "All Other Agriculture," would be \$10; while sector 17, "Chemical Products," would share in the increased sales of sector 1 by \$75.⁴

Column 2 of Table 17 also lists another commonly used value directly obtained from the Direct and Indirect Requirements Table. This value, usually referred to as an "Intra-Sector Final Demand Multiplier," is found in the table as the row-column intersect of each industry sector. For example, sector 1 of the regional model has a row-column intercept value of 1.002829. This value simply indicates that "Irrigated Crops" must produce an amount greater than the increase it expects, or may experience, in a final demand sector. The value results from intra-sector transactions, that is, sales and purchases which occur between sector 1 firms.

⁴ Each Value of the Direct and Indirect Requirements Table is an independent multiplier.

Table 17. Intra-Sector Final Demand, Final Demand and Output Multiplier: South Central Texas Region, 1967.

Regional Model Sector Numbers ^a	Intra-Sector Final Demand Multipliers ^b	Final Demand Multipliers ^c	Output Multipliers
1	1.002829	1.428035	1.424006
2	1.022660	1.496650	1.463487
3	1.083550	1.600961	1.477515
4	1.128009	2.154907	1.910363
5	1.004097	1.230530	1.225509
6	1.000188	1.376491	1.376232
7	1.090312	1.198768	1.099472
8	1.360906	1.727050	1.269044
9	1.004700	2.151115	2.141052
10	1.032392	2.130598	2.063749
11	1.090525	1.559013	1.429599
12	1.020006	1.261385	1.236645
13	1.000173	1.134345	1.134149
14	1.000838	1.389018	1.387855
15	1.089220	1.287579	1.182111
16	1.017336	1.274718	1.252996
17	1.085117	1.349151	1.243323
18	1.000242	1.340266	1.339942
19	1.104861	1.440670	1.303938
20	1.013058	1.138634	1.123957
21	1.004771	1.146223	1.140780

Table 17. (continued)

Regional Model Sector Numbers	Intra-Sector Final Demand Multipliers	Final Demand Multipliers ^c	Output Multipliers
22	1.001672	1.271758	1.269635
23	1.030982	1.164770	1.129768
24	1.016073	1.291862	1.271426
25	1.049272	1.426761	1.359763
26	1.000010	1.350147	1.350133
27	1.001099	1.479452	1.477828
28	1.000674	1.396709	1.395768
29	1.000221	1.042419	1.042189
30	1.002326	1.275668	1.272708
31	1.000022	1.427119	1.427088
32	1.007544	1.617573	1.605461
33	1.0001	1.315759	1.314702
34	1.000576	1.428932	1.428109
35	1.000434	1.162793	1.162289
36	1.001887	1.484502	1.481706
37	1.022244	1.385878	1.355721
38	1.002381	1.704043	1.699995
39	1.000182	1.329920	1.329678
40	1.004655	1.394431	1.387970
41	1.000855	1.239229	1.238170

Table 17. (continued)

Regional Model Sector Numbers	Intra-Sector Final Demand Multipliers	Final Demand Multipliers ^c	Output Multipliers
42	1.000061	1.325105	1.325024
43	1.000007	1.247814	1.247805
44	1.000088	1.383333	1.383211
45	1.114894	1.224186	1.098029
46	1.000002	1.404839	1.404836
47	1.012662	1.407252	1.389656
48	1.000442	1.419033	1.418406
49	1.027410	1.122835	1.092879
50	1.050433	1.210289	1.152181
51	1.000169	1.058107	1.057928
52	1.017423	1.880506	1.848303
53	1.001780	1.334414	1.332043
54	1.044886	1.410607	1.350010
55	1.001322	1.461944	1.460014
56	1.000122	1.079795	1.079663
57	1.001348	1.110705	1.109210
58	1.004227	1.227143	1.221979
59	1.000190	1.237239	1.237004
60	1.000036	1.355557	1.355508
61	1.037734	1.518982	1.463749

^aSector numbers refer to the regional model organization.

^bValue of row-column intercepts from Appendix C.

^cSum of industry sector columns. See Appendix C.

A combination of the use of both intra-sector final demand multipliers in conjunction with final demand multipliers consists of a simple ratio of the two values. This ratio is called an "Output Multiplier"⁵ and expresses the relationship between the requirements of one sector's increased sales (to final demand) to the total of all sector requirements per dollar of new sales by the initiating sector. In the previous example, the Final Demand Multiplier for "Irrigated Crops" was 1.428035. The Intra-Sector Final Demand Multiplier was 1.002829. Therefore, the Output Multiplier for regional model sector 1, "Irrigated Crops," would be the ratio of these two or 1.424006. Thus, the Output Multiplier relates the total requirements for increased sales by sector 1, to final demand, to the production needs of the sector itself.⁶

Final demand multipliers and output multipliers are useful in the evaluation of levels of interdependence among the various regional economic sectors. The level of interdependency refers to the level of purchases and sales transactions by one processing sector with other processing sectors within the study area. Therefore, the higher the interdependency of each sector, the higher the multiple, overall regional increase that will result from higher outputs and sales by that sector.

The preceding example illustrates that for each \$1.00 of increased sales to final demand by "Irrigated Crops" sector, overall output increased by \$1.42 among all regional processing sectors. As shown by Table 16, an increase of \$1.00 in sales to final demand by sector 4,

⁵Roseler, et. al., loc. cit.

⁶Ibid.

"Other Agriculture" would result in an overall increase of \$2.15; but a \$1.00 increase by sector 56, "Miscellaneous Repairs" would result in an overall increase of only \$1.08. Therefore, the relative regional economic importance of each sector is determined not only by the dollar value of its output, but also by the degree of its intra-regional trade transactions.

The degree of interdependency also implies the "self-sufficiency" of the study area. For example, if an economic sector imports large quantities of its production materials, increased sales to final demand would have a lesser overall regional impact than a sector which purchases production materials locally.⁷ On the other hand, intra-regional purchases increase the degree of interdependency and thereby increase the effects of increased sales to final demand. This latter point is illustrated by regional sector 9, "Meat Products" and regional sector 10, "Dairies." As shown in Table 16, both of these sectors have relatively large final demand multipliers, at 2.151115 and 2.130598 respectively. Both are manufacturing industry sectors with large production purchases from within the study area. "Meat Products," for example, has major inter-sector output relationships with regional sector 3, "Livestock"; and "Dairies" has major inter-sector output relationships with regional sector 4, "Other Agriculture."

As shown by the above examples, the Direct and Indirect Requirements Table can be used in its original value form as a ready economic

⁷ If a sector has a high relative labor input cost, this would also tend to reduce the overall impact of increased sales to final demand. See "income multiplier" and "employment multiplier" analysis below for a further explanation of income increases for labor intensive sectors.

index to make immediate evaluations of actual or projected output and sales changes within defined, regional economic sectors. However, it should be remembered that these observations are made under the assumption of static regional economic relationships. In other words, the uses under this first category are limited to isolated changes, rather than to comprehensive or extensive changes.⁸

Applications by Use of Internal Computations: A second category of analytical uses for the Direct and Indirect Requirements Table involves internal computations. This category includes such tools of analysis as income multipliers, impact analysis, and employment multipliers.

The calculation of income multipliers involves a variation of the existing table organization for this report. "Households" as an economic sector is moved from the final payments table quadrant, as well as the final demand quadrant, into a balanced row and column which are included with the other economic processing sectors. In the case of the South Central Texas Region study, the processing sectors would be "closed" with respect to Households so that the processing sectors would then be presented as a sixty-two by sixty-two square matrix. After this modification has been accomplished, the new set of processing sectors (including Households) could be manipulated to the construction of a new and totally different set of coefficients which would represent the direct, indirect, and "induced" changes resulting

⁸See forecasting and projection techniques below for more extensive evaluation applications.

from an increase of delivery to final demand of one dollar by each processing sector.⁹

By including Households within the matrix of processing sectors, it is now possible to determine the direct requirements to Household inputs (to a large part labor) required per dollar of output. This process is analogous to the Direct Requirements Table, or Appendix B of this report. Following the construction of a new Direct Requirements Table inclusive of Households, a Direct and Indirect Requirements Table may also be computed. The results are again similar to the Direct and Indirect Requirements Table, or Appendix C, which show the total requirements from each sector, including Households, required for delivery of one dollar of goods and services to final demand. Finally, through a process of matrix multiplication, direct income changes, direct and indirect income changes, as well as the separate value of only indirect income changes, may be determined. And, from the combined information of both the original Direct Requirements Table, Direct and Indirect Requirements Table, the Closed Direct Requirements Table, and the Closed Direct and Indirect Requirements Table, income multipliers may be determined. These income multipliers not only indicate the total increase in income that results from increased final demand of each producing sector, but the varying distri-

⁹William H. Miernyk, The Elements of Input-Output Analysis, (Random House: New York, New York, 1967). [See pp. 42-55 for further explanations concerning this process.]

tribution of income-generating powers of all industry sectors.¹⁰

A similar type of multiplier analysis exists with respect to employment. By the computation of a simple ratio of the number of workers per total dollar of output,¹¹ the direct employment relationship to industry production may be determined. In economic terminology, this refers to the employment portion of the industry production function.

In a manner similar to that used for the construction of income multipliers, extended sets of employment multipliers may also be derived. These multipliers include the direct (as noted above) as well as the direct and indirect employment multiplier.¹² In other words, changes in the employment levels (number of workers) of all of the economy's sectors, as well as the major change that occurs in the initiating sector. In this manner, an increase in the final demand for output of one sector would result in a direct increase in the employment of that industry sector. It would also result in an overall larger total increase in employment as a result of the spreading, yet increasingly minor employment changes throughout other economic industry sectors.

¹⁰See the following studies for example applications: Nelson L. Bills and Alfred L. Barr, An Input-Output Analysis of the Upper South Branch Valley of West Virginia, West Virginia University Agricultural Experiment Station, Bulletin #568T, June 1968.

M. Jarvin Emerson, et. al., The Interindustry Structure of the Kansas Economy, Office of Economic Analysis and Kansas Department of Economic Development Planning Division, Report No. 21, State of Kansas, January 1969.

¹¹The labor-input ratios for all South Central Texas Region model industry sectors have been computed and are included as Appendix E to this report.

¹²Bills and Barr, op. cit.

As mentioned above, another type of analysis procedure is referred to as "impact analysis." Impact analysis is not a singular procedural methodology, but a term applied to a wide range of techniques for the measurement of total effects which result from changing economic conditions. Impact analysis may vary from the projection of increased output in one sector (as illustrated by use of final demand multipliers above), to the evaluation of new industrial technological procedures. Therefore, impact analysis may utilize the full range of multiplier analyses, as well as combinations of these multipliers.

For example, assume that an existing manufacturing industry, in order to meet increased sales to final demand, announces an expanded output for the next year. What will be the total impact of this change upon the regional economy?

- (1.) The output multiplier,¹³ as described above, will provide an estimate of the multiple output increase which will result from the proposed change.
- (2.) New final demand values may be estimated, the column of new final demand multiplied times the direct and indirect requirements matrix and thereby determine the new value of estimated total output.
- (3.) A closed regional model may be used in the same manner, as described in steps (1) and (2) above, to determine the changes in personal income as well as total effects inclu-

¹³The output multiplier, rather than the final demand multiplier would be applicable here since the proposed change is an increase in output. Part of this increased output will be consumed within the initiating processing sector.

sive of induced changes.

- (4.) Employment multipliers may be used in conjunction with the combinations of methods (1) through (3) above to determine the number of new economy-wide jobs which will result from the announced change.

Therefore, the direct and indirect requirements table may be used in this example to determine the regional economic impact resulting from an output change by one industrial sector.

This second category of Indirect and Direct Requirements Table applications has many, many other useful possibilities. Other commonly used applications include capital multipliers, as well as profit evaluation procedures, and land or natural resource multipliers. Each of these extended applications allows the analyst to determine not only the immediate and direct relationships of changes in sector values, but also the total of all inter-related effects that would and do occur throughout the rest of the regional economy.

Applications Through Major Internal and External Computations:

Some of the more meaningful applications of the Direct and Indirect Requirements Table require major internal, and/or external variations in tabular data. These applications in their most commonly used form generally reflect upon projected, that is, anticipated or proposed, changes within the regional economic structure.¹⁴ However, these applications as a category, are not limited to projection and/or feasibility

¹⁴For an extended and technical discussion on projection techniques, see Walter Isard, et. al., Methods of Regional Analysis: An Introduction to Regional Science (The M.I.T. Press: Cambridge, Massachusetts, 1967), pp. 363-371.

study.

One group of study applications within this category is gaining a stronger and more widespread use. This latter group of applications includes a series of economic and/or social qualitative evaluation techniques.¹⁵ It would be difficult, if not impossible, to present computational examples of these more intricately involved uses of the Direct and Indirect Requirements Table.¹⁶ However, the following material is presented as a direction-finder for those who might use the data content of this report as a basis for extended study at a future date.

One example of a topic of interest in many areas of Texas, as well as the United States, is a proper or orderly program for economic development. It has been found by past experience that not all economic increases are necessarily beneficial changes. The use of the direct and indirect requirements data of this input-output study may be used to evaluate anticipated or recently occurring industrial developments. By making such industrial development evaluations, it may be determined that anticipated industrial advances may weaken, impede, or jeopardize completely the orderly operation of other established industrial operations. On the other hand, it may be determined that proposed industrial development may more than fill a missing gap

¹⁵ For a concise discussion of qualitative input-output applications, see Chiou-Shuang Yan, Introduction to Input-Output Economics (Holt, Rineholt, and Winston: New York, New York, 1968), pp. 86-102.

¹⁶ For an example study illustration covering several levels of use for the direct and indirect requirement table data, see William H. Miernyk and Kenneth L. Shellhammer, et. al., Simulating Regional Economic Development With An Input-Output Model, Regional Research Institute, West Virginia University, Morgantown, West Virginia, July 1968.

in the regional industrial economic structure. This proposed new industrial advancement may contain economic interrelationships which have been historically missing within the defined region--as well as promote still other beneficial changes. In effect, all industrial development changes may be not only evaluated, but planned. As an end objective, regional economies may plan a balanced or desired route of economic development that will not only increase the productive output of an area, but maintain the solidity of existing industries as it develops in a more orderly manner.

The above example illustrates only one very narrow application within this third category. The full extent of applications is limited only by the imagination of planners with a foresight to anticipate and interpret the existing and future problems and assets of the economic region. This category should certainly consider the probable evaluation of employment and employment levels, including structural unemployment. It should also consider the impact of government action programs, as well as the welfare objectives, of the region. Economic quality, in other words, may be evaluated simultaneously with the quantitative results that occur in economic development.¹⁷

Summary

The final chapter of this report has presented several basic guidelines to users of the study results:

- (1.) It has organized existing categories of use

¹⁷ For a comprehensive listing of available input-output studies covering a wide range of applications, see: Phillip J. Bourque and Gerald Hansen, An Inventory of Regional Input-Output Studies in the United States, Graduate School of Business Administration, University of Washington, Seattle, Washington, 1967.

techniques for the South Central Texas Region study results.

- (2.) It has noted previous studies and other sources of technical information to assist in the further use of study results.
- (3.) It has cited examples of applied study uses in order to clarify the meaning of regional tabular data.

The results of this study should find a wide range of potential uses among regional businessmen as well as all levels of government. By use of study data, the businessman has an available and readily usable tool by which he may evaluate the impact of changing economic conditions as they may affect his business operations. He may equally anticipate the effects of changing conditions as they affect both his suppliers and his customers. He may also examine the ramifications of proposed actions by his own business or industry group.

All levels of government¹⁸ should find these study results extremely useful in their respective areas of responsibility. Many governmental actions have direct and immediate effect upon segments of the economy. However the direct economic effects of government actions result in indirect and multiple effects throughout the total economic structure. By use of these study results, governmental bodies may evaluate the total economic impact of proposed actions.

¹⁸This study may be adapted to smaller areas within the study region. Although the accuracy of estimated results may vary, general evaluation applications should produce results within the range of acceptable approximation.

Tax levels and methods of taxation, business regulation controls, all levels of government expenditures, public investment programs, industrial development, and agency planning criteria should receive the interpretive benefits of these study results.

APPENDIX A

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	1	2	3	4	5	6	7	8
1 IRR CROPS	83.239	0	829.446	2127.813	0	0	0	0
2 DRYLAND CROP	0	1783.402	13958.538	3791.107	16.079	0	0	0
3 LIVESTOCK	0	0	18517.153	0	0	0	0	0
4 OTHER AGRI	335.965	3046.687	4558.615	11975.159	0	0	0	0
5 CR. PET&N. GAS	0	0	0	0	894.823	6946.522	8.058	0
6 N. GAS LIQ	0	0	0	0	0	0	0	4058.612
7 OIL & GAS FLSV	0	0	0	0	35168.676	800.830	4366.854	0
8 CONSTRUCTION	339.174	654.506	1909.599	2750.031	2497.784	738.189	302.250	223268.467
9 MEAT PROD	0	0	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	1.735
11 MILLING & FEED	0	0	7630.861	26781.650	0	0	0	0
12 FOOD PROCESS	0	0	9756.923	623.777	0	0	0	0
13 BEVERAGES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	0	0	0	0	5.486	0.033	0.739	4397.241
15 WOOD & PAPER PROD	22.965	47.740	3026.969	1421.734	1.234	0.021	0.298	9277.046
16 PRNT & PUBS	0	0	8.184	0	70.448	0.008	0.332	747.530
17 CHEM & PET PRO	2378.033	8497.295	1663.523	1587.340	0	87.015	24.395	20.589
18 PL & FEG L PRD	0	0	303.476	0	0	0	0	0
19 CLG & STEEL PRD	0	0	0	0	0	0	0	23744.260
20 METAL PROD	0	0	865.846	100.677	0	0	0	45341.613
21 MACH & EQUIP	0	0	0	0	67.447	7.443	72.912	347.181
22 ELECT PROD	0.200	0.447	6.246	1.002	0.682	0.084	7.323	314.426
23 TRANS EQUIP	0	0	0	0	0	0	0	1305.500
24 OTH HFGR	0	0	18.953	75.508	0	0	0	1041.381
25 RR TRANSPOR	0	0	0	0	0	0	0	0
26 LG INTER TRAN	0	0	0	0	0	0	0	0
27 LG DTRCK, STR	0	0	803.384	2165.456	75.674	122.034	14.783	728.212
28 OTHER TRANS	0	0	0	0	0	0	0	0
29 TELE & TELEG	96.276	194.540	495.384	397.586	313.642	147.555	191.394	1097.978
30 RADIO & TV BRC	0	0	0	0	0	0	0	150.924
31 OTH COMM	0	0	0	0	0	0	0	30.184
32 GAS SERVICES	962.766	0	18.307	337.447	5.355	0	39.334	90.554
33 ELEC SER	708.034	194.540	912.153	1382.978	50.061	62.723	37.434	325.607
34 WATER SAN SER	0	0	0	3.563	1.397	0	23.231	747.078
35 WHL AUT PTES	43.725	242.840	122.338	110.143	0	0.774	69.326	150.426
36 WHL GROC	0	0	0	0	26.623	2.885	28.298	134.608
37 WHL FARM PRO	449.591	558.466	7469.851	7329.519	0.487	0.001	0.055	0.075
38 WHL MAC, EQ, S	0.200	0.447	186.738	1.002	25.930	44.380	855.841	1599.637
39 WHL PET PROD	169.186	1276.701	998.923	491.582	0	0	138.678	1180.866
40 GEN WHL	869.197	2766.392	4191.923	1441.892	55.588	0.637	10.792	46872.514
41 LUMBER YARDS	8.825	20.460	888.030	76.621	0	0	0.001	2012.055
42 FEO. W, E	2024.718	7157.759	6257.030	8957.620	0	0	0.192	171.099
43 DE. THST	0	0	0	0	0	0	0.978	0
44 FOT. RES	0	0	0	0	0.487	0.001	0.055	0.075
45 AUT L. AP. GS	693.994	3922.344	3812.630	1659.173	153.172	79.426	345.877	940.699
46 FURN, HY F&EQ	0	0	0	0	0	0	0	154.814
47 FATEDRINK PL	0	0	0	0	0	0	0	0
48 OTH RETAIL	0	0	0	0	342.828	1.015	38.988	52.982
49 BANK & CRF AGE	788.766	979.412	3278.692	1256.574	1476.237	0.676	811.776	8659.316
50 OTHER F. I. R. E.	702.017	1355.077	6682.307	3150.068	1672.059	0.122	29.355	9768.614
51 LEGAL SER	0	0	0	0	114.702	0	25.712	1075.339
52 LOGGING SER	0	0	0	0	0	0	0	0
53 PERSONAL SER	0	0	0	0	0	0	52.323	0
54 OTH BUS SER	24.069	45.840	830.307	323.637	322.024	48.242	358.079	4301.359
55 AMUSEMENT	0	0	0	0	0	0	0	0
56 MISC REP	199.573	60.374	155.076	322.969	9.546	0	88.754	1912.973
57 PHYS & DENTIST	0	0	0	0	0	0.399	118.849	75.462

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58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	0	0	0	192.779	186.308	0.245	128.511	4897.513	0
62 HOUSEHOLDS	14133.080	36051.956	62872.273	16454.860	99853.569	7352.264	23812.329	172908.309	0
63 FED GOVT	978.812	844.128	1837.230	646.273	3707.823	5640.327	854.173	15685.643	0
64 STATE GOVT	24.069	45.840	120.615	146.338	12802.516	7.502	233.052	1682.812	0
65 LOCAL GOVT	1642.720	3200.978	8172.769	5488.146	8885.132	404.692	56.494	1086.659	0
66 GROSS SAVING	395.669	4559.442	9635.235	-11354.051	9068.762	1621.475	1472.485	6681.010	0
67 DEPRECIATION	2908.357	7195.326	18992.615	9003.615	22144.490	2023.800	1832.687	9059.267	0
68 IMPORTS	3816.766	8207.048	39011.797	7229.395	32827.620	4605.659	16346.977	237865.626	0
TOTAL	34799.986	92909.987	240799.979	108450.983	232844.981	30746.979	52799.979	843979.070	0

TRANSACTIONS TABLE : SOUTH CENTRAL ,TEXAS, 1967 (THOUSAND DOLLARS)

	9	10	11	12	13	14	15	16
1 IPR CROPS	21.803	0	3537.793	3432.795	40.115	0	0	0
2 DRYLAND CROP	0	0	7837.793	8989.126	548.699	1014.642	559.025	0
3 LIVESTOCK	104081.140	0	0	0	0	17123.076	0	0
4 OTHER AGRI	10608.047	28067.524	0	20.065	0	0	0	0
5 CR,PET&N,GAS	0	0	0	0	0	0	0	0
6 N,GAS LIO	21.445	0	0	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	3.432	1.054	0.208	0.019	0.016	0.479	20.690	3.830
9 MEAT PROD	791.473	0	0	6.054	0	0	0	0
10 DAIRIES	0	1916.392	0	0.730	8.721	0	0	0
11 MILLING&FEED	0	0	3934.280	55.811	0	0	0	0
12 FOOD PROCESS	2.978	0	0	2891.039	382.678	0	0	0
13 BEVER: ES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	5.653	1.427	796.337	0.736	0.977	59.768	8.197	7.442
15 WOOD& PAPER PROD	898.784	0.301	0.046	2280.992	148.355	374.235	5933.977	5293.972
16 PRNT&PUBS	0.037	6.504	0	275.402	0.028	71.689	53.333	984.362
17 CHEM&PET PRO	89.751	1.294	27.252	94.133	11.642	0.572	66.803	375.183
18 PL&LEGL PRO	42.890	0	0	372.077	252.426	0	112.733	0
19 CL&STCE PRO	0	0	0	0	0	0	0	0
20 METAL PROD	0	3.240	0	0	0	473.627	53.319	63.171
21 MACH&EQUIP	10.862	3.871	0.644	4.289	1113.500	17.958	108.029	154.137
22 ELECT PROD	1.753	7.757	0.300	0.066	1.419	0.106	0.657	0.553
23 TRANS EQUIP	0	0	0	372.077	0	0	0	0
24 OTH MFGR	0	0	0	0	0	0	29.706	55.467
25 RR TRANSPOR	0	0	0	0	0	0	1404.285	0
26 L&INTER TRAN	0	0.324	0	0	0	42.535	0	0
27 LGDTRCK,STR	1748.979	4.537	0	2636.166	14.135	334.072	2738.362	1148.896
28 OTHER TRANS	0	18.149	0	0	0	52.094	0	24.652
29 TELF&TELEG	220.409	82.967	136.507	559.976	159.533	187.825	434.177	410.870
30 RADIO&TV BRC	0	0	0	0	0	0	0	0
31 OTH COMM	0	0	0	0	0	0	0	14.894
32 GAS SERVICES	91.142	107.598	72.992	169.295	203.380	440.172	25.898	82.590
33 ELEC SER	274.022	297.839	113.755	394.401	389.091	1913.626	147.772	233.740
34 WAT&SAN SER	29.785	22.038	58.251	40.928	282.970	123.305	43.417	88.540
35 WHL AUT PT&S	13.966	74.944	3.556	0.102	9.958	0.901	1.235	0.502
36 WHL GROC	4.215	6.596	0	164.390	1841.878	2.329	11.756	18.805
37 WHL FARM PRO	25.595	0.003	0	55.046	0.004	0	0.002	0.140
38 WHL MAC,FQ,S	53.275	54.710	0.254	0.019	0.419	24.185	1.061	55.173
39 WHL PET PROD	23.089	65.665	0	14.138	7.520	0	0	0
40 GEN WHL	54.666	15.380	0.668	8.934	14.022	0.457	88.006	78.302
41 LUMBER YARDS	0	0	0	0	0	0	28.987	0
42 FFO,HT,P,W,E	0	0	0	0	0	0	0	0
43 DEPT&CLOTHST	0	0	22.182	0	180.484	0	0	4.040
44 FOOD STORES	0.006	0.003	0	0.010	0.004	0	0.002	13.827
45 AUT DL&RP,GS	27.600	18.360	201.484	17.978	492.045	17.882	168.576	52.881
46 FURN,HN F&EQ	0	0	0	0	0	0	0	0
47 EAT&DRINK PL	0	12.522	0	0	0	0	0	0
48 OTH RETAIL	4.428	2.676	0	7.683	3.336	0	1.572	98.632
49 BANK&CRE AGE	0	0	0	39.068	0	716.893	1083.157	0
50 OTHER F.I.R.E.	723.181	332.516	1183.061	200.921	70.679	391.423	607.847	160.239
51 LEGAL SER	16.083	12.639	22.751	124.645	60.582	40.146	421.989	74.470
52 LODGING SER	0	3.889	0	9.301	0	0	0	195.677
53 PERSONAL SER	23.828	93.013	0	83.717	0	0	2.285	1260.858
54 OTH BUS SER	101.269	1432.155	68.253	3116.146	3052.338	366.093	393.806	2461.114
55 AMUSEMENT	0	0	0	0	0	0	0.761	164.861
56 MISC REP	219.813	234.317	614.281	208.363	34.329	191.171	445.602	70.361
57 PHYS&DENTIST	0	3.889	0	1067.861	0	0	2.285	0

58 HOSP/EMED SER	0	6.157	0	0	0	0	0	0	0
59 ELEM/SEC SCH	0	0	0	0	0	9.558	0	0	0
60 COL/UNIV	0	0	0	0	0	0	0	0	0
61 DTH SERVICES	151.903	373.352	159.258	1.860	236.270	44.447	863.783	681.531	0
62 HOUSEHOLDS	32018.989	12341.951	4823.251	55246.142	23845.500	44704.767	21165.964	25058.921	0
63 FED GOVT	4969.700	740.55	200.337	1815.736	2067.876	1626.418	850.834	1617.615	0
64 STATE GOVT	215.096	94.326	32.789	494.862	1026.870	595.016	118.065	354.403	0
65 LOCAL GOVT	119.327	92.241	39.887	396.262	28.271	723.084	57.128	371.997	0
66 GROSS SAVING	2799.756	251.554	0	4755.027	478.298	632.513	1714.190	318.497	0
67 DEPRECIATION	352.059	2235.575	386.769	4157.962	7626.302	1005.562	1588.173	2134.985	0
68 IMPORTS	10987.750	12038.073	24185.052	53007.623	43795.333	20677.355	31582.531	23919.857	0
TOTAL	171849.979	61079.977	48459.990	147589.973	88430.003	93999.981	72939.977	68109.987	0

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	17	18	19	20	21	22	23	24
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	4,699	0
5 CR. PETEN. GAS	1934.322	0	0	0	0	0	0	0
6 N. GAS LIQ	1106.120	0	0	0	0	0	0	0
7 OIL & GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.253	15.344	17.976	1.084	1.288	0.091	49.571	0.060
9 MEAT PROD	0	1340.456	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING & FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	5.546	0	0	0	0	0	0
13 BEVERAGES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	23.187	15.252	43.648	27.017	1.542	4.797	31.022	2.489
15 WOOD & PAPER PROD	2101.013	2275.089	7602.254	3583.030	2688.194	2490.414	827.299	3023.246
16 PRINT & PUBS	56.534	34.207	62.208	36.881	89.171	7.474	44.457	4.608
17 CHEM & PET PRO	4150.022	6.777	28.101	260.105	58.063	14.747	39.360	199.524
18 PL & L & GL PRO	97.082	0	55.698	60.418	103.410	0	3.692	168.077
19 PL & ST & CE PRO	0	0	9019.506	230.865	0	0	1.342	4.579
20 METAL PROD	0	16.177	868.748	1099.804	2683.640	8.379	219.207	1633.600
21 MACH & EQUIP	58.590	0.581	194.703	1.058	373.994	14.759	794.746	3.839
22 ELECT PROD	1.517	0.904	2.931	6.339	0.439	32.489	4.048	107.439
23 TRANS EQUIP	0	0	0	0	571.702	0	1708.002	0
24 OTH MFGR	0	0	0	812.941	0	1.675	9.735	488.660
25 RR TRANSPOR	91.473	134.502	4483.026	80.557	2.522	139.663	1.007	0
26 L & INTER TRAN	56.092	9.244	0	0	0	0	0.335	0
27 L & DTRCK & STR	530.288	483.469	2069.516	836.028	1188.805	573.457	89.965	375.998
28 OTHER TRANS	79.392	0	17.360	244.619	0	2.234	111.114	0
29 TELE & TELEGR	515.618	132.191	454.266	226.936	552.365	171.506	409.537	161.665
30 RADIO & TV ARC	0	0	0	0	0	0	0	0
31 OTH COMM	0	0	0	0	0	9.217	5.035	0
32 GAS SERVICES	66.447	5.546	426.779	49.824	22.699	14.340	25.848	34.806
33 ELEC SER	603.639	44.371	506.348	339.296	67.259	57.370	257.475	63.200
34 WATER & SAN SER	21.260	55.464	9.060	80.491	3.362	18.440	31.890	20.608
35 WHL AUT PTES	0.241	0.070	27.202	0.181	0.184	0.071	8.673	3.552
36 WHL GROC	23.144	0.225	319.680	1.961	1.579	0.180	6.467	1.492
37 WHL FARM PROD	0.001	0	0	0.006	0.008	0.035	0.024	0.004
38 WHL MAC, EQ, S	11.809	27.871	912.171	54.158	64.437	2.584	299.604	2.823
39 WHL PET PROD	0.762	0	41.671	0.746	0	0	9.235	0
40 GEN WHL	248.174	162.625	5.821	288.074	16.593	50.864	331.121	26.678
41 LUMBER YARDS	0.834	0	0	0.007	0.008	1.450	2.561	5.025
42 FEQ, HT, P, W, E	0	0	0	1.300	1.391	1.479	6.449	16.826
43 DEPT & CLOTHST	0	0	0	1.302	0.546	0	1.527	0
44 FOOD STORES	0	0	0	0.006	0.008	0.035	0.162	0.004
45 AUT DLGRP, GS	147.690	7.005	166.296	24.265	22.027	6.303	23.036	10.973
46 FURN, HN F&EQ	0	0	24.478	0	0	2.244	0.283	1.743
47 EAT & DRINK PL	33.900	0	0	0	0	1.439	5.404	0
48 OTH RETAIL	1.247	0	0	4.868	6.250	24.918	17.191	3.404
49 BANK & CRE AGE	0.431	0	501.284	171.430	0	0	33.904	0
50 OTHER F. I. R. E.	538.486	144.671	1223.915	441.100	327.888	308.935	564.298	102.128
51 LEGAL SER	25.457	65.633	149.011	121.818	211.025	43.854	35.583	19.777
52 LODGING SER	30.203	9.706	25.317	0	3.362	0	70.159	54.957
53 PERSONAL SER	4.746	0	260.407	0.491	0	279.326	206.115	9.617
54 OTH BUS SER	752.068	107.694	444.862	349.245	385.899	1.396	861.722	173.114
55 AMUSEMENT	17.259	0	0	0	75.666	0	0	0.457
56 MISC REP	251.552	25.883	643.062	22.104	110.977	0.837	72.173	46.255
57 PHYS & DENTIST	0	0	17.360	0	0	0	18.463	6.869

58 HOSP&MED SER	0.431	0	0	0	0	0	0	1.678	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	62.742
60 COL&UNIV	0	0	0	0	0	0	0	4.028	0
61 OTH SERVICES	510.871	26.808	75.228	502.009	47.081	58.658	128.234	448.816	
62 HOUSEHOLDS	18543.340	5065.993	24887.118	41731.342	22167.783	9187.327	25092.428	16242.625	
63 FED GOVT	1807.036	151.678	1975.886	12111.665	2090.820	667.031	732.480	94.018	
64 STATE GOVT	48.757	19.151	1020.628	355.049	117.920	76.535	309.172	229.803	
65 LOCAL GOVT	373.661	34.852	274.494	210.757	356.355	26.536	145.019	191.858	
66 GROSS SAVING	877.124	124.146	1201.389	3126.346	2429.736	1234.350	2531.690	1119.247	
67 DEPRECIATION	1384.186	446.030	6425.557	2019.337	2523.900	399.157	2706.686	731.845	
68 IMPORTS	16034.222	12254.823	28845.010	20399.120	43120.075	4553.386	18146.018	6131.923	
TOTAL	53159.979	23249.979	95329.985	89919.980	82489.973	20489.982	57039.973	32029.973	

TRANSACTIONS TABLE : SOUTH CENTRAL ,TEXAS, 1967 (THOUSAND DOLLARS)

	25	26	27	28	29	30	31	32
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0	0
5 CR.PET&N.GAS	0	0	0	308.888	0	0	0	41284.616
6 N.GAS LIQ	0	0	553.060	1505.552	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	1936.801	328.237	1885.938	589.335	0	271.975	0	158.610
9 MEAT PROD	0	0	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	36.148	0	0	0	0	0	0	0
13 BEVERAGES	0	50.347	0	0	0	0	0	0
14 TEXTILE PROD	0	0	0	0	0	0	0	8.857
15 WOOD& PAPER PROD	0	0	0	116.220	0	0	0	0
16 PRNT&PUBS	30.051	0	0	46.636	182.156	0	0	44.104
17 CHEM&PET PRO	614.097	0	0	302.361	0	29.366	2.310	64.923
18 PLE&EGL PRO	0	0	0	4.142	0	0	0	0
19 CLEST&CE PRO	0	0	0	355.508	0	0	0	0
20 METAL PROD	537.879	0	0	0	0	0	0	0.182
21 MACH&EQUIP	118.246	0	0	793.350	0	0	0	0.365
22 ELECT PROD	69.684	0	0	251.801	0	145.253	36.301	0.091
23 TRANS EQUIP	83.839	0	0	67.773	0	19.323	1.319	0.639
24 OTH MFGR	0	0	0	182.421	0	218.008	0	0
25 RR TRANSPOR	1008.034	0	0	0	110.621	0	0	26.754
26 LGINTER TRAN	0	0	0	0	0	0	0	0
27 L&L&TRCK,STR	164.630	0	0	0	120.045	43.336	0	90.125
28 OTHER TRANS	232.573	0	0	0	72.070	0	0	0
29 TELEP&TELEG	0	336.005	1335.448	237.030	0	358.214	11.550	222.895
30 RADIO&TV BRC	226.911	0	0	0	0	0	18.480	50.130
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	25.914	89.247	224.963	219.690	107.195	10.732	0.659	630.972
33 ELEC SER	54.659	414.606	4184.965	394.975	872.767	228.715	12.803	87.660
34 WAT&SAN SER	70.120	64.183	80.360	1.386	103.982	43.183	2.587	22.554
35 WHL AUT P&S	31.358	622.404	1442.397	1697.916	0	0	0	0.821
36 WHL GROC	0	0	0	0	0	0	0	0
37 WHL FARM PRO	0	0	0	0	0	0	0	0
38 WHL MAC, EQ, S	0	0	0	32.128	0	0	0	1.643
39 WHL PET PROD	0	297.705	773.522	1929.223	0	0	0	16.710
40 GEN WHL	270.246	293.746	570.987	100.122	0	386.383	21.451	219.607
41 LUMBER YARDS	0	0	0	0	0	0	0	0
42 FEQ, HT, P, W, E	0	0	0	0	0	0	0	0.821
43 DEPT&CLOTHST	0	0	0	0	0	0	0	0
44 FOOD STORES	0	0	0	0	0	0	0	0
45 AUT DLGRP, GS	0	18.195	0	0	0	0	0	277.956
46 FURN, HN F&EQ	0	0	0	0	0	0	0	0
47 EAT&DRINK PL	0	16.525	0	0	0	0	0	0
48 OTH RETAIL	0	0	0	0	0	0	0	0
49 BANK&CRE AGE	92.114	1646.463	0	0	0	32.986	106.595	334.844
50 OTHER F. I. R. E.	500.206	591.372	18505.930	2302.859	1479.849	228.052	47.192	861.081
51 LEGAL SER	0	114.361	431.360	167.338	41.871	55.496	3.630	334.022
52 LODGING SER	0	15.696	0	0	0	0	0	0
53 PERSONAL SER	179.873	0	0	0	0	0	0	0
54 OTH BUS SER	162.670	501.924	120.391	3614.475	403.079	2258.600	0	243.714
55 AMUSEMENT	0	0	0	0	0	7.953	0	0
56 MISC REP	0	0	0	0	0	29.570	6.600	292.201
57 PHYS&DENTIST	0	0	0	0	0	0	0	0

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58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COLLEUNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	0	162.979	821.797	35.611	0	705.417	6.600	275.491	0
62 HOUSEHOLDS	10084.701	9936.867	35448.331	21664.053	35318.480	9255.758	262.060	20607.527	0
63 FED GOVT	1306.590	746.863	3791.334	3986.453	19234.289	2883.513	29.014	4926.518	0
64 STATE GOVT	38.108	278.740	880.842	386.571	2572.575	138.804	2.425	1372.890	0
65 LOCAL GOVT	412.664	540.034	2131.400	1154.862	4735.859	9.100	0	3416.567	0
66 GROSS SAVING	1813.978	1366.226	4231.531	3523.014	0	1683.055	12.002	3724.284	0
67 DEPRECIATION	1635.415	1546.653	3283.922	3879.821	17122.193	1723.138	0	7790.003	0
68 IMPORTS	38.979	15.606	998.514	877.459	24610.963	4726.158	202.514	3922.866	0
TOTAL	21776.488	19994.989	81696.992	50728.982	107087.994	25492.088	786.092	91312.983	0

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	33	34	35	36	37	38	39	40
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	26.676	0	0	0
5 CR. PET&N. GAS	0	0	0	0	0	0	0	0
6 N. GAS LIQ	0	0	0	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	163.738	1437.826	101.880	187.995	4958.660	197.308	0.448	10.814
9 MEAT PROD	0	0	0	44.553	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	0	0	0	0	0	0	0
13 BEVERAGES	0	0	50.391	341.063	5.475	429.174	33.930	548.379
14 TEXTILE PROD	16.670	24.758	4.142	34.401	51.607	8.288	2.738	42.559
15 WOOD& PAPER PROD	5.680	32.213	0.929	8.037	10.646	1.943	2.209	9.575
16 PRNT&PUBS	132.744	20.275	121.816	294.214	3.470	1320.353	0.396	1225.796
17 CHEM&PET PROD	200.165	465.467	0.839	97.541	1.331	40.654	37.128	169.377
18 PL&LE&GL PROD	1.975	30.413	0	0	0	0	0	0
19 CL&ST&CE PROD	25.931	963.086	0	0	0	0	0	0
20 MFTAL PROD	0.246	87.184	0	0	0	0	0	0
21 MACH&EQUIP	0.370	21.723	42.283	493.050	10.963	139.644	830.940	424.006
22 ELECT PROD	13.706	40.320	0.631	4.094	3.074	14.262	2.426	5.148
23 TRANS EQUIP	5.186	0	0	0	0	0	0	0
24 OTH MFR	0.617	19.405	0	0	0	0	0	0
25 RR TRANSPOR	243.631	0	0	8438.200	0	0	0	1353.144
26 L&INTER TRAN	0	0	0	0	0	0	0	0
27 L&LDTRCK, STR	146.821	0	702.709	15892.402	2924.632	171.654	0	4018.737
28 OTHER TRANS	27.650	0	30.235	204.638	3.285	542.347	20.358	432.463
29 TEL&P&TELEG	279.442	72.122	433.729	1260.732	1258.858	729.346	166.301	1773.670
30 RADIO&TV BRC	201.153	0	15.130	0	0	1119.797	0	204.072
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	20285.046	2403.515	72.221	199.872	90.224	353.481	10.729	945.899
33 ELEC SER	0	1819.002	166.129	1445.229	1058.210	1034.065	160.936	2966.073
34 WATESAN SER	234.864	0	53.323	245.996	169.111	535.138	5.364	1463.299
35 WHL AUT PT&S	51.986	0	2.316	8.935	0.121	132.634	3.401	17.021
36 WHL GROC	0	0	22.028	196.458	4.254	48.671	322.055	191.515
37 WHL FARM PROD	0	0	0.129	0.348	2131.693	0	0.066	0.467
38 WHL MAC, EQ, S	80.510	515.778	44.794	123.394	0.106	110.469	5.402	31.080
39 WHL PET PROD	45.688	29.013	2.044	0	0	0	0	35.052
40 GEN WHL	228.937	64.332	43.913	372.954	550.123	91.064	44.167	458.411
41 LUMBER YARDS	2.716	0	0	0	0	0	0	0
42 FEQ, HT, P, W, E	19.016	0	0	0	0	0	0	0
43 DEPT&CLOTHST	0	0	0	38.652	0	0	0	14.209
44 FOOD STORES	0	0	0.129	4.551	0	1.997	0.066	22.715
45 AUT OLERP, GS	1069.856	0	617.232	5326.527	90.704	4957.905	2508.326	7319.594
46 FURN, HN F&EQ	0	0	0	0	0	0	0	0
47 EAT&DRINK PL	0	0	1284.542	7701.224	123.645	9690.768	766.158	12382.410
48 OTH RETAIL	0	0	90.953	245.525	4.721	0	46.526	329.146
49 BAN&CRE AGE	380.574	0	1402.897	1337.606	1283.153	2805.696	0	2512.982
50 OTHER F. I. R. E.	715.707	180.741	284.109	7241.523	7380.512	668.629	992.443	4283.261
51 LEGAL SER	195.103	0	275.704	266.496	0.381	89.950	32.187	488.352
52 LODGING SER	0	0	423.643	0	0	0	0	0
53 PERSONAL SER	0	0	3.362	486.868	0	0	0	50.870
54 OTH BUS SER	129.163	0	518.650	1447.411	4627.325	4681.087	1092.614	4673.079
55 AMUSEMENT	0	0	0	0	0	0	0	0
56 MISC REP	108.788	0	44.549	1429.854	26.076	320.822	380.883	413.743
57 PHYS&DENTIST	0	0	0	0	0	4.497	0	0

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58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	104.219	0	82.375	1742.475	489.328	141.671	53.645	1166.620	
62 HOUSEHOLDS	60766.980	8705.141	37046.551	69885.101	52927.500	15283.660	14932.936	92266.917	
63 FED GOVT	4916.475	0	1090.025	4635.936	24.701	3121.510	497.711	4209.552	
64 STATE GOVT	501.834	0	410.382	1226.784	347.506	288.001	229.367	964.373	
65 LOCAL GOVT	4157.055	0	358.915	779.185	2939.999	237.219	189.532	1078.008	
66 GROSS SAVING	9331.480	0	5658.202	8100.935	7386.319	3587.892	4180.994	9724.222	
67 DEPRECIATION	16595.250	7964.795	405.150	5509.297	5385.279	2433.902	42.916	4189.999	
68 IMPORTS	2095.999	4067.877	4578.749	13472.741	1733.424	1664.904	293.465	7119.118	
TOTAL	123482.981	28964.987	56487.730	160772.797	98093.692	57000.402	28878.763	170035.727	

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	41	42	43	44	45	46	47	48
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGR	0	0	0	0	0	0	0	0
5 CR. PETCN. GAS	0	0	0	0	0	0	0	0
6 N. GAS LIO	0	0	0	0	0	0	0	0
7 OIL & GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.069	128.749	335.504	42.160	28.573	0.474	0.754	26.579
9 MEAT PROD	0	0	0	92.244	0	0	41.836	0
10 DAIRIES	0	0	0	0	0	0	2.530	0
11 MILLING & FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	0	0	0	0	0	0	0
13 BEVERAGES	7.777	71.635	200.499	4.564	128.515	42.531	38.343	283.134
14 TEXTILE PROD	0.711	1.904	106.436	176.413	6.930	6.644	35.626	26.709
15 WOOD & PAPER PROD	0.274	0.648	21.921	36.333	1.630	27.438	7.465	29.990
16 PRNTG & PUBS	139.642	647.004	3109.130	7469.827	630.859	1044.551	2.062	646.522
17 CHEM & PET PRO	1.951	1.498	1.918	11.598	3707.742	21.156	53.817	15.137
18 PL & LEGL PRO	0	0	0	0	0	0	0	0
19 CL & STCE PRO	0	0	0	0	0	0	0	0
20 METAL PROD	0	0	0	0	0	0	0	0
21 MACH & EQUIP	65.865	132.160	1394.798	6.958	111.835	117.376	75.983	232.439
22 ELCT PROD	0.234	10.210	519.448	10.486	29.101	1.036	2.826	2.452
23 TRANS. EQUIP	0	0	0	0	0	0	0	0
24 OTH MFG	0	0	0	0	0	0	0	0
25 RR TRANSPDR	314.243	0	23.719	8.299	0	0	1452.025	0
26 LG INTER TRAN	0	0	0	0	0	0	0	0
27 LG TRCK, STR	104.747	263.707	450.662	124.496	0	515.528	3346.328	2011.271
28 OTHER TRANS	4.666	42.981	120.299	2.738	77.109	25.518	23.006	169.880
29 TELE & TELEG	87.988	475.959	587.503	165.994	1184.884	425.311	418.291	2358.454
30 RADIO & TV BRC	0	0	393.101	0	73.595	644.411	0	742.254
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	6.284	380.693	1178.567	116.196	128.791	162.120	83.658	1515.172
33 ELEC SER	45.041	1214.615	3403.178	962.770	850.025	718.789	1087.556	4513.553
34 WATER & SAN SER	5.237	562.589	1787.739	165.994	89.314	205.996	83.658	2291.711
35 WHL AUT PTES	0.178	95.329	18.970	1.062	339.640	3.938	4.929	3.988
36 WHL GROC	2.577	51.295	1.610	2.706	43.606	45.112	696.422	89.463
37 WHL FARM PROD	0.054	0.100	0.009	0.009	0.270	0.100	0.343	0.007
38 WHL MAC, EQ, S	0.069	2.375	211.186	28.765	28.573	11.141	0.754	128.047
39 WHL PET PROD	0	0	17.749	0	0	0	0	0
40 GEN WHL	8.341	21.879	1134.752	1880.213	101.374	72.205	378.529	289.135
41 LUMBER YARDS	0	0	0	0	0	0	0	0
42 FEQ, HT, P, W, E	0	0	0	0	0	0	0	0
43 DEPT & CLOTHST	0	0	0	0	27.752	41.886	0	54.471
44 FOOD STORES	0.054	0.100	0.009	0.009	0.270	0.100	554.858	0.007
45 AUT DLGRP, GS	243.495	1043.221	2072.664	148.208	28979.345	854.875	962.306	3529.816
46 FURN, HN FFEQ	0	0	0	0	0	0	0	0
47 EAT & DRINK PL	175.616	1617.521	4527.272	103.074	2901.886	960.352	865.792	6393.172
48 OTH RETAIL	38.502	70.393	6.781	6.855	189.967	70.971	241.855	4.944
49 BANK & CRE AGE	655.720	533.846	167.128	149.395	3506.815	635.818	55.772	1328.875
50 OTHER F. I. R. F.	333.097	1765.552	3678.282	2033.437	2207.858	3200.574	9955.328	4657.050
51 LEGAL SER	0	77.182	38.315	132.795	242.864	25.776	195.202	107.746
52 LOGGING SER	0	0	0	0	0	0	0	0
53 PERSONAL SER	0	3.215	2.189	506.284	172.948	17.184	1701.050	0
54 OTH BUS SER	20.501	301.388	2025.594	9980.024	4515.300	1035.767	630.908	2518.176
55 AMUSEMENT	0	0	0	0	0	0	6413.797	0
56 MISC REP	81.703	244.411	670.337	1037.467	183.988	751.812	474.063	347.183
57 PHYS & DENTIST	0	0	0	0	0	0	0	0

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58 HOSP&MED SFR	0	0	0	0	0	0	0	0	0
59 ELFM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	38.756	102.910	94.511	1153.664	275.982	171.842	501.949	778.170	
62 HOUSEHOLDS	7153.087	23926.360	36590.404	39267.965	98741.371	20402.737	44030.088	57875.685	
63 FED GOVT	280.865	530.849	1996.713	9685.800	1639.953	428.328	5808.825	2314.408	
64 STATE GOVT	133.558	253.151	422.837	365.188	669.597	194.307	2682.668	885.982	
65 LOCAL GOVT	110.362	238.669	1598.825	1369.457	553.305	399.829	2216.758	893.982	
66 GROSS SAVING	1394.327	3155.100	2592.423	5558.950	15798.667	1893.886	2177.138	5910.346	
67 DEPRECIATION	346.714	723.587	2139.096	5096.042	1133.367	777.589	9202.404	5040.149	
68 IMPORTS	759.051	694.860	77460.315	4964.432	114690.618	1268.969	3545.603	2578.708	
TOTAL	12584.356	39387.645	151102.393	92869.871	283993.219	37223.977	100053.105	110594.770	

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	49	50	51	52	53	54	55	56
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0	0
5 CR.PET&N.GAS	0	0	0	0	0	0	0	0
6 N.GAS LIQ	0	0	0	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	1324.676	0	14.472	2492.729	1148.211	224.619	0.078	5.663
9 MEAT PROD	0	0	0	27.022	0	0	14.588	0
10 DAIRIES	0	0	0	3.377	0	0	1.475	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	0	0	0	0	0	9.988	0
13 BEVERAGES	0	86.022	0	26.924	61.482	337.228	0	6.056
14 TEXTILE PROD	223.537	208.905	1.951	38.875	264.174	91.379	13.236	25.072
15 WOOD& PAPER PROD	58.875	43.291	11.319	8.003	4.001	19.577	4.055	5.353
16 PRNT&PUBS	12.724	2207.791	62.232	2097.600	2435.835	3358.464	349.947	0.504
17 CHEM&PET PROD	0	0	22.808	0	3325.741	14.979	2.658	0.732
18 PL&LE&GGL PROD	0	0	0	0	0	0	0	0
19 CL&ST&CE PROD	0	0	0	0	506.206	0	0	0
20 METAL PROD	0	0	0	0	400.746	163.865	39.953	0
21 MACH&EQUIP	0	141.998	1.448	0	853.882	277.128	58.620	96.945
22 ELECT PROD	13.149	151.668	0.144	2.286	22.510	37.947	0.971	1.744
23 TRANS EQUIP	0	0	0	0	0	0	0	0
24 OTH MFR	0	0	0	0	1906.709	345.737	659.236	0
25 RR TRANSPOR	0	0	119.978	0	0	0	0	0
26 LG&INTER TRAN	0	0	0	0	3130.041	0	0	0
27 LG&TRCK, STR	0	0	0	0	0	201.680	0	88.099
28 OTHER TRANS	33.933	252.237	4.948	16.154	247.809	803.775	9.988	3.634
29 TELEP&TFLG	1540.485	1261.901	510.076	440.579	556.826	1289.311	309.641	242.274
30 RADIO&TV BRC	848.070	0	0	1794.264	527.298	3005.866	0	0
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	149.485	255.687	15.748	1513.253	251.733	1155.788	120.474	11.012
33 ELEC SER	586.888	1043.097	22.464	4872.345	462.069	3331.795	1256.306	93.606
34 WAT&SAN SER	138.945	172.639	6.754	2405.001	201.586	1795.109	371.195	11.012
35 WHL AUT PT&S	0	1359.593	0.038	0	1.697	305.188	0.243	0.067
36 WHL GROC	0	90.661	3.291	775.663	0.989	100.583	290.354	37.650
37 WHL FARM PROD	0	0	0.056	0	0.304	0.237	0.058	0.084
38 WHL MAC, EQ, S	0	32.336	0.059	158.104	18.990	148.934	0.078	3.547
39 WHL PET PROD	0	0	0	13.818	12.182	297.247	0	0
40 GEN WHL	2382.209	2228.881	20.342	414.640	205.500	976.929	141.730	268.482
41 LUMBER YARDS	0	5840.071	0	0	0	0.018	6.442	0
42 FEQ, HT, P, W, E	0	0	0	0	0	2.980	479.444	0
43 DEPT&CLOTHST	0	0	0	0	0	0	0	0
44 FOOD STORES	0	0	0.056	0	0.304	1.345	0.058	0.084
45 AUT DL&PP, GS	0	222.476	6.420	275.166	769.351	4137.506	152.783	287.481
46 FURN, HN FLEQ	0	0	0	0	0	1.523	8.450	0
47 EAT&DRINK PL	0	948.057	71.120	607.950	1388.285	7614.626	45.027	136.764
48 OTH RETAIL	0	0	39.738	0	214.289	167.331	41.257	59.126
49 BANK&CRE AGE	6661.300	14.634	112.399	0	236.229	1919.561	49.942	132.149
50 OTHER F. I. R. E.	3817.988	10631.215	417.078	2937.193	1265.515	1449.575	3505.940	192.718
51 LEGAL SER	673.649	2202.675	0	27.973	345.907	212.484	0	16.518
52 LODGING SER	0	901.035	4.123	769.264	0	0	0	0
53 PERSONAL SER	0	0	0	832.204	67.494	97.238	309.641	60.568
54 OTH BUS SER	5290.351	6445.857	56.945	5815.899	162.069	4590.224	629.271	15.965
55 AMUSEMENT	0	0	18.890	0	0	0	19.976	0
56 MISC REP	0	0	28.590	118.886	12.655	338.534	499.421	0
57 PHYS&DENTIST	0	274.843	0	0	0	0	0	0

58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	872.106	1699.509	249.754	503.518	185.608	599.637	529.387	181.706	
62 HOUSEHOLDS	164212.770	134115.229	28997.132	9876.004	52946.357	56351.648	11671.874	16081.350	
63 FED GOVT	13981.597	2990.095	2556.626	1245.985	495.089	3050.442	958.889	726.824	
64 STATE GOVT	1165.036	7485.385	63.425	209.135	217.491	1074.524	39.953	66.074	
65 LOCAL GOVT	3056.678	890.564	43.671	908.620	337.796	691.945	0	104.618	
66 GROSS SAVING	21029.224	12028.795	5002.569	227.827	4170.575	3577.936	54.548	833.849	
67 DEPRECIATION	5051.020	10916.291	184.739	1595.990	1037.722	4827.715	3895.489	132.149	
68 IMPORTS	23944.289	30745.552	702.475	3121.730	3680.720	18135.817	1085.313	12170.478	
TOTAL	257068.984	237988.990	39272.878	46173.981	84079.977	127125.974	27637.972	32099.977	

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TRANSACTIONS TABLE : SOUTH CENTRAL ,TEXAS, 1967 (THOUSAND DOLLARS)

	57	58	59	60	61
1 IRR CROPS	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0
5 CR. PETEN. GAS	0	0	0	0	0
6 N. GAS LTO	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0
8 CONSTRUCTION	745.216	291.850	1374.941	0	4.105
9 MEAT PROD	0	1021.149	4461.439	0	0
10 DAIRIES	0	327.235	5916.874	1.159	0
11 MILLING&FEED	0	0	0	125.260	0
12 FOOD PROCESS	17.533	654.488	7642.261	109.023	0
13 BEVERAGES	0	0	0	0	649.423
14 TEXTILE PROD	11.324	48.040	134.314	99.744	88.137
15 WOOD& PAPER PROD	29.138	9.891	657.328	2697.271	18.719
16 PRNT&PUBS	149.428	18.576	59.081	453.489	6847.672
17 CHEM&PET PRO	58.467	1301.453	0	585.709	0
18 PLELE&GL PRO	0	0	0	64.949	0
19 CLE&T&CF PRO	0	0	0	26.675	0
20 METAL PROD	0	0	0	305.032	0
21 MACH&EQUIP	3.656	0.156	7.811	925.536	372.390
22 ELECT PROD	0.693	2.826	7.935	1379.025	7.218
23 TRANS EQUIP	0	0	0	238.922	0
24 OTH M&GR	0	0	0	2758.051	0
25 RR TRANSPOR	0	0	0	106.703	0
26 LGINTER TRAN	0	0	19.615	0	0
27 L&LDRCK, STR	1.816	9.895	1400.558	157.735	0
28 OTHER TRANS	20.168	55.730	0	321.270	389.653
29 TELEP&TELEG	1277.429	1175.298	319.735	2308.041	1114.557
30 RADIO&TV BRC	0	0	0	266.758	0
31 OTH COMM	0	0	0	0	0
32 GAS SERVICES	54.963	119.021	651.239	509.160	1592.361
33 ELEC SER	768.401	467.917	2087.106	2254.690	4461.839
34 WAT&SAN SER	69.772	107.503	276.580	744.604	2442.923
35 WHL AUT PT&S	0.171	0.003	0	0	0
36 WHL GROC	4.370	669.112	175.876	0	1308.137
37 WHL FARM PROD	0.012	0	0.039	0	2.811
38 WHL MAC, EQ, S	6.986	206.301	590.717	0	68.647
39 WHL PET PROD	0	0	0	0	0
40 GEN WHL	120.673	512.416	1432.468	0	922.162
41 LUMBER YARDS	0	0	0	0	0
42 FEQ, HT, P, W, E	0	0	0	0	0
43 DEPT&CLOTHST	0	0	0	0	0
44 FOOD STORES	0.794	2.430	0.039	0	2.811
45 AUT DL&RP, GS	22.114	0.631	17.740	0	7482.799
46 FURN, HN F&EQ	0	0	0	0	0
47 EAT&DRINK PL	53.241	53.685	0	0	14663.972
48 OTH RETAIL	8.517	0	27.544	0	1977.976
49 BANK&CRE AGE	447.340	2119.924	0	102.064	3100.898
50 OTHER F.I.R.E.	1439.413	641.699	717.933	12484.302	1291.121
51 LEGAL SER	224.397	34.166	0	375.781	264.845
52 LODGING SER	8.721	0	0	0	0
53 PERSONAL SER	442.707	2*65.958	82.385	125.260	441.409
54 OTH BUS SER	30.343	136.200	151.040	2918.107	4183.769
55 AMUSEMENT	0	0	0	157.735	0
56 MISC REP	247.745	254.943	0	0	264.845
57 PHYS&DENTIST	94.937	2454.870	0	0	0

58 HDSP&MED SER	952.461	367.525	0	0	0
59 ELP&SEC SCH	0	0	37.269	0	0
60 COL&UNIV	0	0	0	0	1555.966
61 OTH SFRVICES	581.252	304.886	0	147.297	5407.260
62 HOUSEHOLDS	65627.526	52104.437	134279.002	72028.302	75286.151
63 FED GOVT	1326.578	4083.656	1477.059	1210.852	3575.413
64 STATE GOVT	61.504	234.789	0	0	121.387
65 LOCAL GOVT	245.383	665.975	0	98.584	77.246
66 GROSS SAVING	3620.560	616.319	0	0	2766.005
67 DEPRECIATION	1810.077	3235.757	18558.376	2880.992	1576.037
68 IMPORTS	10263.153	16588.955	13592.279	7013.902	13819.414
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TOTAL	90848.979	93465.675	196156.583	115981.984	158152.078
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TRANSACTIONS TABLE : SOUTH CENTRAL TEXAS, 1967 (THOUSAND DOLLARS)

	HOUSEHOLDS	FED GOV DEF	FED GOV NON DEF	STATE GOV	LOCAL GOV	INVESTMENTS
1 IRR CROPS	11512.282	0	5940.000	0	0	0
2 DRYLAND CROP	4370.571	0	25870.000	0	0	0
3 LIVESTOCK	11541.325	0	15150.000	0	0	0
4 OTHER AGRI	20426.609	0	0	109.400	0	0
5 CR. PETEN. GAS	0	0	0	0	0	0
6 N. GAS LIQ	1505.553	0	0	0	0	0
7 OIL & GAS FLSV	0	0	0	0	0	0
8 CONSTRUCTION	81349.500	56630.000	2137.000	55365.600	30743.000	182509.640
9 MEAT PROD	77398.232	0	2237.823	568.864	37.924	0
10 DAIRIES	50430.673	1290.501	9.304	160.400	0	0
11 MILLING & FEED	1762.546	0	0	28.700	0	0
12 FOOD PROCESS	87726.972	705.700	0	61.602	4.106	0
13 BEVERAGES	44923.497	0	200.964	0	0	0
14 TEXTILE PROD	350.601	0	0	191.700	0	0
15 WOOD & PAPER PROD	1114.303	853.600	125.300	1272.600	0	0
16 PRINT & PUBS	27985.368	0	4.254	192.400	12.100	0
17 CHEM & PET PROD	2393.007	4914.369	1761.000	1088.700	0	0
18 PL & L & G L PRO	562.566	161.000	8.900	852.500	122.700	0
19 CL & ST & CE PRO	2305.043	152.900	0	617.800	476.700	25552.539
20 METAL PROD	1653.021	1189.182	64.745	247.888	0	4879.539
21 MACH & EQUIP	2607.011	3976.600	1627.900	1324.600	0	14947.123
22 ELECT PROD	451.139	783.665	75.022	361.925	0	5927.771
23 TRANS EQUIP	891.740	2080.700	0	6.900	0	18905.632
24 OTH MFG	1727.249	39.791	6.644	4.984	0	2340.578
25 RR TRANSPOR	767.707	1204.000	261.000	1.400	0	0
26 LG INTER TRAN	8912.811	5935.000	1119.000	770.000	0	0
27 LG LD TRCK, STR	26341.549	3179.000	519.000	23.600	0	0
28 OTHER TPANS	21884.247	2666.000	571.000	4.000	0	0
29 TELEP & TELEG	51065.743	8770.200	1355.900	3421.800	917.500	7281.238
30 RADIO & TV RRC	1068.029	0	34.261	0	0	0
31 OTH COMM	726.768	0	0	0	0	0
32 GAS SERVICES	22760.424	7280.200	112.500	254.300	2565.895	0
33 ELEC SER	59004.793	3383.309	645.100	1366.300	391.700	0
34 WATER & SAN SER	7986.317	1832.770	104.800	249.700	56.000	0
35 WHL AUT PTGS	1958.476	0	0	0	0	0
36 WHL GROC	130516.989	0	0	5659.302	1379.603	0
37 WHL FARM PROD	2660.885	0	0	0	0	0
38 WHL MAC, EQ, S	0	0	0	118.901	0	0
39 WHL PET PROD	11537.281	3542.600	54.700	59.700	0	0
40 GEN WHL	33753.390	1856.200	286.900	308.900	1004.800	0
41 LUMBER YARDS	2754.870	0	0	0	0	0
42 FEQ, HT, P, W, E	14289.488	0	0	0	0	0
43 DEPT & CLOTHST	125847.378	0	0	0	0	0
44 FOOD STORES	92261.400	0	0	0	0	0
45 AUT OLCRP, GS	166342.841	0	0	0	699.000	0
46 FURN, HN & EQ	37030.461	0	0	0	0	0
47 EAT & DRINK PL	24907.165	0	0	0	0	0
48 OTH RETAIL	105651.085	0	0	6.000	0	0
49 BANK & CRE AGE	178940.040	0	0	0	5682.600	0
50 OTHER F. I. R. E.	91553.890	808.076	22.795	36.969	0	0
51 LEGAL SER	27975.318	54.944	109.889	182.184	364.367	0
52 LODGING SER	5137.726	0	0	0	0	0
53 PERSONAL SER	72888.552	553.900	82.400	0.100	0	0
54 OTH BUS SER	7658.238	1398.568	203.316	209.477	462.082	0
55 AMUSEMENT	20760.640	0	0	0	0	0
56 MISC REP	17115.259	489.100	75.400	80.100	0	0
57 PHYS & DENTIST	86708.411	0	0	0	0	0

58 HOSP&MED SER	91887.245	189.800	29.200	31.200	0	0
59 ELEM&SEC SCH	162669.629	0	33377.400	0	0	0
60 COL&UNIV	75446.805	0	5080.200	0	0	0
61 OTH SERVICES	52189.412	204.400	31.400	33.400	0	0
62 HOUSEHOLDS	115897.003	488736.700	352218.400	248784.400	41206.400	53469.375
63 FED GOVT	439980.891	0	0	1022.400	0	0
64 STATE GOVT	113030.862	0	157773.900	0	0	0
65 LOCAL GOVT	42228.921	0	1800.200	2582.166	0	0
66 GROSS SAVING	220947.837	-390665.115	-353175.552	-40808.700	-34355.000	0
67 DEPRECIATION	0	0	0	0	0	0
68 IMPORTS	677850.430	111721.525	36645.683	50107.004	63771.823	74361.193
TOTAL	3885886.004	325918.185	294557.648	316961.166	115633.300	390174.639

TRANSACTIONS TABLE : SOUTH CENTRAL , TEXAS, 1967 (THOUSAND DOLLARS)

	EXPORTS	NET INV CHANGE	TOTAL FINAL DEMAND	TOTAL
1 IRR CROPS	7254.656	20.057	24726.995	34799.986
2 DRYLAND CROP	33241.016	-9070.000	54411.587	92909.987
3 LIVESTOCK	79787.306	-5400.000	101078.631	240799.979
4 OTHER AGRI	30141.550	-870.000	49807.550	10450.983
5 CR. PETEN. GAS	181467.769	0	181467.769	232844.981
6 N. GAS LIQ	23996.658	0	25502.211	30746.979
7 OIL GAS FLSV	12503.637	-39.998	12463.639	52799.979
8 CONSTRUCTION	182249.900	0	590984.640	843979.070
9 MEAT PROD	83611.239	155.100	164009.182	171849.979
10 DAIRIES	953.798	55.100	52899.766	61079.977
11 MILLING FEED	8140.890	0	7932.136	48459.990
12 FOOD PROCESS	36948.633	10.600	125457.613	147589.973
13 BEVERAGES	39902.635	0	85027.096	88430.003
14 TEXTILE PROD	83149.785	3070.800	86762.886	93999.981
15 WOOD & PAPER PROD	18840.805	-6365.800	15840.808	72939.977
16 PRNT & PUBS	2221.405	-23.900	30391.627	68109.987
17 CHEM & PET PRO	9382.855	2785.600	22325.531	53159.979
18 PL & CHEM PRD	20676.768	-807.900	21576.534	23249.979
19 CL & STCE PRD	31277.755	69.300	60452.037	95329.985
20 METAL PROD	26660.479	160.000	34853.854	89919.980
21 MACH & EQUIP	42657.218	4243.100	71383.552	82489.973
22 ELECT PROD	8466.216	1134.400	17200.138	20489.982
23 TRANS EQUIP	30572.441	208.300	52665.713	57039.973
24 OTH MFR	18903.433	383.100	23405.779	32029.973
25 RR TRANSPOR	0	0	2234.107	21776.488
26 LG INTFR TRAN	0	0	16736.811	19994.989
27 LG LD TRCK, STR	0	0	30063.149	81696.992
28 OTHER TRANS	20863.000	0	45988.247	50728.982
29 TELE & TELEG	0	0	72812.381	107087.994
30 RADIO & TV BRC	14107.588	0	15209.878	25492.088
31 OTH COMM	0	0	726.768	786.092
32 GAS SERVICES	19459.572	-54.800	52378.091	91312.983
33 ELEC SER	0	0	64791.192	123482.981
34 WATER SAN SER	0	0	10229.587	28964.987
35 WHL AUT PTES	47497.998	0	46456.474	56487.730
36 WHL GROC	15422.336	0	152978.230	160772.797
37 WHL FARM PRO	77406.700	0	80067.585	98093.692
38 WHL MAC, EQ, S	50011.851	0	50130.752	57000.402
39 WHL PET PROD	5796.245	0	20990.526	28878.763
40 GEN WHL	57996.908	0	95207.098	170035.727
41 LUMBER YARDS	935.392	0	3690.262	12584.356
42 EQ, HT, P, W, E	0	0	14289.488	39387.645
43 DEPT & CLOTHST	24867.000	0	150714.378	151102.393
44 FOOD STORES	0	0	92261.400	92868.871
45 AUT DLERP, GS	29945.000	0	196986.841	283993.219
46 FURN, HN & F&FQ	0	0	37030.461	37223.977
47 EAT & DRINK PL	0	0	24907.165	100053.105
48 OTH RETAIL	442.760	0	106099.845	110594.770
49 BANK & CRE AGE	18783.000	0	203405.640	257068.984
50 OTHER F. I. R. E.	0	0	92421.730	237988.980
51 LEGAL SER	231.344	0	28919.046	39272.878
52 LODGING SER	38511.215	0	43648.941	46173.981
53 PERSONAL SER	0	129.600	73654.552	84079.977
54 OTH BUS SER	20873.781	71.900	30877.362	127125.974
55 AMUSEMENT	0	0	20760.640	27637.972
56 MISC REP	0	-210.500	17549.359	32099.977
57 PHYS & DENTIST	0	0	86708.411	90848.979

58 HOSPEMED SER	0	0	92137.445	93465.675
59 ELFM&SEC SCH	0	0	196047.029	196156.583
60 COL&UNIV	33895.000	0	114422.005	115981.984
61 OTH SERVICES	75810.864	0	128269.476	158152.079
62 HOUSEHOLDS	74063.589	0	1374465.878	3885886.004
63 FED GOVT	0	0	441003.291	620475.805
64 STATE GOVT	0	0	270804.762	316961.140
65 LOCAL GOVT	0	0	46611.287	115633.272
66 GROSS SAVING	576422.858	10345.941	-81287.731	121119.337
67 DEPRECIATION	0	0	0	268955.277
68 IMPORTS	0	0	994457.658	2146352.606

TOTAL	2146352.838	0.000	7475483.780	13775441.460

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APPENDIX B

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL , TEXAS, 1967

	1	2	3	4	5	6	7	8
1 IRR CROPS	0.00239193	0	0.00344454	0.01962004	0	0	0	0
2 DRYLAND CROP	0	0.01919494	0.05796736	0.03495687	0.00006905	0	0	0
3 LIVESTOCK	0	0	0.07689848	0	0	0	0	0
4 OTHER AGRI	0.00965417	0.03279181	0.01893113	0.11042001	0	0	0	0
5 CR. PETEN. GAS	0	0	0	0	0.00384300	0.22592535	0.00015261	0
6 N. GAS LIQ	0	0	0	0	0	0	0	0.00243917
7 OILEGAS FLSV	0	0	0	0	0.15103901	0.02604581	0.08270560	0
8 CONSTRUCTION	0.00974638	0.00704452	0.00793023	0.02535736	0.01072724	0.02400851	0.00572443	0.26454266
9 MEAT PROD	0	0	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0.00000206
11 MILLING&FEED	0	0	0.03168962	0.24694705	0	0	0	0
12 FOOD PROCESS	0	0	0.04051879	0.00575170	0	0	0	0
13 BEVERAGES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	0	0	0	0	0.00002356	0.00000107	0.00001400	0.00521013
15 WOOD& PAPER PROD	0.00065991	0.00051383	0.01257047	0.01310946	0.00000530	0.00000068	0.00000564	0.01099203
16 PRNT&PUBS	0	0	0.00003399	0	0.00030255	0.00000026	0.00000629	0.00088572
17 CHEM&PET PRO	0.06833431	0.09145728	0.00690832	0.01463647	0	0.00283003	0.00046203	0.00002440
18 PL&LE&GL PRO	0	0	0.00126078	0	0	0	0	0
19 CLEST&CE PRO	0	0	0	0	0	0	0	0.02813371
20 METAL PROD	0	0	0.00359571	0.00092832	0	0	0	0.05372362
21 MACH&EQUIP	0	0	0	0	0.00028966	0.00024207	0.00139091	0.00041136
22 ELCT PROD	0.00000575	0.00000481	0.00002594	0.00000924	0.00000293	0.00000273	0.00013879	0.00037255
23 TRANS EQUIP	0	0	0	0	0	0	0	0.00154684
24 OTH MFR	0	0	0.00007871	0.00069624	0	0	0	0.00123389
25 RR TRANSPOR	0	0	0	0	0	0	0	0
26 LEINTER TRAN	0	0	0	0	0	0	0	0
27 L&LDRCK, STR	0	0	0.00333631	0.01996714	0.00032500	0.00396898	0.00027998	0.00086283
28 OTHER TRANS	0	0	0	0	0	0	0	0
29 TELEP&TELEG	0.00276655	0.00209385	0.00205724	0.00366604	0.00134700	0.00479901	0.00362489	0.00130095
30 RADIO&TV BRC	0	0	0	0	0	0	0	0.00017882
31 OTH COMM	0	0	0	0	0	0	0	0.00003576
32 GAS SERVICES	0.02766570	0	0.00007603	0.00311152	0.00002300	0	0.00074496	0.00010729
33 ELEC SER	0.02034581	0.00209385	0.00378801	0.01275210	0.00021503	0.00203997	0.00070898	0.00039789
34 WATER&SAN SER	0	0	0	0.00003295	0.00000600	0	0.00043998	0.00088519
35 WHL AUT PT&S	0.00125647	0.00261371	0.00050805	0.00101560	0	0.00002517	0.00131299	0.00017823
36 WHL GROC	0	0	0	0	0.00011434	0.00009383	0.00053595	0.00015949
37 WHL FARM PROD	0.01291929	0.00601083	0.03102102	0.06758370	0.00090209	0.00000003	0.00000104	0.00000009
38 WHL MAC, EQ, S	0.00000575	0.00000491	0.00077549	0.00000924	0.00011136	0.00144339	0.01620912	0.00189535
39 WHL PET PROD	0.00486167	0.01374127	0.00414848	0.00453276	0	0	0.00262648	0.00139917
40 GEN WHL	0.02497694	0.02977497	0.01740832	0.01329533	0.00023873	0.00002072	0.00020439	0.0553753
41 LUMBER YARDS	0.00025359	0.00027021	0.00368783	0.00070650	0	0	0.00000302	0.00238401
42 FEQ, HT, P, W, E	0.05818158	0.07703972	0.02598435	0.08259602	0	0	0.00000364	0.00020273
43 DEPT&CLOTHST	0	0	0	0	0	0	0.00001852	0
44 FOOD STORES	0	0	0	0	0.00000299	0.00000003	0.00000104	0.00000009
45 AUT DLGRP, GS	0.01994236	0.04221660	0.01583318	0.01529883	0.00065783	0.00258321	0.00655070	0.00111460
46 FURN, HN FEFO	0	0	0	0	0	0	0	0.00018343
47 EATE&DRINK PL	0	0	0	0	0	0	0	0
48 OTH RETAIL	0	0	0	0	0.00147234	0.00003301	0.00073841	0.00006278
49 BANK&CRE AGE	0.02266570	0.01054151	0.01361583	0.01158656	0.00634000	0.00002199	0.01537455	0.01026011
50 OTHER F. I. R. E.	0.02017291	0.01458484	0.02775045	0.02904601	0.00718100	0.00000397	0.00055597	0.01157447
51 LEGAL SER	0	0	0	0	0.00049300	0	0.00048697	0.00127413
52 LODGING SEP	0	0	0	0	0	0	0	0
53 PERSONAL SER	0	0	0	0	0	0	0.00099097	0
54 OTH BUS SER	0.00069164	0.00049338	0.00344817	0.00298418	0.00138300	0.00156900	0.00678180	0.00509652
55 AMUSEMENT	0	0	0	0	0	0	0	0
56 MISC REP	0.00573486	0.00064981	0.00064400	0.00297802	0.00004100	0	0.00168095	0.00226661
57 PHYS&DENTIST	0	0	0	0	0	0.00001298	0.00225093	0.00009941

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58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SFC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	0	0	0	0.00177757	0.00080100	0.00000797	0.00243392	0.00580288	
62 HOUSEHOLDS	0.40612315	0.38803101	0.26109750	0.15172624	0.42884141	0.23912151	0.45099126	0.20487275	
63 FED GOVT	0.02812679	0.00908544	0.00762969	0.00595913	0.01592400	0.18344329	0.01617753	0.01858890	
64 STATE GOVT	0.00069164	0.00049338	0.00050089	0.00134935	0.05498300	0.00024399	0.00441387	0.00199390	
65 LOCAL GOVT	0.04720462	0.03445246	0.03394007	0.05060485	0.03815900	0.01316201	0.00106996	0.00128754	
66 GROSS SAVING	0.01136980	0.04907376	0.04001344	-0.10469293	0.03894764	0.05273608	0.02788798	0.00791608	
67 DEPRECIATION	0.08357351	0.07744405	0.07887299	0.08302013	0.09510400	0.06582110	0.03470999	0.01073399	
68 INPRTS	0.10967723	0.08833332	0.16200914	0.06666048	0.14098487	0.14979224	0.30960196	0.28183830	
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL ,TEXAS, 1967

	9	10	11	12	13	14	15	15
1 IPR CROPS	0.00012687	0	0.07300441	0.02325900	0.00045364	0	0	0
2 DRYLAND CROP	0	0	0.16173740	0.06090608	0.00620490	0.01079407	0.00766418	0
3 LIVESTOCK	0.60565117	0	0	0	0	0.18216042	0	0
4 OTHER AGRI	0.06172853	0.45952087	0	0.00013595	0	0	0	0
5 CR. PETEN. GAS	0	0	0	0	0	0	0	0
6 N. GAS LIQ	0.00012479	0	0	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.00001997	0.00001726	0.00000429	0.00000013	0.00000018	0.00000510	0.00028366	0.00005623
9 MEAT PROD	0.00460560	0	0	0.00004102	0	0	0	0
10 DAIRIES	0	0.03137513	0	0.00000495	0.00009862	0	0	0
11 MILLING&FEED	0	0	0.08118615	0.00037815	0	0	0	0
12 FOOD PROCESS	0.00001733	0	0	0.01959832	0.00432747	0	0	0
13 BEVERAGES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	0.00003289	0.00002336	0.01643288	0.00000499	0.00001105	0.00063583	0.00011238	0.00010926
15 WOOD& PAPER PROD	0.00523005	0.00000493	0.00000095	0.01545493	0.00157765	0.00398122	0.08135425	0.07772681
16 PRNT&PUBS	0.00000022	0.00010648	0	0.00186599	0.00000032	0.00076265	0.00073119	0.01445254
17 CHEM&PET PROD	0.00052226	0.00002119	0.00056236	0.00063780	0.00013165	0.00000609	0.00091586	0.00550849
18 PL&LFG L PRO	0.00024958	0	0	0.00252102	0.00285453	0	0.00154556	0
19 CL&ST&CE PRO	0	0	0	0	0	0	0	0
20 METAL PROD	0	0.00005305	0	0	0	0.00503859	0.00073100	0.00092749
21 MACH&EQUIP	0.00006321	0.00006338	0.00001329	0.00002906	0.01259188	0.00019104	0.00148107	0.00226306
22 ELECT PROD	0.00001020	0.00012700	0.00000619	0.00000045	0.00001605	0.00000113	0.00000901	0.00000812
23 TRANS EQUIP	0	0	0	0.00252102	0	0	0	0
24 OTH MFR	0	0	0	0	0	0	0.00040727	0.00081437
25 RR TRANSPOR	0	0	0	0	0	0	0.01925261	0
26 LG INTR TRAN	0	0.00000530	0	0	0	0.00045250	0	0
27 LG INTRCK, STR	0.01017736	0.00007477	0	0.01786142	0.00015984	0.00355396	0.03754268	0.01686825
28 OTHER TRANS	0	0.00029714	0	0	0.00055419	0	0	0.00036194
29 TELEP&TELEG	0.00128257	0.00135833	0.00281600	0.00379413	0.00180406	0.00199814	0.00595252	0.00003245
30 RADIO&TV BRC	0	0	0	0	0	0	0	0
31 OTH COMM	0	0	0	0	0	0	0	0.00021868
32 GAS SERVICES	0.00053034	0.00176159	0.00150623	0.00114706	0.00229990	0.00468268	0.00035506	0.00121260
33 ELFC SFR	0.00159454	0.00487621	0.00234740	0.00267228	0.00439999	0.02035773	0.00202594	0.00343180
34 WATER&SAN SER	0.00017332	0.00036981	0.00120204	0.00027731	0.00319993	0.00131176	0.00059524	0.00129996
35 WHL AUT PTES	0.00008127	0.00122698	0.00007338	0.00000069	0.00011261	0.00000959	0.00001693	0.00000737
36 WHL GROF	0.00002453	0.00010799	0	0.00111383	0.02082865	0.00002478	0.00016117	0.00027610
37 WHL FARM PROD	0.00014894	0.00000005	0	0.00037297	0.00000005	0	0.00000003	0.00000206
38 WHL MAC, EQ, S	0.00031001	0.00089571	0.00000524	0.00000013	0.00000474	0.00025729	0.00001455	0.00081006
39 WHL PET PROD	0.00013436	0.00107507	0	0.00009579	0.00008504	0	0	0
40 GEN WHL	0.00031810	0.00025180	0.00001378	0.00006053	0.00015857	0.00000486	0.00120655	0.00114964
41 LUMBER YARDS	0	0	0	0	0	0	0.00039741	0
42 FEQ, HT, P, W, E	0	0	0	0	0	0	0	0
43 DEPT&CLOTHST	0	0	0.00045774	0	0.00204098	0	0	0.00005932
44 FOOD STORES	0.00000003	0.00000005	0	0.00000007	0.00000005	0	0.00000003	0.00020301
45 AUT DLERP, GS	0.00016061	0.00030059	0.00415774	0.00012181	0.00556423	0.00019023	0.00231116	0.00077641
46 FURN, HN FEEQ	0	0	0	0	0	0	0	0
47 EAT&OPINK PL	0	0.00020501	0	0	0	0	0	0
48 OTH RETAIL	0.00002577	0.00004381	0	0.00005206	0.00003772	0	0.00002155	0.00144813
49 BANKE&CR AGE	0	0	0	0.00026471	0	0.00762652	0.01484998	0
50 OTHER F. I. R. E.	0.00420821	0.00544394	0.02441315	0.00136135	0.00079926	0.00416408	0.00833352	0.00235245
51 LEGAL SER	0.00009359	0.00020693	0.00046948	0.00094454	0.00068508	0.00042709	0.00578543	0.00109338
52 LODGING SER	0	0.00006367	0	0.00006302	0	0	0	0.00297294
53 PERSONAL SER	0.00013866	0.00152281	0	0.00056723	0	0	0.00003133	0.01851209
54 OTH BUS SER	0.00058929	0.02344721	0.00140844	0.02111353	0.03451700	0.00389461	0.00539904	0.03613441
55 AMUSMENT	0	0	0	0	0	0	0.00001043	0.00242051
56 MISC REP	0.00127910	0.00383623	0.01267604	0.00141177	0.00038821	0.00203373	0.00610916	0.00103305
57 PHYS&DENTIST	0	0.00006367	0	0.00723532	0	0	0.00003133	0

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58 HOSP&MED SER	0	0.00010090	0	0	0	0	0	0	0
59 ELEMSEC SCH	0	0	0	0	0	0	0.00010168	0	0
60 COLLEUNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	0.00088393	0.00611251	0.00728638	0.00001260	0.00267183	0.00047284	0.01184238	0.01000633	0.01000633
62 HOUSEHOLDS	0.18631942	0.20206214	0.09953058	0.37432178	0.26965395	0.47558272	0.29018331	0.36791845	0.36791845
63 FED GOVT	0.02891883	0.01212599	0.00413407	0.01230257	0.02338433	0.01730232	0.01166485	0.02375004	0.02375004
64 STAT GOVT	0.00125165	0.00154430	0.00067660	0.00335295	0.01161224	0.00632996	0.00161866	0.00520339	0.00520339
65 LOCAL GOVT	0.00069437	0.00151017	0.00082309	0.00268488	0.00031970	0.00769238	0.00078322	0.00546171	0.00546171
66 GROSS SAVING	0.01629186	0.00411844	0	0.03221782	0.00540878	0.00672886	0.02350138	0.00467622	0.00467622
67 DEPRECIATION	0.00204864	0.03660078	0.00798120	0.02817239	0.08624111	0.01069747	0.02177370	0.03134614	0.03134614
68 IMPORTS	0.06393804	0.19708706	0.49907258	0.35915464	0.49525423	0.21997191	0.43299343	0.35119456	0.35119456
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL TEXAS, 1967

	17	18	19	20	21	22	23	24
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0.00008238	0
5 CR. PETEN. GAS	0.03638681	0	0	0	0	0	0	0
6 N. GAS LIO	0.02080738	0	0	0	0	0	0	0
7 OIL GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.00000476	0.00065996	0.00018857	0.00001206	0.00001561	0.00000444	0.00086906	0.00000187
9 MEAT PROD	0	0.05765407	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	0.00023854	0	0	0	0	0	0
13 BEVERAGES	0	0	0	0	0	0	0	0
14 TEXTILE PROD	0.00043617	0.00065600	0.00045786	0.00030046	0.00001869	0.00023411	0.00054386	0.00007771
15 WOOD& PAPER PROD	0.03952246	0.09785334	0.07974683	0.03984687	0.03258813	0.12154301	0.01450385	0.09438803
16 PRNTP&PUBS	0.00106347	0.00147110	0.00065255	0.00041015	0.00108099	0.00036476	0.00077940	0.00014387
17 CHEMPET PROD	0.07806666	0.00029148	0.00029478	0.00289263	0.00070388	0.00071972	0.00069004	0.00622929
18 PLGL&GL PROD	0.00182622	0	0.00058427	0.00067191	0.00125361	0	0.00006473	0.00524749
19 CL&ST&CE PROD	0	0	0.07461353	0.00256745	0	0	0.00002353	0.00014296
20 METAL PROD	0	0.00069579	0.00911306	0.01223092	0.03253292	0.00040893	0.00384304	0.05100223
21 MACH&EQUIP	0.00110214	0.00002499	0.00204241	0.00005625	0.00453381	0.00072030	0.01393314	0.00011986
22 ELECT PROD	0.00002854	0.00003888	0.00003075	0.00007050	0.00000532	0.00158560	0.00007097	0.00335433
23 TRANS EQUIP	0	0	0	0	0.00693056	0	0.02994395	0
24 OTH MFR	0	0	0	0.00904072	0	0.00008175	0.00017067	0.01525634
25 PR TRANSPOR	0.00172071	0.00578504	0.04702640	0.00089587	0.00003057	0.00681616	0.00001765	0
26 LGINTER TRAN	0.00105515	0.00039759	0	0	0	0	0.00000587	0
27 L&LDT&CK, STR	0.00997532	0.02079438	0.02170897	0.00929747	0.01441151	0.02798719	0.00157723	0.01173894
28 OTHER TRANS	0.00149345	0	0.00018210	0.00272041	0	0.00010903	0.00194800	0
29 TELF&PT&LEG	0.00969936	0.00568564	0.00476520	0.00252376	0.00669615	0.00000024	0.00716229	0.00504730
30 RADIO&TV RRC	0	0	0	0	0	0	0	0
31 OTH COMM	0	0	0	0	0	0.00044983	0.00008827	0
32 GAS SERVICES	0.00124994	0.00023854	0.00447686	0.00055409	0.00027517	0.00069985	0.00045316	0.00108667
33 ELFC SER	0.01135514	0.00190843	0.00531153	0.00377331	0.00081536	0.00279990	0.00451394	0.00197315
34 WATER&SAN SER	0.00039992	0.00238555	0.00069504	0.00089514	0.00004076	0.00089995	0.00055908	0.00064340
35 WHL AUT PTES	0.00000453	0.00000301	0.00028535	0.00000001	0.00000223	0.00000347	0.00015205	0.00011090
36 WHL GRAC	0.00043537	0.00000968	0.00335340	0.00002181	0.00001914	0.00000878	0.00011338	0.00004658
37 WHL FARM PROD	0.00000002	0	0	0.00000007	0.00000010	0.00000171	0.00000042	0.00000012
38 WHL MAC, EQ, S	0.00022214	0.00119875	0.00956856	0.00066229	0.00078115	0.00012611	0.00525253	0.00008814
39 WHL PET PROD	0.00000493	0	0.00043712	0.00000830	0	0	0.00016190	0
40 GEN WHL	0.00466840	0.00699463	0.00006106	0.00320367	0.00020115	0.00248238	0.00580507	0.00083291
41 LUMBER YARDS	0.00001569	0	0	0.00000008	0.00000010	0.00007077	0.00004490	0.00015688
42 FEQ, HT, P, W, E	0	0	0	0.00001446	0.00001686	0.00007218	0.00011306	0.00052532
43 DEPT&CLINTHST	0	0	0	0.00001448	0.00000662	0	0.00002677	0
44 FOOD STORES	0	0	0	0.00000007	0.00000010	0.00000171	0.00000264	0.00000012
45 AUT DR&PP, GS	0.00277822	0.00030129	0.00174442	0.00026985	0.00026703	0.00030761	0.00040386	0.00034259
46 FURN, HH FEQ	0	0	0.00025677	0	0	0.00010952	0.00000496	0.00005442
47 EAT&DRINK PL	0.00063770	0	0	0	0	0.000007023	0.00009474	0
48 OTH RETAIL	0.00002346	0	0	0.000005414	0.000007577	0.00121611	0.00030139	0.00010628
49 BANK&CRE AGE	0.00000811	0	0.00525841	0.00190647	0	0	0.00059439	0
50 OTHER F.I.R.E.	0.01012954	0.00622241	0.01283872	0.00490547	0.00397488	0.01507737	0.00989303	0.00318851
51 LEGAL SER	0.00047988	0.00292293	0.00156311	0.00135474	0.00255819	0.00214027	0.00062383	0.00059623
52 LODGING SER	0.00056815	0.00041745	0.00026557	0	0.00004076	0	0.00123000	0.00171580
53 PERSONAL SER	0.00009928	0	0.00273164	0.00000546	0	0.01363232	0.00361352	0.00300225
54 OTH BUS SER	0.01414726	0.00463200	0.00466655	0.00388395	0.00467813	0.000006813	0.01510734	0.00540475
55 AMUSEMENT	0.00032466	0	0	0	0.00091728	0	0	0.00001427
56 MISF. REP	0.00473198	0.00111325	0.00674564	0.00024582	0.00134534	0.00004085	0.00126531	0.00144412
57 PHYSICENTIST	0	0	0.00018210	0	0	0	0.00032369	0.00021446

58 HOSP&MED SER	0.00000811	0	0	0	0	0	0	0.00002942	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0.00195885
60 COL&UNIV	0	0	0	0	0	0	0	0.00007062	0
61 OTH SERVICES	0.00961007	0.00115303	0.00078913	0.00558284	0.00057075	0.00286276	0.00224914	0.01401238	0
62 HOUSEHOLDS	0.34882143	0.21789237	0.26106285	0.46409421	0.26873306	0.44838141	0.43990954	0.50710705	0
63 FED GOVT	0.03399241	0.00652379	0.02072680	0.13469381	0.02534635	0.03255401	0.01284152	0.00293531	0
64 STATE GOVT	0.00091717	0.00082370	0.01070626	0.00394850	0.00142951	0.00373524	0.00542027	0.00717462	0
65 LOCAL GOVT	0.00702899	0.00149901	0.00287941	0.00234383	0.00431998	0.00129507	0.00254241	0.00598995	0
66 GROSS SAVING	0.01649971	0.00533952	0.01260243	0.03476809	0.02945493	0.06024163	0.04438449	0.03494374	0
67 DEPRECIATION	0.02603812	0.01918410	0.06740331	0.02245704	0.03059645	0.01948059	0.04745244	0.02284875	0
68 IMPORTS	0.30162205	0.52708964	0.30258066	0.22685859	0.52273111	0.22222499	0.31812810	0.19144328	0
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL TEXAS, 1967

	25	26	27	28	29	30	31	32
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0	0
5 CR. PET&N. GAS	0	0	0	0.00608898	0	0	0	0.45212208
6 N. GAS LIO	0	0	0.00676965	0.02967834	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.08894001	0.01641596	0.02308455	0.01161732	0	0.01066900	0	0.00173699
9 MEAT PROD	0	0	0	0	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0.00165996	0	0	0	0	0	0	0
13 BEVERAGES	0	0.00251798	0	0	0	0	0	0
14 TEXTILE PROD	0	0	0	0	0	0	0	0.00009700
15 WOOD& PAPER PROD	0	0	0	0.00229100	0	0	0	0
16 PRNT&PUBS	0.00137997	0	0	0.00091932	0.00170099	0	0	0.00049300
17 CHEM&PET PRO	0.02820000	0	0	0.00596032	0	0.00115197	0.00293859	0.00071099
18 PL&LEGL PRO	0	0	0	0.00008165	0	0	0	0
19 CLE&TCE PRO	0	0	0	0.00700799	0	0	0	0
20 METAL PROD	0.02469999	0	0	0	0	0	0	0.00000199
21 MACH&EQUIP	0.00542998	0	0	0.01563999	0	0	0	0.00000400
22 ELECT PROD	0.00319997	0	0	0.00496365	0	0.00569796	0.04617907	0.00000100
23 TRANS EQUIP	0.00384998	0	0	0.00133599	0	0.00075900	0.00167792	0.00000700
24 OTH MFGR	0	0	0	0.00359599	0	0.00855199	0	0
25 RR TRANSPOR	0.04629002	0	0	0	0.00103299	0	0	0.00029299
26 LEINTER TRAN	0	0	0	0	0	0	0	0
27 L&LOTRCK, STR	0.00755999	0	0	0	0.00112099	0.00169998	0	0.00098699
28 OTHER TRANS	0.01068000	0	0	0	0.00067300	0	0	0
29 TELEPT&FLES	0	0.01690446	0.01634635	0.00467265	0	0.01405197	0.01469294	0.00244100
30 RADIO&TV BRC	0.01042000	0	0	0	0	0	0.02350870	0.00054899
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SFRVICES	0.00119000	0.00446347	0.00275363	0.00433066	0.00100100	0.00042099	0.00083832	0.00690999
33 ELEC SFR	0.00251000	0.02073550	0.05122545	0.00778598	0.00815000	0.00897200	0.01628690	0.00095999
34 WAT&SAN SER	0.00321999	0.00320995	0.00098363	0.00002732	0.00097100	0.00169398	0.00329096	0.00024700
35 WHL AUT PT&S	0.00143999	0.03112800	0.01765545	0.03347033	0	0	0	0.00000899
36 WHL GROC	0	0	0	0	0	0	0	0
37 WHL FARM PROD	0	0	0	0	0	0	0	0
38 WHL MAC, EQ, S	0	0	0	0.00063333	0	0	0	0.00001799
39 WHL PET PROD	0	0.01488898	0.00946818	0.03803000	0	0	0	0.00018300
40 GEN WHL	0.01240999	0.01469098	0.00698909	0.00197366	0	0.01515698	0.02728815	0.00240499
41 LUMBER YARDS	0	0	0	0	0	0	0	0
42 FEQ, HT, P, W, E	0	0	0	0	0	0	0	0.00000899
43 DEPT&CLOTHST	0	0	0	0	0	0	0	0
44 FOOD STORES	0	0	0	0	0	0	0	0
45 AUT OL&RP, GS	0	0.00090998	0	0	0	0	0	0.00304399
46 FURN, HN F&EQ	0	0	0	0	0	0	0	0
47 EAT&DRINK PL	0	0.00082646	0	0	0	0	0	0
48 OTH RETAIL	0	0	0	0	0	0	0	0
49 BANK&CRE AGE	0.00422998	0.08234403	0	0	0	0.00129397	0.13560118	0.00366699
50 OTHER F.I.R.F.	0.02297000	0.02957601	0.22651911	0.04539533	0.01381900	0.00894599	0.06003369	0.00943000
51 LEGAL SER	0	0.00571948	0.00528000	0.00329867	0.00039100	0.00217699	0.00461778	0.00365799
52 LODGING SER	0	0.00078500	0	0	0	0	0	0
53 PERSONAL SER	0.00825996	0	0	0	0	0	0	0
54 OTH BUS SFR	0.00746998	0.02510249	0.00147363	0.07125069	0.00376400	0.08840004	0	0.00266900
55 AMUSEMENT	0	0	0	0	0	0.00031198	0	0
56 MISC REP	0	0	0	0	0	0.00115997	0.00839596	0.00319999
57 PHYS&DENTIST	0	0	0	0	0	0	0	0

58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 DTH SERVICES	0	0.00815099	0.01005909	0.00070199	0	0.02767200	0.00839596	0.00301700	0
62 HOUSEHOLDS	0.46310043	0.49696797	0.43390008	0.42705476	0.32980803	0.36308356	0.33337065	0.22568014	0
63 FFD GOVT	0.06000003	0.03735251	0.04640727	0.07958334	0.17961200	0.11311404	0.03690917	0.05395200	0
64 STATE GOVT	0.00174996	0.01394049	0.01078182	0.00762032	0.02402300	0.00544498	0.00308488	0.01503499	0
65 LOCAL GOVT	0.01894998	0.02700847	0.02608909	0.02276533	0.04422400	0.00035697	0	0.03741600	0
66 GROSS SAVING	0.08329984	0.06832842	0.05179543	0.06944776	0	0.06602264	0.01526793	0.04078592	0
67 DEPRECIATION	0.07510003	0.07735203	0.04019636	0.07648135	0.15988901	0.06759501	0	0.08531101	0
68 IMPORTS	0.00178996	0.00078050	0.01222216	0.01729700	0.22982000	0.18539705	0.25762125	0.04296000	0
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL ,TEXAS, 1967

	33	34	35	36	37	38	39	40
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0	0
5 CR.PFT&N.GAS	0	0	0	0	0.00027194	0	0	0
6 N.GAS LIQ	0	0	0	0	0	0	0	0
7 OIL&GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.00132600	0.04964014	0.00180358	0.00116932	0.05055024	0.00346152	0.00001551	0.00006360
9 MEAT PROD	0	0	0	0.00027712	0	0	0	0
10 DAIRIES	0	0	0	0	0	0	0	0
11 MILLING&FEED	0	0	0	0	0	0	0	0
12 FOOD PROCFSS	0	0	0	0	0	0	0	0
13 BEVERAGES	0	0	0.00089207	0.00212140	0.00005581	0.00752932	0.00117491	0.00322508
14 TEXTILE PROD	0.00013500	0.00085476	0.00001333	0.00021397	0.00052610	0.00014540	0.00009481	0.00025029
15 WOOD& PAPER PROD	0.00004600	0.00111214	0.00001645	0.00004999	0.00010853	0.00003409	0.00007649	0.00005631
16 PRNT&PUBS	0.00107500	0.00069999	0.00215650	0.00183000	0.00003537	0.02316392	0.00001371	0.00720905
17 CHEM&PET PRO	0.00162099	0.01606999	0.00001485	0.00060670	0.00001357	0.00071322	0.00128565	0.00099613
18 PL&LF&GL PRO	0.00001599	0.00104999	0	0	0	0	0	0
19 CL&ST&CE PRO	0.00021000	0.03325001	0	0	0	0	0	0
20 METAL PROD	0.00000199	0.00300998	0	0	0	0	0	0
21 MACH&EQUIP	0.00000300	0.00074997	0.00074853	0.00306675	0.00011176	0.00244988	0.02877339	0.00249353
22 ELECT PROD	0.00011100	0.00139203	0.00001117	0.00002546	0.00003134	0.00025021	0.00008401	0.00003028
23 TRANS EQUIP	0.00004200	0	0	0	0	0	0	0
24 OTH MFR	0.00000500	0.00066998	0	0	0	0	0	0
25 RR TRANSPOR	0.00197299	0	0	0.05248525	0	0	0	0.00795800
26 LGINTER TRAN	0	0	0	0	0	0	0	0
27 L&LDTRCK,STR	0.00118900	0	0.01244003	0.09885007	0.02981468	0.00301145	0	0.02363466
28 OTHER TRANS	0.00022400	0	0.00003525	0.00127284	0.00003349	0.00951479	0.00070495	0.00254337
29 TRFLEP&TELEG	0.00226300	0.00248997	0.00767829	0.00784170	0.01283322	0.01279545	0.00575859	0.01043116
30 RADIO&TV BRC	0.00162899	0	0.00026785	0	0	0.01964542	0	0.00120017
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	0.16427402	0.08298001	0.00127853	0.00124320	0.00091977	0.00620138	0.00037152	0.00556294
33 ELEC SER	0	0.06280003	0.00294097	0.00899926	0.01078775	0.01814136	0.00557281	0.01744382
34 WATER&SAN SER	0.00190199	0	0.00094397	0.00153008	0.00172397	0.00938832	0.00018574	0.00860583
35 WHL AUT PTCS	0.00042100	0	0.00004100	0.00005558	0.00000123	0.00232690	0.00011777	0.00010010
36 WHL GROC	0	0	0.00038996	0.00122196	0.00004337	0.00085387	0.01115197	0.00112632
37 WHL FARM PRO	0	0	0.00000228	0.00000216	0.02173119	0	0.00000229	0.00000275
38 WHL MAC,EQ,S	0.00065199	0.01780695	0.00007299	0.00076751	0.00000108	0.00193804	0.00018706	0.00018279
39 WHL PET PROD	0.00036999	0.00100166	0.00003618	0	0	0	0	0.00020614
40 GEN WHL	0.00195400	0.0222103	0.00077739	0.00231976	0.00560814	0.00159760	0.00152939	0.00269597
41 LUMBER YARDS	0.00002199	0	0	0	0	0	0	0
42 FEQ,HT,P,W,E	0.00015400	0	0	0	0	0	0	0
43 DEPT&CLOTHST	0	0	0	0.00024041	0	0	0	0.00008356
44 FOOD STORES	0	0	0.00000228	0.00002831	0	0.00003503	0.00000229	0.00013359
45 AUT DL&PP,GS	0.00866400	0	0.01092683	0.03313077	0.00092467	0.08698018	0.08685711	0.04598795
46 FURN,HN FEED	0	0	0	0	0	0	0	0
47 EAT&DRINK PL	0	0	0.02274020	0.04790129	0.00126048	0.17001227	0.02653015	0.07282240
48 OTH RETAIL	0	0	0.00161014	0.00152716	0.00004813	0	0.00161108	0.00193575
49 BANK&CRE AGE	0.00308200	0	0.02483543	0.00831985	0.01308089	0.04922239	0	0.01477914
50 OTHER F.I.R.E.	0.00579600	0.00623998	0.00502957	0.04504197	0.07523941	0.01173025	0.03436584	0.02519036
51 LEGAL SER	0.00158000	0	0.00488079	0.00165759	0.00000388	0.00157806	0.00111456	0.00287206
52 LODGING SER	0	0	0.00749973	0	0	0	0	0
53 PERSONAL SER	0	0	0.00005952	0.00302830	0	0	0	0.00029917
54 OTH BUS SER	0.00104600	0	0.00918164	0.00900284	0.04717250	0.08212375	0.03783452	0.02748292
55 AMUSEMENT	0	0	0	0	0	0	0	0
56 MISC REP	0.00088100	0	0.00078865	0.00889363	0.00027194	0.00562842	0.01318903	0.00243327
57 PHYS&DENTIST	0	0	0	0	0	0.00007889	0	0

58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELEM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 DTH SERVICES	0.00084399	0	0.00145828	0.01083812	0.00498837	0.00248544	0.00185759	0.00686103	
62 HOUSEHOLDS	0.49210814	0.30054013	0.65583359	0.43468237	0.53956069	0.26813249	0.51709057	0.54263253	
63 FED GOVT	0.03981500	0	0.01929667	0.02883533	0.00025181	0.05476295	0.01688822	0.02475687	
64 STATE GOVT	0.00406399	0	0.00726498	0.00763054	0.00354259	0.00505261	0.00794241	0.00567159	
65 LOCAL GOVT	0.03366500	0	0.00635386	0.00484650	0.02997134	0.00416171	0.00656302	0.00633989	
66 GROSS SAVING	0.07556896	0	0.10016692	0.05038747	0.07529861	0.05294503	0.14477746	0.05718929	
67 DEPRECIATION	0.13439301	0.27498010	0.00717235	0.03426759	0.05489934	0.04269973	0.00148607	0.02464187	
68 IMPORTS	0.01697399	0.14044118	0.08105741	0.08379988	0.01828277	0.02920864	0.04478949	0.04186837	
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL TEXAS, 1967

	41	42	43	44	45	46	47	48
1 IRR CROPS								
2 DRYLAND CROP								
3 LIVESTOCK								
4 OTHER AGRI								
5 CR. PETEN. GAS								
6 N. GAS LIQ								
7 N. GAS FLW								
8 CONSTRUCTION	0.00000548	0.00326477	0.00222038	0.00045397	0.07010061	0.00001273	0.00000754	0.00024033
9 MEAT PROD				0.00099327			0.00041914	0.00041914
10 DAIRIES							0.0002529	
11 MILLINGFEED								
12 FOOD. PROCESS								
13 BEVERAGES	0.00061794	0.00181872	0.00132601	0.00004914	0.00045253	0.00114257	0.00038373	0.00256010
14 TEXTILE PROD	0.00009650	0.00004834	0.00070440	0.00189950	0.0002440	0.00017847	0.00735607	0.00024150
15 WOODS PAPER PROD	0.00002177	0.00001645	0.00014507	0.00039123	0.00000574	0.00073111	0.00007461	0.00027117
16 PRINTGURS	0.01109648	0.01642657	0.02057631	0.08043413	0.02022139	0.02806174	0.00002061	0.00584566
17 CHEM&PET PRO	0.00015503	0.00003803	0.00001269	0.00012489	0.71305574	0.000056834	0.00053788	0.00013687
18 PLGLFGL PRO								
19 CLASTECE PRO								
20 METAL PROD								
21 MACH&EQIP	0.00523388	0.00335537	0.00923091	0.00007492	0.00099379	0.00315324	0.00075343	0.00210172
22 ELECT PROD	0.00001859	0.00025922	0.00343772	0.00111291	0.00010247	0.00002783	0.000002825	0.000002717
23 TRANS EQUIP								
24 OTH MGR								
25 RR TRANSPOR	0.02497072		0.00015697	0.00008925			0.01451254	
26 WINTER TRAN								
27 LCLTRK & STR	7.00832359	0.06669517	0.00298249	0.00134056			0.73344552	0.01818505
28 OTHER TRANS	0.00037978	0.00109123	0.00079614	0.00702948	0.00027152	0.00068553	0.00022994	0.00193506
29 TELETYPELEG	0.706599186	0.01209397	0.00388911	0.00178740	0.0047223	0.01142573	0.00418069	0.02142519
30 RADIO&TV REC			0.0024015	0.00178740	0.00025914	0.01731172		0.02671147
31 OTH COMM								
32 GAS SERVICES	0.00049935	0.00966529	0.00770979	0.00125118	0.00045350	0.00435526	0.00083614	0.01370021
33 ELFC SER	0.00357913	0.03083746	0.02252233	0.01036698	0.00299312	0.01930984	0.01086979	0.04081163
34 IRRIGAN SER	0.00041615	0.01428339	0.01103131	0.00178740	0.00031047	0.00553396	0.00083514	0.02072169
35 WHL AUT PYES	0.00001414	0.00242028	0.00012554	0.00001144	0.00119594	0.00010579	0.00004926	0.00003606
36 WHL GROC	0.00203244	0.00130231	0.00010066	0.00002914	0.00015355	0.00121191	0.00496052	0.00050893
37 WHL FARM PRO	0.00000429	0.00000254	0.00000006	0.00000010	0.00000095	0.00000269	0.00000343	0.00000066
38 WHL AC, EQ, S	0.000000548	0.000004030	0.00139764	0.00030974	0.00010061	0.00029930	0.00000754	0.00115780
39 WHL PET PROD			0.0011746					
40 GEN WHL	0.00066281	0.00055548	0.00750982	0.02024589	0.00036596	0.00193974	0.00378328	0.00261439
41 LUMBER YARDS								
42 FECHT, P, W, E								
43 DE-TECT, HST								
44 FOOD STORES	0.00000254	0.00000254	0.00000306	0.00000010	0.00009772	0.00112524	0.00554563	0.00049253
45 AUT DRAPP, AGS	0.1934902	0.026448600	0.01371695	0.00159588	0.10204238	0.02296571	0.00961795	0.03191666
46 FURN, HN, F&EO								
47 F&E, DRINK, PL	0.01395510	0.04106671	0.02996162	0.00110989	0.01021815	0.02379920	0.00866532	0.05780718
48 OTH RETAIL	0.00305951	0.00178718	0.00004488	0.00007381	0.00706691	0.00190250	0.00241727	0.00004470
49 BANKE&CF, AGE	0.05210596	0.31553364	0.00110606	0.00160867	0.00734323	0.01708197	0.00055742	0.01201571
50 OTHER F. I. R. E.	0.02645913	0.04482502	0.02434248	0.02129579	0.00737427	0.08598152	0.09450044	0.04210913
51 LEGAL SER		0.00195955	0.00025357	0.00142992	0.00737427	0.00063246	0.00194098	0.00097424
52 LODGING SER								
53 PERSONAL SER	0.00162909	0.00008162	0.00001449	0.00545140	0.00060999	0.00046164	0.01700147	0.02276939
54 OTH BUS SER		0.00765184	0.01340544	0.10746361	0.01589432	0.02782826	0.00630573	0.06473993
55 AMUSEMENT								
56 MISC REP	0.00649243	0.00020527	0.00043631	0.01117131	0.00064786	0.02019698	0.00473911	0.00313924
57 PHYSICENTIST								

58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELFM&SEC SCH	0	0	0	0	0	0	0	0	0
60 COLUNIV	0	0	0	0	0	0	0	0	0
61 OTH SERVICES	0.00307970	0.00261275	0.00062548	0.01242250	0.00097179	0.00461643	0.00501683	0.00703623	
62 HOUSEHOLDS	0.56841105	0.60745851	0.24215635	0.42283237	0.34768919	0.54810739	0.44006718	0.52331304	
63 FED GOVT	0.02231858	0.01347755	0.01321430	0.10429544	0.00577462	0.01150678	0.05905742	0.02092692	
64 STATE GOVT	0.01061302	0.00642717	0.00279835	0.00393230	0.00235779	0.00521994	0.02681244	0.00401107	
65 LOCAL GOVT	0.00976978	0.00605949	0.01058107	0.01474614	0.00194830	0.01074117	0.02215581	0.00808340	
66 GROSS SAVING	0.11079844	0.08010380	0.01715673	0.05985806	0.05563044	0.05087812	0.02175982	0.05344146	
67 DEPRECIATION	0.02755119	0.01837091	0.01415660	0.05487352	0.00399082	0.02088947	0.09197520	0.04557312	
68 IMPORTS	0.06031703	0.01764157	0.51763460	0.05345636	0.40384985	0.03409010	0.03543721	0.02331673	
TOTAL	1.00500000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL , TEXAS, 1967

	49	50	51	52	53	54	55	56
1 IRR CROPS	0	0	0	0	0	0	0	0
2 DRYLAND CROP	0	0	0	0	0	0	0	0
3 LIVESTOCK	0	0	0	0	0	0	0	0
4 OTHER AGRI	0	0	0	0	0	0	0	0
5 CR. PETN. GAS	0	0	0	0	0	0	0	0
6 N. GAS LIQ	0	0	0	0	0	0	0	0
7 OIL & GAS FLSV	0	0	0	0	0	0	0	0
8 CONSTRUCTION	0.00515300	0	0.00036950	0.05398558	0.01365618	0.00176690	0.00000282	0.00017642
9 MEAT PROD	0	0	0	0.00058522	0	0	0.00052782	0
10 DAIRIES	0	0	0	0.00007314	0	0	0.00005337	0
11 MILLING & FEED	0	0	0	0	0	0	0	0
12 FOOD PROCESS	0	0	0	0	0	0	0.00036139	0
13 BEVERAGES	0	0.00036145	0	0.00058310	0.00073123	0.00265271	0	0.00018866
14 TEXTILE PROD	0.00086956	0.00087779	0.00004968	0.00084192	0.00314194	0.00071881	0.00047891	0.00078168
15 WOOD & PAPER PROD	0.00022902	0.00018190	0.00028921	0.00017332	0.00004759	0.00015400	0.00014572	0.00016676
16 PRNT & PUBS	0.00004950	0.00927686	0.00158461	0.04542818	0.02897045	0.02641839	0.01266182	0.00001570
17 CHEM & PFT PROD	0	0	0.00058076	0	0.03955449	0.00011783	0.00009617	0.00002280
18 PLELE & GL PRO	0	0	0	0	0	0	0	0
19 CLG & STGCE PRO	0	0	0	0	0.00602053	0	0	0
20 METAL PROD	0	0	0	0	0.00476625	0.00128900	0.00144558	0
21 MACH & EQUIP	0	0.00059666	0.00003687	0	0.01015559	0.00217995	0.00212099	0.00302010
22 ELECT PROD	0.00005115	0.00063729	0.00000367	0.00004951	0.00026772	0.00029850	0.00003513	0.00005433
23 TRANS EQUIP	0	0	0	0	0	0	0	0
24 OTH MFG	0	0	0	0	0.02267733	0.00271964	0.02385255	0
25 RR TRANSPOR	0	0	0.00305498	0	0	0	0	0
26 LG INTER TRAN	0	0	0	0	0.03722695	0	0	0
27 LCLD TRCK, STR	0	0	0	0	0	0.00158666	0	0.00274452
28 OTHER TRNS	0.00013200	0.00105987	0.00012599	0.00034985	0.00294730	0.00632267	0.00036139	0.00011321
29 TELEPH & TELEG	0.00599750	0.00530235	0.01298900	0.00954172	0.00662258	0.01014200	0.01120346	0.00754748
30 RADIO & TV ARC	0.00329900	0	0	0.03885877	0.00627139	0.02364478	0	0
31 OTH COMM	0	0	0	0	0	0	0	0
32 GAS SERVICES	0.00058150	0.00107436	0.00040099	0.03277285	0.00299397	0.00909167	0.00435900	0.00034305
33 ELFC SER	0.00228300	0.00438296	0.00057200	0.10552144	0.00549559	0.02620861	0.04545580	0.00291608
34 WAT & SAN SER	0.00054050	0.00072541	0.00017198	0.05208563	0.00239755	0.01412071	0.01343062	0.00034305
35 WHL AUT PT&S	0	0.00571284	0.00000097	0	0.00002018	0.00240067	0.00000879	0.00000209
36 WHL GROC	0	0.00038095	0.00008383	0.01679870	0.00001176	0.00079121	0.01050562	0.00117290
37 WHL FARM PROD	0	0	0.00000143	0	0.00000362	0.00000186	0.00000210	0.00000262
38 WHL MAC, EQ, S	0	0.00013587	0.00000150	0.00342409	0.00022586	0.00117155	0.00000282	0.00011050
39 WHL PFT PROD	0	0	0	0.00029926	0.00014489	0.00233821	0	0
40 GEN WHL	0.00926681	0.00936548	0.00051797	0.00897995	0.00244410	0.00768473	0.00512809	0.00836393
41 LUMBER YARDS	0	0.02453925	0	0	0	0.00000014	0.00023309	0
42 FEQ, HT, P, W, E	0	0	0	0	0	0.00002344	0.01734729	0
43 DEPT & CLOTHST	0	0	0	0	0	0	0	0
44 FOOD STORES	0	0	0.00000143	0	0.00000362	0.00001058	0.00000210	0.00000262
45 AUT DLERP, GS	0	0.00135500	0.00016347	0.00595933	0.00915023	0.03254650	0.00552801	0.00895580
46 FURN, HN F&EQ	0	0	0	0	0	0.00001198	0.00030574	0
47 EATER, RINK PL	0	0.00398362	0.00181092	0.01316651	0.01651148	0.05989827	0.00162917	0.00426056
48 OTH RETAIL	0	0	0.00101194	0	0.00254863	0.00131626	0.00149258	0.00184193
49 BANK & CRE AGF	0.02591250	0.00006149	0.00286200	0	0.00280957	0.01509968	0.00180701	0.00411679
50 OTHER F. I. P. E.	0.01485200	0.04467104	0.01062000	0.06361143	0.01505132	0.01140267	0.12685229	0.00600368
51 LEGAL SER	0.00262050	0.00925537	0	0.00060582	0.00411402	0.00167144	0	0.00051458
52 LODGING SER	0	0.00378604	0.00010498	0.01666012	0	0	0	0
53 PERSONAL SER	0	0	0	0.01802322	0.00080274	0.00076489	0.01120346	0.00188685
54 OTH BUS SER	0.02057950	0.02708469	0.00144998	0.12595620	0.00192756	0.03610768	0.02276835	0.00049735
55 AMUSEMENT	0	0	0.00048099	0	0	0	0.00072277	0
56 MISC REP	0	0	0.00072798	0.00257474	0.00015051	0.00266298	0.01807010	0
57 PHYS & DENTIST	0	0.00115486	0	0	0	0	0	0

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58 HOSP&MED SER	0	0	0	0	0	0	0	0	0
59 ELENGSEC SCH	0	0	0	0	0	0	0	0	0
60 COL&UNIV	0	0	0	0	0	0	0	0	0
61 OTH SFRVICES	0.00339250	0.00714112	0.00633399	0.01090480	0.00220752	0.00471687	0.01915434	0.00566063	
62 HOUSEHOLDS	0.63878873	0.56353546	0.73540378	0.21388678	0.62971422	0.44327407	0.42231297	0.50097699	
63 FED GOVT	0.05438850	0.01256396	0.06509902	0.02698457	0.00588831	0.02399543	0.03469462	0.02264251	
64 STATE GOVT	0.00453200	0.03145265	0.00161498	0.00452928	0.00258672	0.00845243	0.00144558	0.00205838	
65 LOCAL GOVT	0.01189050	0.00374204	0.00111199	0.01967818	0.00401756	0.00544299	0	0.00325913	
66 GROSS SAVING	0.08180382	0.05054350	0.12737974	0.00493410	0.04960248	0.02814481	0.00197366	0.02597662	
67 DEPRECIATION	0.01964850	0.04586889	0.00470398	0.03456470	0.01234208	0.03797583	0.14094699	0.00411679	
68 IMPORTS	0.09314344	0.12918897	0.01788703	0.06760799	0.04377642	0.14266020	0.03926891	0.37914289	
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : SOUTH CENTRAL , TEXAS, 1967

	57	58	59	60	61	HOUSEHOLDS
1 IRR CROPS	0	0	0	0	0	0.00296259
2 DRYLAND CROP	0	0	0	0	0	0.00112473
3 LIVESTOCK	0	0	0	0	0	0.00297006
4 OTHER AGRI	0	0	0	0	0	0.00525662
5 CR. PETEN. GAS	0	0	0	0	0	0
6 N. GAS LIQ	0	0	0	0	0	0.00038744
7 OIL GAS FLSV	0	0	0	0	0	0
8 CONSTRUCTION	0.00820280	0.00312264	0.00700941	0	0.00002596	0.02093461
9 MEAT PROD	0	0.01092539	0.02274427	0	0	0.01991778
10 DAIRIES	0	0.00350112	0.03016403	0.00000999	0	0.01297791
11 MILLING&FEED	0	0	0	0.00108000	0	0.00045358
12 FOOD PROCESS	0.00019299	0.00700244	0.03896000	0.00094000	0	0.02257580
13 BEVERAGES	0	0	0	0	0.00410632	0.01156068
14 TEXTILE PROD	0.00012445	0.00051399	0.00068473	0.00086000	0.00055729	0.00009022
15 WOOD& PAPER PROD	0.00032073	0.00010582	0.00335104	0.02325595	0.00011836	0.00028676
16 PRNT&PUBS	0.00164480	0.00019875	0.00030119	0.00391000	0.04329802	0.00720180
17 CHEM&PET PRO	0.00064356	0.01392440	0	0.00505000	0	0.00061582
18 PLELFEGL PRO	0	0	0	0.00055999	0	0.00014477
19 CLESTGCE PRO	0	0	0	0.00022999	0	0.00059318
20 METAL PROD	0	0	0	0.00262999	0	0.00042539
21 MACH&EQUIP	0.00004024	0.00000167	0.00003982	0.00798000	0.00235463	0.00067089
22 ELECT PROD	0.00000763	0.00003024	0.00004045	0.01188999	0.00004564	0.00011610
23 TRANS EQUIP	0	0	0	0.00205999	0	0.00022948
24 OTH MFGR	0	0	0	0.02378000	0	0.00044449
25 RR TRANSPOR	0	0	0	0.00092000	0	0.00019756
26 LGNTRFR TRAN	0	0	0.00010000	0	0	0.00229364
27 LGDTRCK, STR	0.00001999	0.00010587	0.00714000	0.00136000	0	0.00677878
28 OTHER TRANS	0.00022199	0.00059626	0	0.0277000	0.00246379	0.00563173
29 TELEP&TELEG	0.01406102	0.01257465	0.00163000	0.01990000	0.00704737	0.01314134
30 RADIO&TV BRC	0	0	0	0.00230000	0	0.00027485
31 OTH COMM	0	0	0	0	0	0.00018703
32 GAS SERVICES	0.00060499	0.00127342	0.00332000	0.00438999	0.01006954	0.00585720
33 ELEC. SER	0.00045800	0.00500630	0.01064000	0.01944000	0.02821233	0.01518438
34 WATER&SAN SER	0.00076800	0.00115019	0.00141000	0.00642000	0.01544667	0.00205521
35 WHL AUT PT&S	0.00000188	0.00000003	0	0	0	0.00050400
36 WHL GROC	0.00004810	0.00715891	0.00089661	0	0.00827139	0.03358745
37 WHL FARM PROD	0.00000013	0	0.00000020	0	0.00001777	0.00068476
38 WHL MAC, EQ, S	0.00007690	0.00220724	0.00301146	0	0.00043406	0
39 WHL PET PROD	0	0	0	0	0	0.00296902
40 GEN WHL	0.00132828	0.00548240	0.00730268	0	0.00583086	0.00868615
41 LUMBER YARDS	0	0	0	0	0	0.00070894
42 FEQ, HT, P, W, E	0	0	0	0	0	0.00367728
43 DEPT&CLOTHST	0	0	0	0	0	0.03238576
44 FOOD STORES	0.00000874	0.00002600	0.00007020	0	0.00001777	0.02374269
45 AUT. DLGRP, GS	0.00024341	0.00000675	0.00009044	0	0.04731395	0.04280693
46 FURN, HN F&EQ	0	0	0	0	0	0.00952948
47 EAT&DRINK PL	0.00059604	0.00057438	0	0	0.09272070	0.00660965
48 OTH RETAIL	0.00009375	0	0.00014042	0	0.01250680	0.02718842
49 BANK&CPE AGE	0.00492400	0.02269131	0	0.00088000	0.01960706	0.04604871
50 OTHER F. I. R. E.	0.01584402	0.00686561	0.00366000	0.10764001	0.00816379	0.02356062
51 LEGAL SER	0.00247000	0.00036555	0	0.00323999	0.00167462	0.00719921
52 LODGING SER	0.00009599	0	0	0	0	0.00132215
53 PERSONAL SER	0.00487300	0.02745348	0.05042000	0.00108000	0.00279104	0.01875725
54 OTH BUS SER	0.00033399	0.00145722	0.00077000	0.02516000	0.02645409	0.00197078
55 AMUSEMENT	0	0	0	0.00136000	0	0.00534258
56 MISC REP	0.00272700	0.00272766	0	0	0.00167462	0.00440447
57 PHYS&DENTIST	0.00104500	0.02626494	0	0	0	0.02231368

58 HOSPEMED SER	0.01048400	0.00393219	0	0	0	0.02364641
59 ELEM&SFC SCH	0	0	0.00019000	0	0	0.04186166
60 COLLEUNIV	0	0	0	0	0.00983842	0.01941560
61 OTH SERVICES	0.00639800	0.00326201	0	0.00127000	0.03419026	0.01343051
62 HOUSEHOLDS	0.72238045	0.55747136	0.68455007	0.62103009	0.47603643	0.02982512
63 FED GOVT	0.01460201	0.04369150	0.00753000	0.01044000	0.02260744	0.11322537
64 STATE GOVT	0.00067699	0.00251203	0	0	0.00076753	0.02908754
65 LOCAL GOVT	0.00270100	0.00712534	0	0.00084999	0.00048843	0.01086726
66 GROSS SAVING	0.03985251	0.00659407	0	0	0.01748953	0.05685906
67 DEPRECIATION	0.01992402	0.03461974	0.09461001	0.02484000	0.00997797	0
68 IMPORTS	0.11296938	0.17748714	0.06929300	0.06047406	0.08738054	0.17443909
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

APPENDIX C

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	1	2	3	4	5	6	7	8
1 IRR CROPS	1.00282943	0.00148966	0.00854590	0.04453283	0.00000037	0.00000042	0.00000034	0.00001218
2 DRYLAND CROP	0.00092362	1.02266018	0.07522055	0.09089286	0.00007768	0.00002828	0.00000724	0.00037058
3 LIVESTOCK	0.00005420	0.00007997	1.08354993	0.00107659	0.00002692	0.00004290	0.00002234	0.00143364
4 OTHER AGRI	0.01092373	0.03771932	0.02594942	1.12800901	0.00000355	0.00000211	0.00000109	0.00004710
5 CR. PFTN. GAS	0.01821485	0.00565614	0.00204106	0.00644494	1.00409775	0.22726299	0.00089919	0.00175765
6 N. GAS LTO	0.00163496	0.00221892	0.00046428	0.00096839	0.00004909	1.00018808	0.00005210	0.00339664
7 OIL GAS FLSV	0.00304563	0.00099433	0.00034926	0.00108870	0.16533319	0.06581997	1.09031209	0.00038585
8 CONSTRUCTION	0.01589273	0.01280793	0.01683720	0.04790782	0.01609446	0.03670925	0.00893010	1.36091327
9 MEAT PROD	0.00001158	0.00001572	0.00000398	0.00001151	0.00000087	0.00000118	0.00000294	0.00001200
10 DAIRIES	0.00000026	0.00000032	0.00000049	0.00000054	0.00000010	0.00000013	0.00000027	0.00000336
11 MILLING&FFED	0.00293800	0.01014060	0.04436419	0.30321179	0.00000190	0.00000206	0.00000110	0.00006225
12 FOOD PROCESS	0.00006905	0.00022779	0.04493674	0.00666597	0.00000167	0.00000232	0.00000288	0.00006784
13 BEVERAGES	0.00026168	0.00034795	0.00023392	0.00039152	0.00005295	0.00004560	0.00019569	0.00037124
14 TEXTILE PROD	0.00025544	0.00035297	0.00093138	0.00541738	0.00013353	0.00021350	0.00010341	0.00722509
15 WOOD& PAPER PROD	0.00464735	0.00609915	0.01763318	0.01905827	0.00038979	0.00083795	0.00039471	0.02402144
16 PRNT&PUBS	0.00201608	0.00250292	0.00195839	0.00349555	0.00068868	0.00038557	0.00058492	0.00380049
17 CHEM&PFT PRO	0.07518760	0.10313839	0.01724534	0.03115039	0.00016409	0.00320355	0.00081771	0.00079988
18 PLG&EGL PRO	0.00014960	0.00020417	0.00154535	0.00011882	0.00000331	0.00001067	0.00000096	0.00013406
19 CLESTECE PRO	0.00055938	0.00047396	0.00058784	0.00161425	0.00051478	0.00115607	0.00032390	0.04259938
20 METAL PROD	0.00094380	0.00082198	0.00498321	0.00386537	0.00091291	0.00203857	0.00057894	0.07476537
21 MACH&EQUIP	0.00062990	0.00101798	0.00054608	0.00089893	0.00058759	0.00046701	0.00172609	0.00114736
22 ELECT PROD	0.00006962	0.00007484	0.00009533	0.00013538	0.00004313	0.00003431	0.00017545	0.00057486
23 TRANS EQUIP	0.00003493	0.00003282	0.00015225	0.00010649	0.00003056	0.00006284	0.00002828	0.00219471
24 OTH MFGP	0.00007885	0.00010097	0.00023072	0.00097458	0.00004877	0.00008080	0.00008974	0.00247578
25 RR TRANSPOR	0.00069331	0.00080803	0.00088822	0.00101738	0.00009131	0.00014541	0.00015764	0.00359950
26 LGINTFR TRAN	0.00008762	0.00011941	0.00002734	0.00004763	0.00000319	0.00000744	0.00004655	0.00002083
27 L&DTRCK, STR	0.00307382	0.00412486	0.00815374	0.02801129	0.00054900	0.00436442	0.00076647	0.00616666
28 OTHER TRANS	0.00036818	0.00046211	0.00030899	0.00046331	0.00007947	0.00007879	0.00027325	0.00063166
29 TELF&TELEG	0.00572622	0.00573109	0.00523614	0.00998660	0.00229238	0.00571481	0.00471698	0.00402876
30 RADIO&TV BRC	0.00036435	0.00031805	0.00041990	0.00053027	0.00019646	0.00016344	0.00068319	0.00081161
31 OTH COMM	0.00000104	0.00000104	0.00000109	0.00000255	0.00000075	0.00000142	0.00000062	0.00004980
32 GAS SERVICES	0.03325855	0.00304619	0.00287286	0.01120259	0.00043402	0.00065178	0.00151762	0.00210230
33 ELEC SER	0.02493305	0.00831769	0.00863012	0.02418528	0.00080956	0.00277454	0.00190097	0.00421447
34 WATERAN SER	0.00143661	0.00180430	0.00121531	0.00280629	0.00026802	0.00020751	0.00026689	0.00243557
35 WHL AUT PTGS	0.00173273	0.00325973	0.00135975	0.00270419	0.00030265	0.00024141	0.00155369	0.00058571
36 WHL GROC	0.00031092	0.00047825	0.00031581	0.00047095	0.00025040	0.00019646	0.00071725	0.00067200
37 WHL FARM PRD	0.01400628	0.00891224	0.00744472	0.00911240	0.00000396	0.00000232	0.00000213	0.00005183
38 WHL MAC, EQ, S	0.00018658	0.00015629	0.00095977	0.00027066	0.00028493	0.00026366	0.001776798	0.00315496
39 WHL PET PROD	0.00505101	0.01434056	0.00584240	0.00699029	0.00047659	0.00027950	0.00292158	0.00206813
40 GFN WHL	0.02752285	0.03302335	0.02389634	0.02365477	0.00142079	0.00231336	0.00114113	0.07686784
41 LUMBR YARDS	0.00105140	0.00095896	0.00517239	0.00759189	0.00025040	0.00018192	0.00008660	0.00383572
42 FEO, HT, P, W, E	0.05933574	0.08200324	0.03660199	0.10281478	0.00001247	0.00001295	0.00001267	0.00035936
43 DEPT&CLOTHST	0.00000728	0.00001401	0.00002586	0.00014539	0.00000648	0.00000225	0.00002744	0.00000998
44 FOOD STORES	0.00003681	0.00004870	0.00003231	0.00005216	0.00000923	0.00000676	0.00002683	0.00005751
45 AUT DLGRP, GS	0.02745482	0.05542852	0.02750974	0.03268854	0.00269889	0.00423299	0.01076981	0.00771856
46 FURN, HN FGEO	0.00000327	0.00000274	0.00000350	0.00000962	0.00000316	0.00000710	0.00000196	0.00026110
47 FAT&DINK PL	0.00583146	0.00781017	0.00511150	0.00859009	0.00116176	0.00010162	0.00441291	0.00829164
48 OTH RETAIL	0.00029159	0.00036126	0.00022743	0.00043536	0.00163899	0.00044659	0.00089911	0.00044615
49 BANK&CRE AGE	0.02618017	0.01468948	0.01932093	0.02039114	0.00967253	0.00328369	0.01870539	0.01731894
50 OTHER F. I. R. F.	0.03045446	0.02736532	0.04448524	0.06669138	0.00862718	0.00382077	0.00264443	0.02345733
51 LEGAL SER	0.00089907	0.00093107	0.00095628	0.00163816	0.00074384	0.00030712	0.00074057	0.00267009
52 LODGING SER	0.00018041	0.00019780	0.00020180	0.00030862	0.00003804	0.00002014	0.00002609	0.00012323
53 PERSONAL SER	0.00021794	0.00027785	0.00021772	0.00032936	0.00021381	0.00010641	0.00122598	0.00044719
54 OTH BUS SER	0.00652493	0.00736643	0.01109376	0.01428004	0.00366932	0.00335285	0.01039402	0.01239169
55 AMUSEMENT	0.00040460	0.00054213	0.00033956	0.00057172	0.00007723	0.00006785	0.00028794	0.00054265
56 MISC REP	0.00697825	0.00240065	0.00225615	0.00894868	0.00042680	0.00028705	0.00209928	0.00396163
57 PHYSICENTIST	0.00004434	0.00003706	0.00038014	0.00013333	0.00038443	0.00016955	0.00246285	0.00016039

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58 HOSP&MED SER	0.00000168	0.00000123	0.00000415	0.00000166	0.00000405	0.00000181	0.00002593	0.00000176
59 ELEM&SEC SCH	0.00000019	0.00000023	0.00000055	0.00000246	0.00000011	0.00000018	0.00000019	0.00000559
60 COL&UNIV	0.00002034	0.00002329	0.00001865	0.00005975	0.00001527	0.00000789	0.00003105	0.00009966
61 OTH SERVICES	0.00206757	0.00236083	0.00189486	0.00607270	0.00155227	0.00080141	0.00315622	0.01011388
TOTAL	1.42911812	1.49678441	1.60121307	2.15625156	1.23054281	1.37650970	1.19878368	1.72756528

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL TEXAS, 1967

	9	10	11	12	13	14	15	
1 TR CROPS	0.00809002	0.02112686	0.07997036	0.02392250	0.00057149	0.00157413	0.00001454	0.00000176
2 DRYLAND CROP	0.05145372	0.04312438	0.18053661	0.06378661	0.00666026	0.02479515	0.00855122	0.00068940
3 LIVESTOCK	0.65937584	0.00052598	0.00356058	0.00012856	0.00014527	0.19751419	0.00010716	0.00006059
4 OTHER AGRI	0.08574626	0.53513450	0.00759993	0.00271704	0.00032002	0.00514085	0.00032468	0.00002810
5 CR. PET&N. GAS	0.00217507	0.00456402	0.00364979	0.00191650	0.00196150	0.00426869	0.00103788	0.00194672
6 N. GAS LIQ	0.00055391	0.00048177	0.00054318	0.00033339	0.00005573	0.00015733	0.00036177	0.00032189
7 OIL&GAS FLSV	0.00037387	0.00076518	0.00061639	0.00032503	0.00032456	0.00070734	0.00018117	0.00032968
8 CONSTRUCTION	0.01365871	0.02301804	0.00375943	0.00216100	0.00083526	0.00367839	0.00481568	0.00200103
9 MEAT PROD	1.00470015	0.00000824	0.00000476	0.00019609	0.00017551	0.00002069	0.00009960	0.00001513
10 DAIRIES	0.00000035	1.03239216	0.00000018	0.00000559	0.00010199	0.00000329	0.00000014	0.00000062
11 MILLING&FEED	0.04579893	0.14384617	1.09052528	0.00117388	0.00009231	0.00819729	0.00009114	0.00000979
12 FOOD PROCESS	0.02777429	0.00316459	0.00019296	1.02000619	0.00442501	0.00819818	0.00004502	0.00000818
13 BEVERAGES	0.00018274	0.00030307	0.00012687	0.00010395	1.00017371	0.00007073	0.00010870	0.00020679
14 TEXTILE PROD	0.00094985	0.00263801	0.01802748	0.00008419	0.00006796	1.00083826	0.00021187	0.00025672
15 WOOD& PAPER PROD	0.01772100	0.00923448	0.00170185	0.01830064	0.00293549	0.00797916	1.08935370	0.08681954
16 PRNT&PUBS	0.00159189	0.00294740	0.00120659	0.00295636	0.00137452	0.00143735	0.00202264	1.01734506
17 CHEM&PET PRO	0.01304546	0.01496208	0.02499747	0.00907010	0.00116934	0.00439010	0.00277186	0.00727180
18 PLE&FDSL PRO	0.00120915	0.00005959	0.00005680	0.00261917	0.00289467	0.00029762	0.00169718	0.00016386
19 CLE&STECF PRO	0.00048258	0.00082543	0.00019287	0.00010776	0.00017657	0.00020557	0.00020618	0.00029467
20 METAL PROD	0.00331162	0.00196937	0.00035401	0.00021734	0.00058049	0.00607964	0.00173580	0.00151171
21 MACH&EQUIP	0.00049016	0.00066084	0.00034617	0.00027706	0.01288165	0.00035631	0.00189134	0.00284624
22 ELECT PROD	0.00008383	0.00021963	0.00005245	0.00002784	0.00005787	0.00003552	0.00011289	0.00007557
23 TRANS EQUIP	0.00010151	0.00005470	0.00001086	0.00265959	0.00011168	0.00003330	0.00011077	0.00003435
24 OTH MFGP	0.00021225	0.00059055	0.00004069	0.00011122	0.00013529	0.00011403	0.00052014	0.00153177
25 RR TRANSPOR	0.00074975	0.00057500	0.00026404	0.00056892	0.00133434	0.00034333	0.02216875	0.00194432
26 LGNTR TRAN	0.00002627	0.00009179	0.00003381	0.00001063	0.00001736	0.00001736	0.00001736	0.00001736
27 LGLDTRCK,STP	0.01721397	0.01363699	0.00120829	0.01961785	0.00298827	0.00542682	0.04150673	0.02100399
28 OTHER TRANS	0.00024409	0.00074060	0.00019206	0.00022100	0.00030688	0.00068313	0.00038277	0.00079206
29 TELF&TELEG	0.00541830	0.00667518	0.00499919	0.00535218	0.00279609	0.00340233	0.00794661	0.00811268
30 RADIO&TV BRC	0.00032912	0.00091848	0.00017283	0.00060623	0.00092116	0.00026808	0.00051123	0.00128243
31 OTH COMM	0.00000088	0.00000157	0.00000042	0.00000097	0.00000037	0.00000046	0.00000968	0.00022258
32 GAS SERVICES	0.00346221	0.00860074	0.00575552	0.00332297	0.00419556	0.00896381	0.00187768	0.00353232
33 ELEC SER	0.00907763	0.01766404	0.00697380	0.00581356	0.00639221	0.02263516	0.00556815	0.00736174
34 WAT&SAN SER	0.00116138	0.00224008	0.00193281	0.00086449	0.00391046	0.00171293	0.00121999	0.00253262
35 WHL AUT PT&S	0.00131026	0.00268638	0.00098184	0.00069605	0.00032731	0.00045416	0.00097395	0.00060664
36 WHL SROC	0.00027036	0.00046410	0.00018762	0.00123247	0.02096397	0.00011250	0.00035781	0.00057004
37 WHL FARM PRO	0.02741948	0.03753220	0.00280358	0.00129405	0.00007664	0.00679473	0.00007897	0.00001069
38 WHL MAC, EQ, S	0.00092613	0.00112036	0.00010279	0.00008826	0.00017047	0.00049973	0.00008661	0.00096928
39 WHL PET PROD	0.00423014	0.00451646	0.00296370	0.00336298	0.00031815	0.00131202	0.00055843	0.00035855
40 GEN WHL	0.01654731	0.01191276	0.00858179	0.00336861	0.00099573	0.00506832	0.00306818	0.00234432
41 LUMBER YARDS	0.00348774	0.00140318	0.00096865	0.00027295	0.00010857	0.00110404	0.00097516	0.00031158
42 FEQ, HT, P, W, E	0.02865960	0.04878166	0.01928682	0.00654499	0.00058313	0.00756511	0.00069467	0.00010851
43 JEPT&CLOTHST	0.00002493	0.00006972	0.00050211	0.00000219	0.00204767	0.00000520	0.00000137	0.00005242
44 FOOD STORES	0.00002495	0.00004133	0.00001682	0.00001441	0.00002321	0.00000955	0.00001446	0.00023314
45 AUT DL&RP, GS	0.01922134	0.01761887	0.01770659	0.00543694	0.00914673	0.00639991	0.00478002	0.00405592
46 FURN, HN F&EQ	0.00000284	0.00000502	0.00000086	0.00000078	0.00000074	0.00000085	0.00000113	0.00000187
47 EAT&DRINK PL	0.00397858	0.00690779	0.00273354	0.00231940	0.00390816	0.00151674	0.00238058	0.00459739
48 OTH RETAIL	0.00021587	0.00040345	0.00018155	0.00014727	0.00019158	0.00007807	0.00026182	0.00176976
49 BANK&CRE AGE	0.01232477	0.01044007	0.00522990	0.00264166	0.00120973	0.01192181	0.01757123	0.00267339
50 OTHER F. I. R. E.	0.03883726	0.03866969	0.03585582	0.00967644	0.00419107	0.01440936	0.02151448	0.01103262
51 LEGAL SER	0.00095471	0.00117529	0.00105518	0.00131947	0.00096638	0.00083225	0.00688021	0.00208974
52 LODGING SER	0.00017307	0.00025527	0.00016384	0.00012738	0.00002592	0.00006711	0.00010043	0.00302739
53 PERSONAL SER	0.00031147	0.00186165	0.00014106	0.00076588	0.00022072	0.00008520	0.00036710	0.01911051
54 OTH BUS SER	0.00866193	0.01273520	0.00467579	0.02375709	0.03697628	0.00682207	0.00829311	0.04063948
55 AMUSEMENT	0.00026456	0.00045683	0.00018736	0.00016018	0.00026707	0.00010312	0.00017530	0.00276668
56 MISC REP	0.00327535	0.00835663	0.01486993	0.00201548	0.00081784	0.00257670	0.00680871	0.00190051
57 PHYS&DENTIST	0.00024848	0.00014068	0.00004471	0.00740345	0.00003792	0.00007835	0.00006041	0.00001694

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58 HOSP&MED SER	0.00000272	0.00010608	0.00000067	0.00007808	0.00000042	0.00000086	0.00000066	0.00000024
59 ELEM&SEC SCH	0.00000051	0.00000143	0.00000191	0.00000023	0.00000027	0.00010201	0.00000104	0.00000303
60 COL&UNIV	0.00002685	0.00009574	0.00004594	0.00000995	0.00003389	0.00001168	0.00014092	0.00012325
61 OTH SERVICES	3.03272859	0.00973064	0.00466932	0.00099252	0.00344358	0.00118730	0.01432261	0.01252707
TOTAL	2.15135656	2.13124998	1.56357215	1.26142982	1.14812057	1.38910875	1.28804036	1.28318597

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	17	18	19	20	21	22	23	24
1 IRR CROPS	0.00000262	0.00047495	0.00000487	0.00000161	0.00000126	0.00000261	0.00000517	0.00000780
2 DRYLAND CROP	0.00039496	0.00393944	0.00078663	0.00036974	0.00030060	0.00105304	0.00016072	0.00088013
3 LIVESTOCK	0.00018774	0.03818432	0.00015772	0.00009914	0.00006370	0.00007683	0.00012964	0.00027371
4 OTHER AGRI	0.00002718	0.00497993	0.00003603	0.00001939	0.00001865	0.00004147	0.00010509	0.00009615
5 CR. PETN. GAS	0.04678626	0.00039402	0.00334797	0.00101735	0.00047680	0.00110584	0.00098668	0.00147128
6 N. GAS LIQ	0.02273012	0.00023505	0.00030339	0.00023823	0.00013954	0.00028501	0.00011520	0.00028203
7 OIL GAS FLSV	0.00834909	0.00015388	0.00055988	0.00017428	0.00008247	0.00019018	0.00016573	0.00025026
8 CONSTRUCTION	0.00262268	0.00386350	0.00054817	0.00007911	0.00075479	0.00277634	0.00181525	0.00125537
9 MEAT PROD	0.00012192	0.05793617	0.00005017	0.00004813	0.00007887	0.00001335	0.00000975	0.00036936
10 DAIRIES	0.00000025	0.00000013	0.00000020	0.00000063	0.00000011	0.00000010	0.00000037	0.0016223
11 MILLING&FEED	0.00001393	0.00265552	0.00001520	0.00000871	0.00000723	0.00001387	0.00003284	0.00003552
12 FOOD PROCESS	0.00001477	0.00186561	0.00010398	0.00000913	0.00000516	0.00002081	0.00000805	0.00009723
13 BEVERAGES	0.00013910	0.00008673	0.00015366	0.00006692	0.00003772	0.00006993	0.00013799	0.00010968
14 TEXTILE PROD	0.00054604	0.00077094	0.00063245	0.00034236	0.00006058	0.00034496	0.00062450	0.00015897
15 WOOD& PAPER PROD	0.04728611	0.10794721	0.09711679	0.04554791	0.03758754	0.13297963	0.01735114	0.10827626
16 PRNT&PUBS	0.00258617	0.00229444	0.00199946	0.01089946	0.00155264	0.00154550	0.00200205	0.00149983
17 CHEM&PET PRO	1.08512501	0.00164515	0.00261103	0.00348267	0.00101992	0.00200856	0.00113416	0.00741871
18 PLE&EGL PRO	0.00205990	1.00024254	0.00081593	0.00081059	0.00134496	0.00021600	0.00012145	0.00055153
19 CL&STCE PRO	0.00014373	0.00023334	1.10486543	0.00297072	0.00013143	0.00023399	0.00018354	0.00040586
20 METAL PROD	0.00039019	0.00139353	0.01230254	1.01305164	0.03324605	0.00105859	0.00469333	0.05271723
21 MACH&EQUIP	0.00149663	0.00034930	0.00294320	0.00025927	1.00477093	0.00120283	0.01465397	0.00042255
22 ELEC PROD	0.00008002	0.00009349	0.00026134	0.00013802	0.00002441	1.00167378	0.00011776	0.00344575
23 TRANS EQUIP	0.00003127	0.00004777	0.00026321	0.00001618	0.000718389	0.00055453	1.03098229	0.00001616
24 OTH MFR	0.00011580	0.00010497	0.00029530	0.00093565	0.00036996	0.00048654	0.00039530	1.01607274
25 RR TRANSPOR	0.00313762	0.00841932	0.05680064	0.00211860	0.00089189	0.00097596	0.00053877	0.00024302
26 LEINTER TRAN	0.00115836	0.000040697	0.00013929	0.00000836	0.00000558	0.00051734	0.00015226	0.00003062
27 L&DTRCK,STR	0.01328799	0.02625161	0.02899132	0.01158829	0.01638632	0.03341795	0.00297539	0.01706554
28 OTHER TRANS	0.00185788	0.00021724	0.00107622	0.00286959	0.00018672	0.00034429	0.00225847	0.00030426
29 TELEP&TELEG	0.01193405	0.00750131	0.00719007	0.00344700	0.00762976	0.01028611	0.00827153	0.00677657
30 RADIO&TV BAC	0.00054687	0.00033804	0.00111571	0.00019650	0.00018292	0.00030205	0.00065235	0.00031890
31 OTH COMM	0.00000070	0.00000069	0.00000088	0.00000033	0.00000101	0.00045102	0.00009156	0.00000192
32 GAS SERVICES	0.00436680	0.00171696	0.00700013	0.00180348	0.00099617	0.00212772	0.00199462	0.00249948
33 ELEC SER	0.01463284	0.00485476	0.00884662	0.00525180	0.00236602	0.00564674	0.00617733	0.00466340
34 WAT&SAN SER	0.00112229	0.00286504	0.00080291	0.00122444	0.00029297	0.00132517	0.00114874	0.00135648
35 WHL AUT P&S	0.00051371	0.00066389	0.00116036	0.00038295	0.00037432	0.00080375	0.00043060	0.00051780
36 WHL GROC	0.00068165	0.00012190	0.00384284	0.00013081	0.00007580	0.00011832	0.00023746	0.00028589
37 WHL FARM PRO	0.00001077	0.00159377	0.00001261	0.00000702	0.00000536	0.00001376	0.00001303	0.00002143
38 WHL MAC, EQ, S	0.00049471	0.00133859	0.01067961	0.00068921	0.00086965	0.00018693	0.000550975	0.00020496
39 WHL PET PROD	0.00030245	0.00053672	0.00083358	0.00025329	0.00018524	0.00036897	0.00033828	0.00021397
40 GEN WHL	0.00600430	0.00888292	0.00226199	0.00375367	0.00078208	0.00364146	0.00658616	0.00185533
41 LUMBER YARDS	0.00046649	0.00061060	0.00069419	0.00025131	0.00024586	0.00077691	0.00038113	0.00045343
42 FFG, HT, P, W, E	0.00005148	0.00173048	0.00007570	0.00005513	0.00006255	0.00016265	0.00014744	0.00062240
43 DEPT. CLOTHST	0.00000200	0.00000266	0.00000261	0.00001545	0.00000774	0.00000156	0.00002925	0.00000179
44 FOOD STORES	0.00002243	0.00001227	0.00002007	0.00000921	0.00000524	0.00001115	0.00002219	0.00001466
45 AUT DLGRP, GS	0.00569375	0.00288126	0.00469223	0.00143483	0.00097269	0.00172130	0.00249179	0.00228039
46 FURN, HN F&EQ	0.00000093	0.00000091	0.00028549	0.00000155	0.00000060	0.00011036	0.00000582	0.00005616
47 FAT&DRINK PL	0.00370057	0.00187525	0.00336430	0.00147831	0.00082208	0.00152022	0.00315448	0.00244270
48 OTH RETAIL	0.00032264	0.00009893	0.00011866	0.00017161	0.00012460	0.00135346	0.00061930	0.00036733
49 BANK&CRE AGE	0.00217691	0.00298180	0.00892464	0.00312679	0.0009157	0.00263527	0.00181959	0.00244388
50 OTHER F. I. R. E.	0.01724302	0.01683311	0.02583891	0.00932786	0.00929247	0.02631505	0.01315237	0.01003361
51 LEGAL SER	0.00122090	0.00385311	0.00285889	0.00187660	0.00305386	0.00347272	0.00106109	0.00160133
52 LODGING SER	0.00070710	0.00050338	0.00041594	0.00006174	0.00009597	0.00011503	0.00135169	0.00182690
53 PERSONAL SER	0.00033092	0.00019331	0.00365110	0.00011287	0.00010479	0.01383346	0.00388635	0.00054568
54 OTH BUS SER	0.01817436	0.00725326	0.00912162	0.00555716	0.0002331	0.00240624	0.01818878	0.00808010
55 AMUSEMENT	0.00059900	0.00012985	0.00022701	0.00010051	0.00098109	0.00010626	0.00022207	0.00017987
56 MISC REP	0.00561932	0.00205718	0.00830414	0.00065221	0.00167196	0.00095307	0.00160008	0.00230006
57 PHYS&DENTIST	0.00004121	0.00003725	0.00023817	0.00001537	0.00001472	0.00003561	0.00035186	0.00023468

58 HOSPEMED SER	0.00000927	0.00000041	0.00000254	0.00000019	0.00000038	0.00000039	0.00002416	0.00000254
59 ELFM&SEC SCH	0.00000028	0.00000028	0.00000064	0.00001837	0.00000073	0.00000099	0.00000084	0.00199073
60 COLGUNIV	0.00011853	0.00003223	0.00003064	0.00006803	0.00001676	0.00005291	0.00010324	0.00016631
61 OTH SERVICES	0.01204777	0.00327579	0.00311264	0.00691467	0.00165218	0.00537750	0.00309381	0.01690377
TOTAL	1.34981538	1.34034993	1.44095635	1.14497223	1.14645859	1.27794394	1.16482565	1.29227158

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INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	25	26	27	28	29	30	31	32
1 IRR CROPS	0.00004315	0.00000211	0.00000089	0.00000080	0.00000010	0.00000078	0.00000067	0.00000043
2 DRYLAND CROP	0.00017887	0.00003162	0.00002065	0.00005635	0.00000249	0.00002854	0.00006002	0.00004043
3 LIVESTOCK	0.00016069	0.00005889	0.00000848	0.00005380	0.00000453	0.00004612	0.00005111	0.00003911
4 OTHER AGRI	0.00001200	0.00000311	0.00000300	0.00000459	0.00000023	0.00000324	0.00000383	0.00000245
5 CR,PET&N,GAS	0.00297604	0.00433079	0.00725964	0.01650429	0.00118889	0.00207318	0.00242160	0.45735114
6 N.GAS LIQ	0.00140870	0.00008485	0.00687579	0.02990086	0.00003293	0.00011597	0.00010573	0.00005647
7 OIL&GAS,FLSV	0.00053002	0.00071550	0.00137058	0.00356656	0.00019669	0.00034466	0.00040173	0.07530770
8 CONSTRUCTION	0.12823537	0.02328886	0.03228669	0.01774629	0.00032287	0.01532978	0.00198566	0.0098203
9 MEAT PROD	0.00000856	0.00000483	0.00000344	0.00001320	0.00000036	0.00000899	0.00000365	0.00000102
10 DAIRIES	0.00000046	0.00000063	0.00000033	0.00000059	0.00000002	0.00000096	0.00000020	0.00000009
11 MILLING&FEED	0.00000953	0.00000299	0.00000388	0.00000312	0.00000022	0.00000281	0.00000292	0.00000206
12 FOOD PROCESS	0.00178412	0.00001571	0.00000592	0.00000581	0.00000221	0.00000615	0.00000488	0.00000277
13 BEVERAGES	0.00014492	0.00276828	0.00024506	0.00034610	0.00002042	0.00044858	0.00020152	0.00004468
14 TEXTILE PROD	0.00078582	0.00028235	0.00041872	0.00022878	0.00002177	0.00020379	0.00024688	0.00019484
15 WOOD&PAPER PROD	0.00598968	0.00072126	0.00100417	0.00591977	0.00020267	0.00251238	0.00664393	0.00035301
16 PRNT&PUBS	0.00292989	0.00202733	0.00353653	0.00396248	0.00202867	0.00426415	0.00178252	0.00121248
17 CHEM&PET PRD	0.03289209	0.00031427	0.00031890	0.00694176	0.00009761	0.00162450	0.00354421	0.00094774
18 PL&LEGI PRD	0.00011770	0.00001786	0.00000913	0.00015496	0.00000215	0.00006211	0.00002443	0.00000439
19 CHESTECE PRD	0.00439044	0.00090781	0.00109481	0.00836138	0.00005805	0.00063404	0.00022791	0.00033049
20 METAL PROD	0.03361053	0.00140257	0.00183498	0.00196277	0.00006098	0.00148700	0.00022157	0.00057878
21 MACH&EQUIP	0.00633097	0.00070577	0.00061078	0.01720834	0.00005016	0.00043511	0.00031208	0.00033129
22 ELECT PROD	0.00357618	0.00007026	0.00018942	0.00507704	0.00002194	0.00581373	0.04646449	0.00030733
23 TRANS EQUIP	0.00444391	0.00004745	0.00006184	0.00153495	0.00000688	0.00081516	0.00175938	0.00002799
24 OTH MFR	0.00086820	0.00016451	0.00011255	0.00395941	0.00002217	0.00905268	0.00028120	0.00004764
25 RR TRANSPOR	1.04927241	0.00045113	0.00058463	0.00085807	0.00112996	0.00051763	0.00093851	0.00042672
26 L&INTER TRAN	0.00036635	1.00000964	0.00009024	0.00002273	0.00000237	0.00002139	0.00003479	0.00000691
27 L&L&TRCK,STR	0.01003110	0.00133707	1.00109903	0.00218245	0.00122400	0.00321814	0.00267917	0.00143649
28 OTHER TRANS	0.01157770	0.00038348	0.00044844	1.00067437	0.00073532	0.00677452	0.00030337	0.00009840
29 TELE&TELEFG	0.00192958	0.01881021	0.01869658	0.00717608	1.00022121	0.01660498	0.01755570	0.00383233
30 RADIO&TV ARC	0.01141343	0.00117106	0.00043321	0.00197035	0.00013961	1.000732610	0.02428549	0.00075612
31 OTH COMM	0.00000723	0.00000133	0.00000202	0.00000392	0.00000047	0.00000417	1.00002152	0.00000064
32 GAS SERVICES	0.00704989	0.00946889	0.01252711	0.00738579	0.00258520	0.00436859	0.00499319	1.00754690
33 ELEC SER	0.00539900	0.02351425	0.05389947	0.01135937	0.00851973	0.01357770	0.01912670	0.00181575
34 WAT&SAN SER	0.00408701	0.00425801	0.00187228	0.00143757	0.00108292	0.00379326	0.00417039	0.00053191
35 WHL AUT P&S	0.00233984	0.03147689	0.01913080	0.03406113	0.00014950	0.00041446	0.00049287	0.00024683
36 WHL GROC	0.00016719	0.00046018	0.00042007	0.00067280	0.00001878	0.00045589	0.00022319	0.00017006
37 WHL FARM PROD	0.00000850	0.00000277	0.00000349	0.00000287	0.00000020	0.00000273	0.00000272	0.00000285
38 WHL MAC,EQ,S	0.00047049	0.00024418	0.00025420	0.00105349	0.00003973	0.00026162	0.00015174	0.00134023
39 WHL PFT PROD	0.00077260	0.01504644	0.00959788	0.03830955	0.00005608	0.00031855	0.00008212	0.00042865
40 GEN WHL	0.02135479	0.01772302	0.01149338	0.00444532	0.00025589	0.01735887	0.03027889	0.00347518
41 LUMBER YARDS	0.00110165	0.00094648	0.00598338	0.00134614	0.00037091	0.00039086	0.00170563	0.00038478
42 FEQ,HT,P,W,E	0.00005443	0.00002104	0.00002476	0.00002547	0.00000239	0.00003334	0.00001967	0.00001781
43 DEPT&CLOTHST	0.00000331	0.00000815	0.00000239	0.00000269	0.00000039	0.00000370	0.00000362	0.00000286
44 FOOD STORES	0.00002120	0.00003906	0.00002822	0.00004525	0.00000272	0.00000607	0.00002857	0.00000976
45 AUT DL&RP,GS	0.00247698	0.00595877	0.00407264	0.00803397	0.00033519	0.00636660	0.00705666	0.00521862
46 FURN,HN F&EQ	0.00002534	0.00000511	0.00000645	0.00000729	0.00000014	0.00000554	0.00000573	0.00000200
47 EAT&DRINK PL	0.00146886	0.00642132	0.00459256	0.00769463	0.00039958	0.01007720	0.00427837	0.00140775
48 OTH RETAIL	0.00015946	0.00031715	0.00030598	0.00033898	0.00001754	0.00059240	0.00031727	0.00081730
49 BANK&CRE AGE	0.00700081	0.08689483	0.00218388	0.00303745	0.00017244	0.00412178	0.14052100	0.00850286
50 OTHER F.I.R.E.	0.03225928	0.03621715	0.24060993	0.05296508	0.01507124	0.01429171	0.00903606	0.01470426
51 LEGAL SER	0.00090346	0.00673126	0.00791426	0.00439714	0.00057911	0.00274404	0.00604067	0.00417981
52 LODGING SER	0.00017869	0.00118527	0.00108429	0.00049165	0.00006528	0.00008893	0.00028027	0.00006328
53 PERSONAL SER	0.00089719	0.00024640	0.00023388	0.00040924	0.00006055	0.00052523	0.00083052	0.00015638
54 OTH BUS SER	0.01365514	0.03154244	0.01050471	0.07884174	0.00455273	0.09475693	0.00887425	0.00527704
55 AMUSEMENT	0.00022957	0.00042134	0.00030797	0.00052414	0.00003095	0.00097252	0.00029093	0.00009616
56 MISC REP	0.00071370	0.00055519	0.00048934	0.00107999	0.00004161	0.00170385	0.00869481	0.00347088
57 PHYS&DENTIST	0.00006558	0.00004599	0.00022469	0.00007445	0.00001794	0.00002115	0.00008185	0.00018784

58 HOSPEMED SER	0.00000109	0.00000049	0.00000300	0.00000089	0.00000019	0.00000026	0.00000094	0.00000199
59 ELEMESEC SCH	0.00000178	0.00000035	0.00000026	0.00000778	0.00000005	0.00001776	0.00000058	0.00000011
60 COLUNIV	0.00002442	0.00009631	0.00012686	0.00002293	0.00000204	0.00029475	0.00010983	0.00004047
61 OTH SERVICES	0.00245006	0.00978892	0.01289436	0.00232008	0.00020779	0.02995369	0.01115025	0.00411307
TOTAL	1.42703998	1.35021141	1.47949822	1.39679683	1.44243661	1.27575593	1.42742101	1.61758811

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	33	34	35	36	37	38	39	40
1 IRR CROPS	0.00000045	0.00000288	0.00000102	0.00000678	0.00001433	0.00000636	0.00000142	0.00000343
2 DRYLAND CROP	0.00001404	0.00009581	0.00001527	0.00005676	0.00006793	0.00009446	0.00002841	0.00004699
3 LIVESTOCK	0.000003992	0.000029904	0.000004310	0.000028533	0.000021375	0.000014745	0.000005506	0.000010638
4 OTHER AGRI	0.000000153	0.00001482	0.000000338	0.000003040	0.000032025	0.000016000	0.000004300	0.000008120
5 CR,PET&N,GAS	0.07537540	0.04378344	0.00138202	0.00271186	0.00223824	0.00621782	0.00129893	0.00515950
6 N,GAS LIQ	0.000007518	0.000056538	0.00012922	0.00085316	0.00041129	0.00046460	0.00011832	0.00033579
7 OIL&GAS FLSV	0.01241323	0.00722531	0.00023123	0.00047075	0.00038022	0.00103700	0.00021724	0.00085908
8 CONSTRUCTION	0.00394526	0.06912186	0.00393276	0.01217832	0.07193392	0.00764173	0.00061845	0.00330331
9 MEAT PROD	0.00000186	0.00006757	0.00001658	0.00030479	0.00000427	0.00008724	0.00002107	0.00003959
10 DAIRIES	0.00000005	0.00000036	0.00000143	0.00000187	0.00000044	0.00000626	0.00000112	0.00000271
11 MILLING&FEED	0.00000181	0.00001432	0.00000243	0.00001822	0.00009353	0.00000948	0.00000310	0.00000597
12 FOOD PROCESS	0.00000566	0.00001789	0.00000761	0.00011878	0.00001323	0.00005129	0.00001154	0.00003834
13 BEVERAGES	0.00004219	0.00018962	0.00098046	0.00233190	0.00031531	0.00799267	0.00142231	0.00345551
14 TEXTILE PROD	0.00019609	0.00129071	0.00016328	0.00043251	0.00106901	0.00045715	0.00020896	0.00041077
15 WOOD&PAPER PROD	0.00041573	0.00712177	0.00046450	0.00111685	0.00175608	0.00312232	0.00158470	0.00131821
16 PRNT&PUBS	0.00154409	0.00177698	0.00329452	0.00420991	0.00298317	0.02757328	0.00216985	0.00950785
17 CHEM&PET PROD	0.00218191	0.01788052	0.00335148	0.00333362	0.00027784	0.00319200	0.00301041	0.00261846
18 PL&LEGL PRO	0.03002391	0.00112993	0.00000826	0.00002666	0.00001429	0.00005741	0.00005217	0.00003390
19 CL&ST&CE PROD	0.00043572	0.03893486	0.00019862	0.00053300	0.00236780	0.00077753	0.00007943	0.00050230
20 METAL PROD	0.00029682	0.00733303	0.00029575	0.00227668	0.00407154	0.00088990	0.00111339	0.00064874
21 MACH&EQUIP	0.00012516	0.00107813	0.00089244	0.00380873	0.00044799	0.00340759	0.02926922	0.00298627
22 ELECT PROD	0.00014641	0.00146283	0.00006410	0.00030223	0.00015745	0.00054281	0.00015810	0.00015898
23 TRANS EQUIP	0.00006243	0.00013215	0.00001671	0.00027475	0.00012266	0.00008229	0.00002199	0.00007293
24 OTH MFR	0.00004518	0.00087137	0.00011387	0.00029280	0.00031711	0.00092075	0.00002162	0.00031951
25 RR TRANSPOR	0.00221533	0.00243799	0.00050219	0.00515448	0.00049174	0.00315666	0.00125123	0.00983894
26 AIR&INTER TRAN	0.00000606	0.00003036	0.00002774	0.00017562	0.00001074	0.00015015	0.00003274	0.00007919
27 LEIDLTRCK,STR	0.00162015	0.00216457	0.01358193	0.10180127	0.03148417	0.01053079	0.00304257	0.02711856
28 OTHR TRNS	0.00030946	0.00033926	0.00068621	0.00218651	0.00056982	0.01038614	0.00113124	0.00302105
29 TELE&TELEFG	0.00319212	0.00407952	0.00877354	0.01122032	0.01531289	0.01691596	0.00771764	0.01275387
30 RADIO&TV BRC	0.00185795	0.00067864	0.00100725	0.00110359	0.00143103	0.02229949	0.00112440	0.00226261
31 OTH COMM	0.00000055	0.00000353	0.00000088	0.00000152	0.00000331	0.00000655	0.00000059	0.00000228
32 GAS SERVICES	0.16585251	0.09473916	0.00294282	0.00525081	0.00469582	0.01307040	0.00254520	0.01094838
33 FLEC SER	1.00081107	0.06439321	0.00571682	0.01708880	0.01555715	0.02614954	0.00845228	0.02260534
34 WAT&SAN SER	0.00209926	1.00059801	0.00174384	0.00262587	0.00302596	0.01156590	0.00111730	0.00967997
35 WHL AUT PT&S	0.00055908	0.00024107	1.00043397	0.00257498	0.00126169	0.00348664	0.00069007	0.00111443
36 WHL GROC	0.00006241	0.00025886	0.00077798	1.00198720	0.00029669	0.00260921	0.01156513	0.00195436
37 WHL FARM PROD	0.00000172	0.00001135	0.00000425	0.00001450	1.02224378	0.00000768	0.00000503	0.00000774
38 WHL MAC,EQ,S	0.00092693	0.01954729	0.00089638	0.00092645	0.00032411	1.00238211	0.00033003	0.00047400
39 WHL PFT PROD	0.00047605	0.00122353	0.00023460	0.00111804	0.00056600	0.00076327	1.00018166	0.00068740
40 GEN WHL	0.00278155	0.00688037	0.00182610	0.00593564	0.01160528	0.00522877	0.00278838	1.00465567
41 LUMBER YARDS	0.00026242	0.00045794	0.00033148	0.00201319	0.00242320	0.00101300	0.00106036	0.00109932
42 FEQ,HT,P,W,E	0.00015998	0.00004708	0.00003240	0.00007903	0.00006429	0.00022341	0.00004333	0.00009969
43 DEPT&CLOTHST	0.00000182	0.00000186	0.00000474	0.00025133	0.00000259	0.00002966	0.00001698	0.00009862
44 FOOD STORES	0.00000608	0.00002567	0.00014040	0.00032076	0.00004032	0.00104287	0.00018127	0.00056859
45 AUT DL&RP,GS	0.01092633	0.00387983	0.01350774	0.03999133	0.00470930	0.10404441	0.09988937	0.05475623
46 FURN,HN F&EQ	0.00000091	0.00002302	0.00000142	0.00000363	0.00001463	0.00000642	0.00000132	0.00000271
47 EAT&DRINK PL	0.00092043	0.00424526	0.02469339	0.05232782	0.00674323	0.13033369	0.03194524	0.07785552
48 OTH RETAIL	0.00017255	0.00013839	0.00175096	0.0194987	0.00089335	0.00192102	0.00238075	0.00238075
49 BANK&CRE AGE	0.00490027	0.00329129	0.02618102	0.01053923	0.01607760	0.05441052	0.00244698	0.01716179
50 OTHER F.I.R.&E.	0.00939790	0.01170282	0.01309024	0.08074111	0.09166755	0.04031989	0.04308443	0.04436708
51 LEGAL SER	0.00239169	0.00092020	0.00529165	0.00332515	0.00139646	0.00193063	0.00193063	0.00391325
52 LODGING SER	0.00004677	0.00007527	0.00769121	0.00034641	0.00037298	0.00026678	0.00018137	0.00021002
53 PERSONAL SER	0.00009819	0.00028103	0.00073318	0.00461748	0.00026748	0.00393659	0.00079091	0.00204777
54 OTH BUS SER	0.00289427	0.00394627	0.01257857	0.01513415	0.05462712	0.09593902	0.04343685	0.03353562
55 AMUSEMENT	0.00006537	0.00028419	0.00159588	0.00337377	0.00044155	0.01164799	0.00208374	0.00502380
56 MISC REP	0.00151372	0.00111927	0.00107035	0.00947546	0.00077232	0.00730417	0.01378259	0.00320762
57 PHYS&DENTIST	0.00003944	0.00004517	0.00001622	0.00009675	0.00011402	0.00012968	0.00005066	0.00005408

58 HOSP&MED SER	0.00000043	0.00000062	0.00000017	0.00000105	0.00000121	0.00000139	0.00000056	0.00000059
59 ELEM&SEC SCH	0.00000011	0.00000184	0.00000024	0.00000062	0.00000073	0.00000185	0.00000045	0.00000067
60 COL&UNIV	0.00001769	0.00001488	0.00002327	0.00013599	0.00007252	0.00006158	0.00003179	0.00008803
61 OTH SERVICES	0.00179773	0.00151153	0.00236497	0.01382045	0.00737029	0.00625843	0.00322943	0.00894716
TOTAL	1.31577637	1.42902255	1.16283604	1.48458687	1.38593455	1.70439324	1.32996785	1.39456437

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	41	42	43	44	45	46	47	48
1 IRR CROPS	0.00000186	0.00000174	0.00000237	0.00001185	0.00000058	0.00000163	0.00000694	0.00000264
2 DRYLAND CROP	0.00002429	0.00003576	0.00005543	0.00017009	0.00001494	0.00004975	0.00005577	0.00004241
3 LIVESTOCK	0.00004202	0.00005588	0.00017257	0.00107326	0.00002264	0.00008504	0.00043138	0.00010270
4 OTHER AGRI	0.00000275	0.00000491	0.00000757	0.00009929	0.00000185	0.00000539	0.00005955	0.00000712
5 CR. PETEN. GAS	0.00092289	0.00782346	0.00617309	0.00271944	0.00140760	0.00047803	0.00243019	0.01098921
6 N. GAS LIQ	0.00013069	0.00013846	0.00009386	0.00009140	0.00003527	0.00017996	0.00031821	0.00023689
7 OIL & GAS FLSV	0.00015567	0.00129212	0.00101911	0.00045037	0.00024179	0.00074245	0.00040918	0.00181618
8 CONSTRUCTION	0.00409313	0.00632323	0.00449454	0.00180344	0.00051880	0.00182234	0.00383561	0.00331928
9 MEAT PROD	0.00000897	0.00002275	0.00001756	0.00100545	0.00000821	0.00001644	0.00046951	0.00003175
10 DAIRIES	0.00000057	0.00000155	0.00000117	0.00000050	0.00000047	0.00000112	0.00003026	0.00000219
11 MILLING & FEED	0.00000226	0.00000330	0.00000802	0.00006390	0.00000130	0.00000447	0.00003101	0.00000557
12 FOOD PROCESS	0.00005044	0.00001376	0.00001610	0.00004912	0.00000440	0.00001189	0.00007222	0.00002040
13 BEVERAGES	0.00070362	0.00194579	0.00145886	0.00053201	0.00058398	0.00136867	0.00058041	0.00277464
14 TEXTILE PROD	0.00018313	0.00020750	0.00081614	0.00209583	0.00008740	0.00037631	0.00062500	0.00041490
15 WOOD & PAPER PROD	0.00149374	0.00201471	0.00307095	0.00805061	0.00106126	0.00383186	0.00100297	0.00140868
16 PRNT & PUBS	0.01215521	0.01805809	0.02205063	0.08622720	0.00334820	0.03109424	0.00404921	0.00813769
17 CHEM & PFT PRO	0.00147395	0.00107326	0.00081199	0.00132633	0.01590663	0.00155480	0.00223020	0.00141520
18 PLELEGL PRO	0.00001667	0.00003346	0.00003805	0.00002777	0.00003475	0.00002733	0.00002470	0.00004226
19 CLESTCE PRO	0.00017589	0.00077148	0.00061914	0.00027131	0.00005606	0.00032645	0.00034686	0.00093673
20 METAL PROD	0.00110945	0.00059854	0.00069799	0.00048502	0.00010034	0.00037673	0.00098794	0.00044914
21 MACH & EQUIP	0.00558574	0.00367611	0.00955384	0.00083244	0.00057842	0.00362847	0.00145801	0.00249714
22 ELECT PROD	0.00014663	0.00034706	0.00352300	0.00021053	0.00014114	0.00024251	0.00019844	0.00017530
23 TRANS EQUIP	0.00015429	0.00004425	0.00008441	0.00001658	0.00000778	0.00004932	0.00008317	0.00003940
24 OTH MFGR	0.00009504	0.00018182	0.00019823	0.00063741	0.00011361	0.00039318	0.00020642	0.00031520
25 RR TRANSPOR	0.02665580	0.00100281	0.00096341	0.00073026	0.00030883	0.00082948	0.01608409	0.00132381
26 LGINTR TRAN	0.00003074	0.00004871	0.00004264	0.00027983	0.00005431	0.00005565	0.00068368	0.00005263
27 LGDTRCK, STR	0.00983252	0.00908450	0.00521523	0.00442912	0.00086037	0.00161037	0.03532925	0.02104095
28 OTHER TRANS	0.00079081	0.00132085	0.00103435	0.00098691	0.00049387	0.00113071	0.00782511	0.00191719
29 TELEP & TELEG	0.00829403	0.01371009	0.00522782	0.00460872	0.00053985	0.00714114	0.00712910	0.02354474
30 RADIO & TV BPC	0.00064450	0.00047111	0.00314596	0.00294246	0.00083852	0.01836606	0.00003592	0.00761920
31 OTH COMM	0.00000288	0.00000434	0.00000657	0.00001902	0.00000081	0.00000698	0.00000112	0.00000198
32 GAS SERVICES	0.00183877	0.01706358	0.01347460	0.00582586	0.00163819	0.00963588	0.00001825	0.02395374
33 ELFC SER	0.00544447	0.03413898	0.02522075	0.01573816	0.00461210	0.02353462	0.01742805	0.04614856
34 WATER SAN SER	0.00089686	0.01488466	0.01242248	0.00416350	0.00076380	0.00661836	0.00000000	0.02171846
35 WHL AUT PTGS	0.00049595	0.00303793	0.00052156	0.00060412	0.00148609	0.00114196	0.00100000	0.00055957
36 WHL GROC	0.00225230	0.00178485	0.00037381	0.00044541	0.00033415	0.00166992	0.00792618	0.00150583
37 WHL FARM PROD	0.00000634	0.00000536	0.00000676	0.00004324	0.00000218	0.00000667	0.00002233	0.00000670
38 WHL MAC, EQ, S	0.00007750	0.00044567	0.00173038	0.00064234	0.00017159	0.00055752	0.00014881	0.00169166
39 WHL PET PROD	0.00014754	0.00021070	0.00028472	0.00038690	0.00007919	0.00030732	0.00043101	0.00003963
40 GEN WHL	0.00239933	0.00223337	0.00970568	0.02218261	0.00103187	0.00437945	0.00655006	0.00000412
41 LUMB & P YARDS	1.00085496	0.00139497	0.00080119	0.00071713	0.00029113	0.00245920	0.00309764	0.00000000
42 FEQ, HT, P, W, E	0.00002345	1.00006140	0.00005301	0.00007277	0.00001819	0.00004725	0.00115305	0.00000000
43 DEPT & CLOTHST	0.00000677	0.00000983	1.00000705	0.00000941	0.00011093	0.0011.63	0.00000667	0.00000000
44 FOOD STORES	0.00009467	0.00024931	0.00018602	1.00008811	0.00007509	0.00017940	0.00561835	0.00000000
45 AUT DLGRP, GS	0.02273968	0.03165213	0.01752748	0.00883332	1.11489474	0.02887314	0.01378687	0.03507072
46 FURN, HN FEQ	0.00000121	0.00000243	0.00000225	0.00000217	0.00000063	1.00000153	0.00002096	0.00000000
47 FAT & DRINK PL	0.01574840	0.04371746	0.03281197	0.01188554	0.01315182	0.03049480	1.01266249	0.06241229
48 OTH RETAIL	0.00322190	0.00206177	0.00026689	0.00067613	0.00084612	0.00226220	0.00279129	1.00044186
49 BANK & CRE AGE	0.05438075	0.01527376	0.00230851	0.00472865	0.01465243	0.01931552	0.00209892	0.01424221
50 OTHER F. I. R. E.	0.03439499	0.05613005	0.03209065	0.02872272	0.01176909	0.09991752	0.12512721	0.05888761
51 LEGAL SFR	0.00067144	0.00292938	0.00092333	0.00230202	0.00122461	0.00215072	0.00359094	0.00215220
52 LODGING SER	0.00017332	0.00293777	0.00019356	0.00036961	0.00097606	0.00048645	0.00051133	0.00025989
53 PERSONAL SER	0.00078286	0.00127524	0.00111193	0.00745352	0.00100651	0.00171452	0.01829410	0.00136815
54 OTH BUS SER	0.00561800	0.01227334	0.01741617	0.11765392	0.01984473	0.03662028	0.01395958	0.02899708
55 AMUSEMENT	0.00104591	0.00285359	0.00216883	0.00097484	0.00085839	0.00204232	0.06497657	0.00403004
56 MISC RFP	0.00672930	0.00672533	0.00488717	0.01186651	0.00097084	0.02072513	0.00630697	0.00385946
57 PHYSICENTIST	0.00004101	0.00006878	0.00004033	0.00003524	0.00001432	0.00011779	0.00014707	0.00007307

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58 HOSP&MED SER	0.00000045	0.00000073	0.00000043	0.00000038	0.00000028	0.00000125	0.00000157	0.00000078
59 ELEM&SEC SCH	0.00000020	0.00000038	0.00000047	0.00000146	0.00000023	0.00000081	0.00000411	0.00000066
60 COLLEUNIV	0.00004170	0.00004091	0.00001845	0.00014993	0.00001712	0.00007265	0.00008350	0.00009042
61 OTH SERVICES	0.00423692	0.00415816	0.00187462	0.01523919	0.00174026	0.00738356	0.00848621	0.00919013
TOTAL	1.23934718	1.32528918	1.24804367	1.38406219	1.22423282	1.40512103	1.40730211	1.41914331

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	49	50	51	52	53	54	55	56
1 IRR CROPS	0.00000164	0.00000201	0.00000032	0.00001010	0.00000621	0.00000352	0.00001577	0.00000149
2 DRYLAND CRMP	0.00002933	0.00003964	0.00000726	0.000124015	0.00015808	0.00007136	0.00011130	0.00002543
3 LIVESTOCK	0.00019329	0.00019732	0.00001675	0.00073165	0.0007430	0.00019707	0.00050624	0.00016329
4 OTHER AGRI	0.00000539	0.00000654	0.00000093	0.00010434	0.00002306	0.00001054	0.00008264	0.00000480
5 CR. PETEN. GAS	0.00076697	0.00143376	0.00040043	0.02734330	0.00428656	0.00761453	0.00690408	0.00059214
6 N. GAS LIO	0.00003411	0.00005849	0.00002722	0.00034461	0.00107329	0.00028084	0.00008270	0.00003719
7 OIL & GAS FLSV	0.00012726	0.00023774	0.00006671	0.00451205	0.00073629	0.00126176	0.00113915	0.00009856
8 CONSTRUCTION	0.00747023	0.00081363	0.00099963	0.08123794	0.02025767	0.00420054	0.00201600	0.00053872
9 MEAT PRD	0.00000158	0.00000719	0.00000191	0.00062172	0.00002414	0.00003429	0.00054877	0.00000359
10 DAIRIES	0.00000013	0.00000068	0.00000013	0.00007806	0.00000249	0.00000700	0.00000225	0.00000022
11 MILLING & FEED	0.00000817	0.00000867	0.00000088	0.00005348	0.00002952	0.00000972	0.00004909	0.00000700
12 FOOD PROCESS	0.00000902	0.00001307	0.00000682	0.00004126	0.00003623	0.00002537	0.00003918	0.00000864
13 BEVERAGES	0.00012298	0.00056656	0.00004711	0.00124673	0.00091814	0.00291496	0.00033613	0.00026910
14 TEXTILE PRD	0.00097426	0.00097603	0.00007955	0.00164055	0.00333674	0.00088467	0.00074083	0.00091571
15 WOOD & PAPER PRD	0.00054450	0.00141764	0.00057385	0.00690345	0.00863298	0.00351218	0.00466484	0.00041070
16 PRNTPUBS	0.00115818	0.01177675	0.00216056	0.05356339	0.03035742	0.02906507	0.01693767	0.00062165
17 CHEM & PET PRD	0.00010311	0.00028939	0.00077974	0.00293561	0.04371409	0.00155119	0.00151021	0.00032545
18 PLELE & GL PRO	0.00000420	0.00000889	0.00000344	0.00009760	0.00024549	0.00005708	0.00016494	0.00000743
19 CL & STICE PRO	0.00027818	0.00010586	0.00004945	0.00477758	0.00745483	0.00079696	0.00072266	0.00005665
20 METAL PRD	0.00046649	0.00017894	0.00015226	0.00516339	0.00765919	0.00203384	0.00314527	0.00016398
21 MACH & EQUIP	0.00012609	0.00097844	0.00011168	0.00110401	0.01057016	0.00280229	0.00276366	0.00313424
22 ELECT PRD	0.00010244	0.00070377	0.00002750	0.00055212	0.00043935	0.00075759	0.00027246	0.00006835
23 TRANS EQUIP	0.00001746	0.00001559	0.00001613	0.00018879	0.00012208	0.00004372	0.00003337	0.00002503
24 OTH MFR	0.00012406	0.00014347	0.00003487	0.00153305	0.02331891	0.00353555	0.02468701	0.00006783
25 RR TRANSPOR	0.00019669	0.00102413	0.00330493	0.00227658	0.00103666	0.00139244	0.00116031	0.00027308
26 LG INTER TRAN	0.00000463	0.00002031	0.00000646	0.00075289	0.03734097	0.00095866	0.00044464	0.00007678
27 L & D TRCK. STR	0.00048461	0.00127827	0.00027845	0.00519718	0.00289818	0.00523395	0.00283846	0.00342453
28 OTHER TRANS	0.00035258	0.00140955	0.00022493	0.00168865	0.00319034	0.00678687	0.00091229	0.00019934
29 TELE & TELEG	0.00680883	0.00674926	0.01325889	0.01448690	0.00904758	0.01258303	0.01383074	0.00804268
30 RADIO & TV BRC	0.00397321	0.00096363	0.00012222	0.04349884	0.00657041	0.02493095	0.00097583	0.00011069
31 OTH COMM	0.00000057	0.00000292	0.00000052	0.00001488	0.00000757	0.00000678	0.00000390	0.00000159
32 GAS SERVICES	0.00165972	0.00308740	0.00080286	0.05981254	0.00534690	0.01642003	0.01503616	0.00125717
33 ELEC SER	0.00362603	0.00691954	0.00121926	0.11792159	0.00852760	0.03095643	0.05018250	0.00388367
34 WAT & SAN SER	0.00110017	0.00177310	0.00040591	0.05620394	0.00304201	0.01537134	0.01495937	0.00063681
35 WHL AUT PTCS	0.00018341	0.00616118	0.00009600	0.00109189	0.00151937	0.00304510	0.00105573	0.00014288
36 WHL GROC	0.00010177	0.00071784	0.00018240	0.01773358	0.00031600	0.00153786	0.01095166	0.00129784
37 WHL FARM PRD	0.00000688	0.00000744	0.00000225	0.00003258	0.00002804	0.00001003	0.00002580	0.00000855
38 WHL MAC. EQ. S	0.00007770	0.00026118	0.00002543	0.00511390	0.00048705	0.00161355	0.00044195	0.00014438
39 WHL PFT PRD	0.00009001	0.00015195	0.00002005	0.00101843	0.00091547	0.00279724	0.00018962	0.00005175
40 GEN WHL	0.01043773	0.01042857	0.00096376	0.01732930	0.00509800	0.00974740	0.00754546	0.00688756
41 LUMBER YARDS	0.00044592	0.02578047	0.00030147	0.00216919	0.00060394	0.00060539	0.00364773	0.00021512
42 FEQ. HT. P. W. E	0.00001366	0.00002098	0.00001316	0.00011202	0.00007268	0.00011855	0.01742178	0.00001432
43 DEPT & CLOTHST	0.00000146	0.00000353	0.00000058	0.00001371	0.00000692	0.00001379	0.00000750	0.00000371
44 FOOD STORES	0.000001700	0.00005126	0.00001781	0.00016998	0.00011380	0.00038313	0.00005561	0.00003746
45 AUT DLGRP. GS	0.00176212	0.00466450	0.00091817	0.01737288	0.01194488	0.04063207	0.01120904	0.01110671
46 FURN. HN FREQ	0.00000180	0.00000032	0.00000043	0.00001860	0.00000744	0.00001516	0.00030844	0.00000627
47 EAT & DRINK PL	0.00271022	0.00843895	0.00282563	0.02778725	0.01858989	0.06573473	0.00862431	0.00061621
48 OTH RETAIL	0.00012040	0.00031561	0.00111735	0.00073655	0.00275765	0.00176380	0.00202427	0.00197232
49 BANK & CRF AGE	1.02740958	0.30264766	0.00322606	0.00573337	0.00719619	0.01771424	0.00472062	0.00477370
50 OTHER F. I. R. E.	0.01740157	1.05043372	0.01216796	0.08013974	0.02220128	0.02401756	0.13858193	0.00867454
51 LEGAL SER	0.00298207	0.00995408	1.00016943	0.00267546	0.00493060	0.00255596	0.00179432	0.00072730
52 LODGING SER	0.000007249	0.00412747	0.00016123	1.01742264	0.00028476	0.00020815	0.00063607	0.00003693
53 PERSONAL SER	0.00010961	0.00052546	0.00015046	0.02012006	1.00178054	0.00259478	0.01189033	0.00204335
54 OTH BUS SER	0.02345433	0.03169903	0.00244760	0.14475487	0.00776115	1.04488724	0.03048804	0.00174069
55 AMUSEMENT	0.00017956	0.000957610	0.00066841	0.00192945	0.00129490	0.00429958	1.00132247	0.00039090
56 MISC REP	0.00016076	0.00042907	0.00079885	0.00417210	0.00082813	0.00351267	0.01873539	1.00012158
57 PHYSICIAN	0.000002125	0.00121553	0.00001440	0.00001231	0.00003615	0.00003236	0.000017150	0.00001042

58 HOSPEMED SER	0.00000023	0.00001280	0.00000016	0.00000122	0.00000074	0.00000036	0.00000182	0.00000011
59 ELEM&SEC SCH	0.00000034	0.00000038	0.00000008	0.00000317	0.00004603	0.00000666	0.00004844	0.00000022
60 COLLEUNIV	0.00004104	0.00008370	0.00006672	0.00016042	0.00004630	0.00007184	0.00021959	0.00006075
61 OTH SERVICES	0.00417089	0.00850732	0.00678186	0.01630367	0.00470482	0.00730138	0.02231898	0.00617484
TOTAL	1.12284949	1.21039999	1.05812658	1.88100728	1.33475782	1.41090620	1.46211210	1.07980555

INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	57	58	59	60	61
1 IRP CROPS	0.00000855	0.00033263	0.00175492	0.00011170	0.00000561
2 DRYLAND CRDP	0.00003779	0.00119293	0.00500718	0.00052781	0.00009412
3 LIVESTOCK	0.00012443	0.00737723	0.01517135	0.00023894	0.00018668
4 OTHER AGRI	0.00003204	0.00284638	0.01820929	0.00003569	0.00001311
5 CR. PETEN. GAS	0.00116050	0.00203580	0.00279146	0.00454916	0.00861870
6 N. GAS LIQ	0.00006443	0.00040162	0.00012189	0.00025249	0.00017870
7 OIL&GAS FLSV	0.00019291	0.00034661	0.00046309	0.00075622	0.00142420
8 CONSTRUCTION	0.01153141	0.00586217	0.01112931	0.00128407	0.00243588
9 MEAT PROD	0.00011715	0.01103032	0.02286488	0.00004941	0.00005322
10 DAIRIES	0.00003821	0.00363001	0.03114733	0.00001205	0.00000367
11 MILLING&FEED	0.00001310	0.00102259	0.00543399	0.00119370	0.00002198
12 FOOD PROCESS	0.00027837	0.00750130	0.04048131	0.00097563	0.00004419
13 BEVERAGES	0.00005673	0.00011519	0.00007998	0.00015559	0.00452444
14 TEXTILE PROD	0.00024107	0.00071039	0.00085946	0.00104991	0.00076908
15 WOOD& PAPER. PROD	0.000086380	0.00157859	0.00530799	0.03098609	0.00493482
16 PRNT&PUBS	0.00245285	0.00169618	0.00086401	0.00635704	0.04757244
17 CHEM&PET PRO	0.00117664	0.01677074	0.00122986	0.00617526	0.00201014
18 PL&LE&GL PRO	0.00000759	0.00007097	0.00014088	0.00077275	0.00005796
19 CL&ST&CE PRO	0.00043811	0.00043466	0.00041907	0.00061615	0.00078876
20 METAL PROD	0.00068493	0.00056942	0.00072292	0.00446646	0.00055865
21 MACH&EQUIP	0.00017091	0.00043090	0.00015198	0.000840040	0.00316331
22 ELECT PROD	0.00003362	0.00006752	0.00006604	0.01213116	0.00027260
23 TRANS EQUIP	0.00002207	0.00003632	0.00012627	0.00220394	0.00006463
24 OTH MFR	0.00015718	0.00068421	0.00006771	0.02441499	0.00072093
25 RR TRANSPOR	0.00015872	0.00063216	0.00032899	0.00196279	0.00241522
26 LGINTER TRAN	0.00019813	0.00105582	0.00012290	0.00006382	0.00021611
27 LGDTRCK, STR	0.00033814	0.00179828	0.00927232	0.00397645	0.00608125
28 OTHER TRANS	0.00032065	0.00083620	0.00011884	0.00318800	0.00302453
29 TRFLEP&TELEG	0.01465631	0.01407218	0.00260827	0.02189341	0.01017381
30 RADIO&TV ARC	0.00012705	0.00042847	0.00020483	0.00314944	0.00120509
31 OTH COMM	0.00000097	0.00000061	0.00000063	0.00000709	0.00001062
32 GAS SERVICES	0.00242565	0.00292367	0.00598876	0.00935678	0.01869722
33 ELEC SER	0.00925793	0.00675970	0.01249976	0.02233330	0.03483281
34 WATER&SAN SER	0.00103532	0.00156189	0.00173214	0.00723599	0.01740318
35 WHL AUT PT&S	0.00014033	0.00019815	0.00033977	0.00094115	0.00055624
36 WHL GROC	0.00022207	0.00730752	0.00100381	0.00017771	0.00957052
37 WHL FARM PRO	0.00000695	0.00044710	0.00181222	0.00001537	0.00002706
38 WHL MAC, EQ, S	0.00016859	0.00231884	0.00314992	0.00025860	0.00094558
39 WHL PET PROD	0.00004663	0.00016097	0.00039284	0.00026362	0.00030452
40 GEN WHL	0.00241205	0.00677494	0.00896346	0.00146193	0.00783298
41 LUMBER YARDS	0.00046837	0.00031808	0.00031972	0.00298142	0.00067150
42 FEQ, HT, P, W, E	0.00001535	0.00054442	0.00239250	0.00010249	0.00013674
43 DEPT&CLOTHST	0.00000076	0.00000344	0.00000404	0.00000193	0.00002749
44 FOOD STORES	0.00001999	0.00004532	0.00001162	0.00001889	0.00059592
45 AUT OLERP, GS	0.00113731	0.00204535	0.00233475	0.00222317	0.05911927
46 FJRN, MN FEEQ	0.00000230	0.00000134	0.00000224	0.00000392	0.00000318
47 EAT&DRINK PL	0.00179417	0.00310145	0.00177051	0.00304159	0.10205593
48 OTH RETAIL	0.00022438	0.00018363	0.00020036	0.00015823	0.01346190
49 BANK&CRP AGE	0.00581628	0.02451054	0.00134637	0.00243362	0.02317722
50 OTHER F. I. R. E.	0.01792066	0.01113878	0.00898038	0.11651692	0.02691682
51 LEGAL SER	0.00276925	0.00086182	0.00033229	0.00479357	0.00274950
52 LOGGING SER	0.00017657	0.00006468	0.00004563	0.00052477	0.00025021
53 PERSONAL SER	0.00528597	0.02787635	0.00056358	0.00151769	0.00573830
54 OTH BUS SER	0.00166845	0.00399151	0.00385915	0.03128725	0.03521498
55 AMUSMENT	0.00012306	0.00020955	0.00011650	0.00158523	0.00668136
56 MISC REP	0.00286526	0.00315189	0.00055022	0.00053005	0.00285004
57 PHYS&DENTIST	1.00134757	0.02647277	0.00030833	0.00015070	0.00003543

58 HOSP&MED SER	0.01053959	1.00422686	0.00000641	0.00000170	0.00000039
59 ELEMG SEC SCH	0.00000033	0.00000141	1.00019025	0.00004794	0.00000149
60 COLGUNIV	0.00000693	0.00004293	0.00000771	1.00003554	0.01020967
61 DTH SERVICES	0.00706674	0.00436338	0.00078321	0.00359659	1.03773469
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TOTAL	1.11073180	1.22717668	1.23727741	1.35573426	1.51944660
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APPENDIX D

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	1	2	3	4	5	6	7	8
1 IRR CROPS	1.00700696	0.00569263	0.01200877	0.04828073	0.00373543	0.00277182	0.00378666	0.00313646
2 DRYLAND CROP	0.00505516	1.02782298	0.07947412	0.09549666	0.00466572	0.00343259	0.00465825	0.00420835
3 LIVESTOCK	0.01675311	0.01687657	1.09738944	0.01605454	0.01495360	0.01111843	0.01515387	0.01391940
4 OTHER AGRI	0.02599677	0.05288419	0.03844356	1.14153190	0.01348015	0.01000168	0.01366264	0.01131900
5 CR. PETEN. GAS	0.02401166	0.01148826	0.00684607	0.01164559	1.00928060	0.23110864	0.00615316	0.00609296
6 N. GAS LIQ	0.00244945	0.00303838	0.00113942	0.00169912	0.00077731	1.00072842	0.00679032	0.00400579
7 OIL&GAS FLSV	0.00402324	0.00197790	0.00115961	0.00196577	0.16620726	0.06646852	1.09119815	0.00111699
8 CONSTRUCTION	0.04754430	0.04465230	0.04307339	0.07630425	0.04439368	0.05770714	0.03761770	1.38458480
9 MEAT PROD	0.02052823	0.02045735	0.01710037	0.01841817	0.01834452	0.01361207	0.01859834	0.01535596
10 DAIRIES	0.01425168	0.01433856	0.01181358	0.01278630	0.01274209	0.00945462	0.01291714	0.01066169
11 MILLING&FEED	0.00807297	0.01520684	0.04862060	0.30781866	0.00459300	0.00340863	0.00465521	0.00390258
12 FOOD PROCESS	0.02488283	0.02519273	0.06550504	0.02892783	0.02218733	0.01646397	0.02249301	0.01862553
13 BEVERAGES	0.01183716	0.01199384	0.00982900	0.01077654	0.01040242	0.00772486	0.01068720	0.00902929
14 TEXTILE PROD	0.00097463	0.00103529	0.00149353	0.00602582	0.00073989	0.00066342	0.00071810	0.00773230
15 WOOD& PAPER PROD	0.00899785	0.01047615	0.02123934	0.02296135	0.00427951	0.00372410	0.00433781	0.02727508
16 PRINT&PUBS	0.01500953	0.01557551	0.01272874	0.01515271	0.01230593	0.00900552	0.01776161	0.01279801
17 CHEM&PET PRO	0.07956305	0.10754050	0.02087218	0.03507585	0.00407612	0.00610626	0.00478343	0.00407219
18 PL&LEGL PRO	0.00045610	0.00051253	0.00179941	0.00039379	0.00027734	0.00028475	0.00028475	0.00036328
19 CLEST&CE PRO	0.00253492	0.00246153	0.00222538	0.00338662	0.00228108	0.00246666	0.00211444	0.04407685
20 METAL PROD	0.00360953	0.00350396	0.00719285	0.00625695	0.00329631	0.00380704	0.00299505	0.07675902
21 MACH&EQUIP	0.00278225	0.00319494	0.00233018	0.00282992	0.00251197	0.00189490	0.00367689	0.00275705
22 ELECT PROD	0.00065667	0.00066546	0.00058194	0.00066205	0.00056800	0.00042376	0.00070752	0.00101392
23 TRANS EQUIP	0.00045512	0.00045557	0.00050054	0.00048346	0.00040625	0.00034159	0.00040912	0.00250896
24 OTH MFG	0.00174636	0.00177864	0.00161293	0.00247060	0.00153967	0.00118704	0.00160110	0.00372287
25 RR TRANSPOR	0.00345953	0.00359110	0.00318116	0.00349912	0.00256456	0.00198055	0.00266482	0.00565830
26 LEINTER TRAN	0.00304716	0.00309697	0.00248052	0.00270280	0.00265427	0.00197082	0.00272894	0.00223420
27 LEIDTRCK, STR	0.01669844	0.01783247	0.01444727	0.04023471	0.01278058	0.01340309	0.01311524	0.01635619
28 OTHER TRANS	0.00637124	0.00650174	0.00528497	0.00584900	0.00544472	0.00406126	0.00571416	0.00512120
29 TELEP&TELEG	0.02325103	0.02336265	0.01976256	0.02570911	0.01766107	0.01734090	0.02060070	0.01713519
30 RADIO&TV BRC	0.00191607	0.00187918	0.00170609	0.00192236	0.00158379	0.00119283	0.00208956	0.00197207
31 OTH COMM	0.00018552	0.00018654	0.00015400	0.00016805	0.00016568	0.00012380	0.00016781	0.00018776
32 GAS SERVICES	0.04519030	0.01505052	0.01276316	0.02190725	0.01110203	0.00856739	0.01233204	0.01102579
33 ELEC SER	0.04774894	0.03127256	0.02754235	0.04465472	0.02120892	0.01791077	0.02258030	0.02127797
34 WAT&SAN SER	0.00590503	0.00629994	0.00491921	0.00681516	0.00426317	0.00317189	0.00497687	0.00577740
35 WHL AUT P&CS	0.00321112	0.00474712	0.00258519	0.00403054	0.00162446	0.00122218	0.00289363	0.00169136
36 WHL GROC	0.03369137	0.03406203	0.02798908	0.03041846	0.03009539	0.02234130	0.03097184	0.02563642
37 WHL FARM PRO	0.01635148	0.01127173	0.03868868	0.08121642	0.00210077	0.00155815	0.00212772	0.00180575
38 WHL MAC, F&S	0.00074836	0.00074161	0.00144200	0.00079261	0.00336948	0.00302291	0.01829528	0.00359006
39 WHL PET PROD	0.00867014	0.01798174	0.00884232	0.01023722	0.00371241	0.00268046	0.00620180	0.00477480
40 GEN WHL	0.04145649	0.04704186	0.03543602	0.03615544	0.01397866	0.01155704	0.01376998	0.08729351
41 LUMBER YARDS	0.00295288	0.00287202	0.00674854	0.00429782	0.00195049	0.00144338	0.00181002	0.00525779
42 FEQ, HT, P, W, E	0.06531537	0.08801930	0.04155855	0.10817945	0.00535878	0.00397988	0.00543235	0.00483140
43 DEPT&CLOTHST	0.03127535	0.03147255	0.02594417	0.02819776	0.02796082	0.02074572	0.02836246	0.02339469
44 FOOD STORES	0.02300696	0.02315877	0.01907242	0.02066000	0.02054652	0.01524533	0.02084597	0.01723639
45 AUT DLGRP, GS	0.08100104	0.10930091	0.07189455	0.08072791	0.05057380	0.03975594	0.05930177	0.04776461
46 FURN, HH F&EQ	0.00919336	0.00924881	0.00762123	0.00825457	0.00821989	0.00610387	0.00833146	0.00713417
47 EAT&DRINK PL	0.02158633	0.02366101	0.01817081	0.02272468	0.01524797	0.01146862	0.01869243	0.02007436
48 OTH RETAIL	0.02703552	0.02726810	0.02339565	0.02442887	0.02555036	0.01818871	0.02513865	0.02044736
49 BANKE&CRE AGE	0.07656777	0.06538402	0.06108754	0.06559674	0.05472338	0.03671120	0.06437452	0.05500274
50 OTHER F. I. P. E.	0.07383537	0.07100846	0.08044229	0.10560907	0.04741164	0.03259865	0.04196118	0.05897070
51 LEGAL SER	0.00923782	0.00922061	0.00786831	0.00911933	0.00819939	0.00583910	0.00829845	0.00890646
52 LODGING SER	0.00170579	0.00173348	0.00146703	0.00167802	0.00140276	0.00103275	0.00140954	0.00126478
53 PERSONAL SER	0.02010900	0.02029008	0.01670555	0.01817476	0.01799813	0.01330228	0.01925437	0.01532328
54 OTH BUS SER	0.02125450	0.02216573	0.02330320	0.02749514	0.01683882	0.01312456	0.02374426	0.02339762
55 AMUSEMENT	0.00663164	0.00680709	0.00550118	0.00615834	0.00564474	0.00419891	0.00593185	0.00519971
56 MISC REP	0.01323179	0.00869229	0.00743975	0.01455909	0.00601600	0.00443569	0.00776722	0.00863851
57 PHYS&DENTIST	0.02241027	0.02253923	0.01891941	0.02019910	0.02038150	0.01500728	0.02273436	0.01688739

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58 HOSP&MED SFR	0.02311096	0.02325198	0.01916007	0.02073485	0.02066627	0.01533309	0.02097172	0.01728514
59 ELEM&SFC SCH	0.04034440	0.04059021	0.03344213	0.03619757	0.03607131	0.02676483	0.03656643	0.03017816
60 COL&UNIV	0.01889080	0.01900863	0.01566050	0.01698952	0.01698708	0.01252669	0.01713441	0.01421247
61 OTH SERVICES	0.01870873	0.01910336	0.01568882	0.02100243	0.01643089	0.01184127	0.01823904	0.02255945
62 HOUSEHOLDS	0.96349842	0.96935730	0.79864170	0.86440048	0.86144137	0.63918527	0.87326394	0.72057211
TOTAL	3.15897678	3.23818640	3.03593286	3.70910369	2.77807907	2.52477400	2.76755858	3.02203697

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	9	10	11	12	13	14	15	16
1 IRR CROPS	0.01186456	0.02461614	0.082713107	0.02731642	0.00288725	0.00585369	0.00289512	0.00338627
2 DRYLAND CROP	0.05609025	0.04741051	0.18319076	0.06795560	0.00950488	0.03005203	0.01208964	0.00484681
3 LIVESTOCK	0.67446026	0.01447041	0.01219557	0.01370864	0.00938321	0.21461686	0.01161902	0.01359628
4 OTHER AGRI	0.09936527	0.54772427	0.015339605	0.01503277	0.00867560	0.02058204	0.01071819	0.01223981
5 CP.PETCN.GAS	0.00741268	0.00940581	0.00664803	0.00662598	0.00517490	0.01020709	0.00503503	0.00664311
6 N.GAS LIQ	0.00128900	0.00116207	0.00096446	0.00099510	0.00050723	0.00099172	0.00092340	0.00098177
7 OIL&GAS FLSV	0.00125717	0.00158173	0.00112203	0.00111927	0.00086649	0.00170883	0.00085527	0.00112171
8 CONSTRUCTION	0.04225698	0.04945503	0.02013034	0.02787554	0.01838098	0.03610304	0.02664080	0.02764414
9 MEAT PROD	1.02323764	0.01714479	0.01061644	0.01686434	0.01154870	0.02103845	0.01424672	0.01663708
10 OATRIES	0.01287699	1.04427947	0.00737134	0.01158381	0.00800211	0.01460279	0.00982711	0.01154668
11 MILLING&FEED	0.05043855	0.14813000	1.09318121	0.00534566	0.00293882	0.01345767	0.00363192	0.00416998
12 FOOD PROCESS	0.04019439	0.02389042	0.01302722	1.04016554	0.01818027	0.03361804	0.01715520	0.02011153
13 BEVERAGES	0.01064158	0.00997147	0.00611397	0.00950816	1.00659046	0.01192393	0.00809049	0.00958487
14 TEXTILE PROD	0.00156262	0.00320447	0.01837826	0.00063517	0.00044390	1.00153302	0.00067951	0.00080617
15 WOOD& PAPER PROD	0.02165182	0.01286824	0.00394203	0.02183510	0.00534715	0.01243592	1.09235356	0.09034418
16 PRNT&PUBS	0.01333191	0.01380018	0.00792710	0.01351257	0.00857731	0.01474816	0.01098218	1.02787195
17 CHEM&PET PRO	0.01699883	0.01861668	0.02724055	0.01262482	0.00359482	0.00887242	0.00578892	0.01081665
18 PL&LEGL PRO	0.00148607	0.00031559	0.00021533	0.00286517	0.00306457	0.00061160	0.00190852	0.00041217
19 CLOST&CE PRO	0.00226754	0.00247550	0.00121466	0.00171273	0.00127169	0.00222936	0.00156840	0.00189518
20 METAL PROD	0.00572020	0.00419592	0.00173279	0.00238305	0.00205822	0.00881048	0.00357394	0.00367141
21 MACH&EQUIP	0.00243489	0.00245859	0.00145941	0.00202569	0.01407478	0.00256123	0.00337548	0.00459001
22 ELECT PROD	0.00061424	0.00070996	0.00035608	0.00050477	0.00034330	0.00063690	0.00051768	0.00055118
23 TRANS EQUIP	0.00048116	0.00040567	0.00022819	0.00300096	0.00034461	0.00046375	0.00040051	0.00037477
24 OTH MFG	0.00171890	0.00198334	0.00090316	0.00146595	0.00105966	0.00182227	0.00166996	0.00288274
25 RR TRANSPOR	0.00324912	0.00288549	0.00169479	0.00281627	0.00286777	0.00317712	0.02407618	0.00418543
26 LGINTER TRAN	0.00270031	0.00256374	0.00157055	0.00244358	0.00165122	0.00349263	0.00205809	0.00311700
27 LGDTRCK,STR	0.02952428	0.02501696	0.00925526	0.03068684	0.01054094	0.01938422	0.05089950	0.03204224
28 OTHER TRANS	0.00566806	0.00575466	0.00329698	0.00509804	0.00683281	0.00452214	0.00565556	0.00565556
29 TELEP&TELEG	0.02125256	0.02131273	0.01406342	0.01958978	0.01251079	0.02135518	0.02003073	0.02231073
30 RADIO&TV BRC	0.00173111	0.00221452	0.00097539	0.00186685	0.00178132	0.00185765	0.00158117	0.00253955
31 OTH COMM	0.00016756	0.00015565	0.00009584	0.00015084	0.00010263	0.00018944	0.00012788	0.00037203
32 GAS SERVICES	0.01424295	0.01856674	0.01192689	0.01301663	0.01080980	0.02118698	0.01010513	0.01319905
33 ELEC SER	0.02969256	0.03672103	0.01877469	0.02434976	0.01903996	0.04600832	0.02130069	0.02584646
34 WATERAN SER	0.00519875	0.00597233	0.00424397	0.00449475	0.00638748	0.00629049	0.00430116	0.00615279
35 WHL AUT PDES	0.00264604	0.00392121	0.00174650	0.00189713	0.00114684	0.00196866	0.00199336	0.00180438
36 WHL GROC	0.03043073	0.02834514	0.01745275	0.02335159	0.03946807	0.03430825	0.02337507	0.02761383
37 WHL FARM PROD	0.02953845	0.03949103	0.00401667	0.00319935	0.00137669	0.00919722	0.00169609	0.00191071
38 WHL MAC,EQ,S	0.00145179	0.00160629	0.00040370	0.00056091	0.00049297	0.00109572	0.00048777	0.00144602
39 WHL PET PROD	0.00750015	0.00753434	0.00483560	0.00430325	0.00232438	0.00501955	0.00305397	0.00329066
40 GEN WHL	0.02913683	0.02355084	0.01578858	0.01468865	0.00871970	0.01934229	0.01267603	0.01363292
41 LUMBER YARDS	0.00520580	0.00299140	0.00195214	0.00181776	0.00116264	0.00305197	0.00228632	0.00185210
42 FEQ,HT,P,V,E	0.03406240	0.05377616	0.02237962	0.01140300	0.00389788	0.01369079	0.00481788	0.00495302
43 DEPT&CLOTHST	0.02827670	0.02619639	0.01667466	0.02540516	0.01938080	0.03203698	0.02156205	0.02539483
44 FOOD STORES	0.02077927	0.01922717	0.01189751	0.01867594	0.01275647	0.02354074	0.01585337	0.01884284
45 AUT DL&PP,GS	0.06760218	0.06234339	0.04540191	0.04893925	0.03882952	0.06125397	0.04170245	0.04743738
46 FURN,HN F&EQ	0.00830640	0.00768105	0.00475418	0.00746704	0.00509517	0.00941541	0.00633910	0.00744739
47 EAT&DRINK PL	0.01821364	0.02006705	0.01088231	0.01511906	0.01264171	0.01765641	0.01324425	0.01736149
48 OTH RETAIL	0.02437993	0.02274134	0.01401411	0.02187472	0.01501680	0.02747521	0.01870292	0.02343686
49 BANK&CRE AGE	0.05876169	0.05252635	0.03129151	0.04357784	0.02914157	0.06354011	0.05231567	0.04349585
50 OTHER F.I.R.E.	0.07758158	0.07490195	0.05829238	0.04491856	0.02823772	0.05884778	0.05142611	0.04617685
51 LEGAL SER	0.00848905	0.00814023	0.00536817	0.00809308	0.00558998	0.00937467	0.01263013	0.00894553
52 LODGING SER	0.00155220	0.00153017	0.00095332	0.00136745	0.00087205	0.00163077	0.00115294	0.00426402
53 PERSONAL SER	0.01828372	0.01847567	0.01042917	0.01692589	0.01124712	0.02046210	0.01408284	0.03522562
54 OTH BUS SER	0.02197060	0.04503808	0.01229426	0.03572377	0.04514146	0.02191140	0.01844979	0.05257292
55 AMUSEMENT	0.00589090	0.00565796	0.00340912	0.00521918	0.00371897	0.00648224	0.00446910	0.00781163
56 MISC REP	0.00892564	0.01357990	0.01010441	0.00709601	0.00428443	0.00898298	0.01112079	0.00696694
57 PHYS&DENTIST	0.02045687	0.01882185	0.01161288	0.02557411	0.01243625	0.02299056	0.01548270	0.01813712

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58 HOSP&MED SER	0.02088329	0.01940863	0.01195363	0.01885313	0.01281114	0.02367519	0.01593592	0.01872314
59 ELEMGSEC SCH	0.03645290	0.03369896	0.02086886	0.03277690	0.02236467	0.04143162	0.02782013	0.03268865
60 COLLEUNIV	0.01707695	0.01585730	0.00980617	0.01534079	0.01049453	0.01934304	0.01315292	0.01541150
61 OTH SERVICES	0.01776445	0.02363017	0.01327651	0.01451222	0.01266943	0.01823491	0.02579741	0.02600921
62 HOUSEHOLDS	0.87054470	0.80475433	0.49833909	0.78276246	0.53409974	0.98702121	0.66436692	0.78058811
TOTAL	3.71524648	3.57695080	2.45881155	2.66762334	2.10760399	3.16224289	2.48154223	2.68547339

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	17	18	19	20	21	22	23	24
1 IRR CROPS	0.00340563	0.00279551	0.00298501	0.00368056	0.00231035	0.00391732	0.00358173	0.00438027
2 DRYLAND CROP	0.00457512	0.00668995	0.00444734	0.00488785	0.00313701	0.00586174	0.00455406	0.00625115
3 LIVESTOCK	0.01378740	0.04743814	0.01204744	0.01480156	0.00929167	0.01572140	0.01442285	0.01774771
4 OTHER AGRI	0.01230567	0.01335282	0.01078875	0.01329352	0.00935014	0.01416621	0.01300976	0.01587260
5 CR. PETEN. GAS	0.05150834	0.00411408	0.00744326	0.00612232	0.00364093	0.00653795	0.00594957	0.00753860
6 N. GAS LIQ	0.02339360	0.00068749	0.00088443	0.00095552	0.00058975	0.00104827	0.00081252	0.00113453
7 OIL & GAS FLSV	0.00914545	0.00069693	0.00125728	0.00103522	0.00062284	0.00110628	0.00100271	0.00127350
8 CONSTRUCTION	0.02840603	0.02144556	0.03112758	0.02875316	0.01824992	0.03243659	0.02891350	0.03438400
9 MEAT PROD	0.01643477	0.06932292	0.01468622	0.01811618	0.01141927	0.01923922	0.01757493	0.02184345
10 DAIRIES	0.01160944	0.00741662	0.01016679	0.01255119	0.00787745	0.01335491	0.01220161	0.01497871
11 MILLING & FEED	0.00419696	0.00550793	0.00367835	0.00453084	0.00284554	0.00482577	0.00442910	0.00541011
12 FOOD PROCESS	0.02022806	0.01564936	0.01780550	0.02186147	0.01372077	0.02327347	0.02125219	0.02606899
13 BEVERAGES	0.00956848	0.00651677	0.00841130	0.01026090	0.00643597	0.01091715	0.01004925	0.01222535
14 TEXTILE PROD	0.00109849	0.00114766	0.00111625	0.00093961	0.00043544	0.00098049	0.00120513	0.00086881
15 WOOD & PAPER PROD	0.05033002	0.11036386	0.10022032	0.04937919	0.03999224	0.13705643	0.02107579	0.11282978
16 PRINT & PUBS	0.01317062	0.00951214	0.01126865	0.01253261	0.00873466	0.01372148	0.01312629	0.01509963
17 CHEM & PET PROD	1.08868925	0.00407566	0.00573237	0.00733592	0.00343841	0.00610874	0.00488016	0.01195534
18 PL & F & GL PROD	0.00230957	1.00041279	0.00103457	0.00108050	0.00151437	0.00050321	0.00038386	0.00587233
19 CLOST & CFC PROD	0.00175300	0.00133073	1.10627472	0.00471048	0.00122339	0.00208524	0.00187488	0.00247359
20 METAL PROD	0.00252169	0.00287431	0.01420421	1.01539923	0.03471951	0.00355661	0.00697598	0.0550737
21 MACH & EQUIP	0.00324944	0.00154490	0.00447863	0.00215475	1.00596063	0.00321976	0.01649669	0.00267534
22 ELCT PROD	0.00055822	0.00041959	0.00068012	0.00065500	0.00034889	1.00227389	0.00062038	0.00406019
23 TRANS EQUIP	0.00037355	0.00028118	0.00056297	0.00038622	0.00741614	0.00044828	1.03134204	0.00045596
24 OTH MEGR	0.00147415	0.00103116	0.00148486	0.01082505	0.00129167	0.00204914	0.00182293	1.01781806
25 RR TRANSPOR	0.00539099	0.00995592	0.05877399	0.00455469	0.00242089	0.01256815	0.00290705	0.00532563
26 LGINTER, TRAN	0.00356919	0.00205095	0.00225054	0.00261468	0.00164144	0.00329068	0.00268504	0.00312827
27 LCLDTRCK, STR	0.02430660	0.03381992	0.03871078	0.02358686	0.02391722	0.04618540	0.01466001	0.03132597
28 OTHER TRANS	0.00674797	0.00355186	0.00535865	0.00815620	0.00350486	0.00596468	0.00739795	0.00658746
29 TELEPHONE	0.02621174	0.01723613	0.01969122	0.01888028	0.01731645	0.02670837	0.02327526	0.02511920
30 RADIO & TV REC	0.00181087	0.00119998	0.00222263	0.00156299	0.00104060	0.00175611	0.00198081	0.00194298
31 OTH COMM	0.00015097	0.00010316	0.00013248	0.00010298	0.00016279	0.00062389	0.00024950	0.00019501
32 GAS SERVICES	0.01408640	0.00834490	0.01551193	0.01231121	0.00749134	0.01330880	0.01220990	0.01498804
33 ELEC SER	0.03321864	0.01752871	0.02512289	0.02534468	0.01497731	0.02702720	0.02571098	0.02854403
34 WATER & SAN SER	0.00475226	0.00534719	0.00399057	0.00515957	0.00276285	0.00551247	0.00497435	0.00603343
35 WHL AUT PIES	0.00171800	0.00149012	0.00221501	0.00168490	0.00119149	0.00218913	0.00169631	0.00206518
36 WHL GROC	0.02787334	0.01866433	0.02765560	0.02952741	0.01852656	0.03139868	0.02881588	0.03522408
37 WHL FARM PROD	0.00192117	0.00289650	0.00188562	0.00207233	0.00130165	0.00221142	0.00202086	0.00247608
38 WHL MAC. EQ. S	0.0018863	0.01166176	0.01109463	0.00120155	0.00119122	0.00073210	0.00600784	0.00081389
39 WHL PET PROD	0.0015059	0.00254711	0.00343537	0.00344049	0.00218569	0.00376041	0.00343678	0.00400200
40 GEN WHL	0.01735464	0.01662289	0.01220189	0.01602437	0.00848378	0.01669848	0.01851534	0.01643920
41 LUMBER YARDS	0.00201543	0.00166485	0.00205066	0.00192586	0.00129689	0.00255876	0.00200907	0.00244365
42 FEQ, HT, P, W, E	0.00492248	0.00505209	0.0043442	0.00532112	0.00336774	0.00526608	0.00526686	0.00689108
43 DEPT. CLOTHST	0.02547294	0.01737169	0.02230344	0.02755178	0.01729090	0.02930244	0.02679917	0.03272903
44 FOOD STORES	0.01873390	0.01277191	0.01640438	0.02023795	0.01270180	0.02153616	0.01968791	0.02405675
45 AUT DLGRP, GS	0.04931245	0.03262553	0.04239072	0.04859048	0.03056991	0.05189873	0.04833498	0.05832542
46 FURN, HN & EQ	0.00748717	0.00510589	0.00684145	0.00809483	0.00508035	0.00872227	0.00787384	0.00967512
47 EAT & DRINK PL	0.01653448	0.01062692	0.01460342	0.01535288	0.00953045	0.01628389	0.01664289	0.01893279
48 OTH RETAIL	0.02210823	0.01495485	0.01919709	0.02372374	0.01490908	0.02641483	0.02331591	0.02835930
49 BANK & CRE AGE	0.04322261	0.03097149	0.04486986	0.04750080	0.02876729	0.04985281	0.04495856	0.05519289
50 OTHER F. I. P. E.	0.05257944	0.04092955	0.05678430	0.04752963	0.03321979	0.06696483	0.05029089	0.05543685
51 LEGAL SER	0.00801363	0.00848518	0.00883453	0.00922014	0.00766303	0.01128685	0.00820025	0.01032921
52 LODGING SER	0.00195049	0.00135127	0.00150472	0.00140595	0.00093967	0.00154538	0.00265848	0.00342450
53 PERSONAL SER	0.01653416	0.01124255	0.01784087	0.01763000	0.01109940	0.03247310	0.02091593	0.02136499
54 OTH BUS SER	0.03017306	0.01543535	0.01962931	0.01852880	0.01416496	0.01620912	0.03079939	0.02349705
55 AMUSEMENT	0.00567154	0.00358889	0.00466922	0.00558437	0.00442303	0.00594152	0.00555330	0.00669749
56 MISC REPT	0.01071345	0.00553094	0.01276526	0.00615941	0.00512855	0.00681318	0.00695400	0.00884544
57 PHYSICIAN	0.01826049	0.01246125	0.01619346	0.01971200	0.01237730	0.02099443	0.01950029	0.02364435

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58 HOSP&MED SER	0.01883456	0.01283766	0.01648853	0.02035198	0.01277416	0.02165635	0.01981951	0.02419087
59 ELEM&SEC SCH	0.03286465	0.02241100	0.02878117	0.03554764	0.02230065	0.03780701	0.03454124	0.04421767
60 COL&UNIV	0.01549039	0.01051454	0.01349234	0.01668636	0.01044725	0.01773616	0.01625904	0.01991738
61 OTH SERVICES	0.02560365	0.01251975	0.01498401	0.02156976	0.01085044	0.02097171	0.01734101	0.03432151
62 HOUSEHOLDS	0.78485688	0.53520597	0.68732783	0.84849919	0.53255996	0.90287186	0.82488328	1.00845089
TOTAL	2.75977143	2.30182063	2.67570634	2.66925850	2.10317587	2.89990798	2.64668712	3.10390307

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	25	26	27	28	29	30	31	32
1 IRR CROPS	0.00443673	0.00474710	0.00473190	0.00423803	0.00246376	0.00340712	0.00392632	0.00347311
2 ORYLAND CROP	0.00557580	0.00586023	0.00583209	0.00526123	0.00302877	0.00421279	0.00488217	0.00430617
3 LIVESTOCK	0.01771902	0.01902161	0.01899175	0.01698730	0.00985021	0.01365909	0.01573943	0.01391722
4 OTHER AGRI	0.01586460	0.01712365	0.01707311	0.01529305	0.00888942	0.01229375	0.01416807	0.01253233
5 CR. PETEN. GAS	0.00907265	0.01091503	0.01382449	0.02238394	0.00460751	0.00679988	0.00786890	0.46216990
6 N. GAS LIQ	0.00226532	0.00100999	0.00779820	0.03072699	0.00051327	0.00078010	0.00087112	0.00073354
7 OIL & GAS FLSV	0.00155820	0.00182591	0.00249772	0.00455814	0.00077323	0.00114180	0.00132040	0.07612037
8 CONSTRUCTION	0.16152390	0.05967994	0.06813186	0.04985020	0.01898911	0.04113838	0.03172886	0.03619328
9 MEAT PROD	0.02158630	0.02330844	0.02323840	0.02082305	0.01209988	0.01673821	0.01928329	0.01705605
10 DAIRIES	0.01498894	0.01618794	0.01613996	0.01445567	0.00840467	0.01162152	0.01339236	0.01184698
11 MILLING & FEED	0.00541007	0.00583548	0.00581920	0.00521147	0.00302852	0.00418985	0.00482829	0.00427064
12 FOOD PROCESS	0.02788124	0.02820017	0.02810736	0.02517422	0.01463593	0.02023924	0.02332257	0.02062992
13 BEVERAGES	0.01231906	0.01591616	0.01335420	0.01209700	0.00684696	0.00988719	0.01107908	0.00968712
14 TEXTILE PROD	0.00149908	0.00105267	0.00118676	0.00091666	0.00042172	0.00075678	0.00088418	0.00075860
15 WOOD & PAPER PROD	0.01056518	0.00566272	0.00593108	0.01033244	0.00276834	0.00605976	0.01073213	0.00397029
16 PRNT & PUBS	0.01659533	0.01678579	0.01825151	0.01714162	0.00969144	0.01485897	0.01399256	0.01201364
17 CHEM & PET PRO	0.03749383	0.00528408	0.00527406	0.01137974	0.00267800	0.000519223	0.00765585	0.00458496
18 PLE & EGL PRO	0.00044005	0.00036599	0.00035623	0.00046584	0.00018290	0.00031202	0.00031244	0.00025917
19 CLEST & CE PRO	0.00645815	0.00315170	0.00233209	0.01036514	0.00122311	0.00224488	0.00208434	0.00197271
20 MFTAL PROD	0.03641413	0.00443041	0.00485391	0.00466660	0.00163307	0.00272650	0.00279474	0.00279474
21 MACH & EQUIP	0.00859464	0.00315050	0.00304830	0.01939144	0.00131949	0.00219013	0.00233466	0.00212049
22 ELECT PROD	0.00419359	0.00073705	0.00685424	0.00567248	0.00036814	0.00629240	0.04701614	0.00052533
23 TRANS EQUIP	0.00488583	0.00052471	0.00053770	0.00196115	0.00025468	0.00115778	0.00215423	0.00037728
24 OTH MFGR	0.00262195	0.00205853	0.00200099	0.00565075	0.00100557	0.01041236	0.00184817	0.00143380
25 RR TRANSPOR	1.05218170	0.00359312	0.00371736	0.00366383	0.00276132	0.00277320	0.00353795	0.00272622
26 L & INTER TRAN	0.00347895	1.00337119	0.00236089	0.00302456	0.00174773	0.00243459	0.00281588	0.00246711
27 L & DTRCK, STR	0.02436037	0.01681245	1.01652882	0.01600179	0.00925901	0.01432761	0.01548232	0.01276234
28 OTHER TRANS	0.01789123	0.00720199	0.00724686	1.00676322	0.00427558	0.00566939	0.00594449	0.00508861
29 TELE & TELEG	0.02036074	0.03871556	0.03854330	0.02495133	1.01055631	0.03029466	0.03402389	0.01840003
30 RADIO & TV BRC	0.01304535	0.00293352	0.00219047	0.00354420	0.00105470	1.00359133	0.02574361	0.00204606
31 OTH COMM	0.00020124	0.00021086	0.00021093	0.00019103	0.00010926	0.00015459	1.00019487	0.00015399
32 GAS SERVICES	0.01559873	0.02302143	0.02603973	0.01948806	0.00962184	0.01409770	0.01620554	1.01746550
33 ELEC SER	0.02939489	0.04942942	0.07973830	0.03450132	0.02197521	0.03218171	0.04056695	0.02078209
34 WATER SAN SER	0.00878653	0.00933341	0.00693273	0.00596984	0.00371813	0.00743679	0.00836939	0.00426641
35 WHL AUT PTES	0.00389469	0.03315610	0.02080507	0.03556065	0.00102136	0.00161994	0.00188212	0.00147578
36 WHL GROC	0.03527402	0.03837498	0.03822319	0.03453029	0.01970461	0.02767420	0.03159103	0.02791849
37 WHL FARM PROD	0.00247500	0.00266654	0.00265941	0.00238159	0.00138327	0.00191501	0.00220653	0.00195237
38 WHL MAC, EQ, S	0.00108236	0.00090498	0.00091306	0.00164358	0.00038282	0.00073600	0.00069844	0.00182385
39 WHL PFT PROD	0.00457891	0.01915719	0.01369652	0.04198040	0.00219043	0.00326958	0.00348304	0.00343715
40 GEN WHL	0.03600906	0.03354939	0.02727313	0.01857808	0.00847314	0.02872032	0.04337243	0.01505791
41 LUMBER YARDS	0.00310147	0.00310626	0.00813679	0.00327480	0.00149229	0.00194133	0.00349247	0.00196544
42 FEQ, HT, P, W, E	0.00634332	0.00681294	0.00579666	0.00609056	0.00252883	0.00490911	0.00563777	0.00498855
43 DEPT & CLOTHST	0.03288851	0.03552363	0.03541325	0.03171761	0.01844031	0.02549959	0.02936645	0.02599531
44 FOOD STORES	0.02417933	0.02612945	0.02604175	0.02234367	0.01354917	0.01879046	0.02161379	0.01910434
45 AUT DLERP, GS	0.05979251	0.06677883	0.06471335	0.06234542	0.03191361	0.05002803	0.05337442	0.04973041
46 FURN, HH FEQ	0.00969073	0.01044357	0.01041416	0.00932871	0.00541992	0.00749911	0.00864172	0.00764152
47 EATEDRINK PL	0.01971655	0.02431630	0.02243484	0.02367465	0.00969088	0.02292367	0.01908333	0.01450442
48 OTH RETAIL	0.02828654	0.03069394	0.03059329	0.02746511	0.01578954	0.02239932	0.02544874	0.02304894
49 BANK & CRE AGE	0.05999938	0.14412701	0.05924749	0.05414515	0.02988809	0.04520768	0.18787269	0.05038896
50 OTHER F.I.R.E.	0.07788167	0.08548858	0.28973622	0.09696392	0.04065357	0.04966274	0.10979952	0.05076418
51 LEGAL SER	0.00967347	0.01620273	0.01735783	0.01285506	0.00549681	0.00954343	0.01387665	0.01111162
52 LODGING SER	0.00178401	0.00291899	0.00281291	0.00203984	0.00096545	0.00133353	0.00171462	0.00133212
53 PERSONAL SER	0.02981698	0.02283943	0.02276037	0.02058457	0.01179113	0.01674435	0.01952229	0.01669138
54 OTH BUS SER	0.02914650	0.04827296	0.02718595	0.09378181	0.01323937	0.10676738	0.02271573	0.01752141
55 AMUSEMENT	0.00677866	0.00749424	0.00736004	0.00684017	0.00370329	0.00605002	0.00614251	0.00772556
56 MISC REP	0.00729066	0.00765820	0.00757143	0.00742290	0.00372958	0.00680297	0.01457131	0.00866931
57 PHYS & DENTIST	0.02358825	0.02545009	0.02561396	0.02276002	0.01320806	0.01825827	0.02109928	0.01878015

58 HOSP&MED SER	0.02430617	0.02624958	0.02617478	0.02344103	0.01362904	0.01884399	0.02171746	0.01921272
59 ELEM&SEC SCH	0.04243254	0.04582488	0.04568981	0.04092856	0.02379270	0.03291432	0.03791233	0.03353737
60 COL&UNIV	0.01987082	0.02153010	0.02149752	0.01916307	0.01113073	0.01568167	0.01784253	0.01572706
61 OTH SERVICES	0.01995186	0.02869058	0.03174035	0.01919906	0.01002177	0.04352284	0.02678906	0.01794650
62 HOUSEHOLDS	1.01331835	1.09436730	1.09114372	0.97725767	0.56920894	0.79562557	0.90539692	0.80092662
TOTAL	3.24741561	3.31618743	3.43968322	3.15239127	2.06319549	2.68709290	3.05392120	3.05641265

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	33	34	35	36	37	38	39	40
1 IRR CROPS	0.00418830	0.00313415	0.00513983	0.00461182	0.00499487	0.00404839	0.00460382	0.00504173
2 DRYLAND CROP	0.00515828	0.00394216	0.00632762	0.00571345	0.00618588	0.00505958	0.00568186	0.00623587
3 LIVESTOCK	0.01677610	0.01281270	0.02057965	0.01868874	0.02011780	0.01630089	0.01844794	0.02024122
4 OTHER AGRI	0.01511184	0.01131282	0.01854487	0.01664597	0.01829067	0.01460017	0.01661036	0.01818692
5 CR. PETCN. GAS	0.08118654	0.04812844	0.03851273	0.00910190	0.00914933	0.01182662	0.00768530	0.01215072
6 N. GAS LIQ	0.00089168	0.00117588	0.00113114	0.00175101	0.00138235	0.00125268	0.00101566	0.00131811
7 DILGAS FLSV	0.01339326	0.00795808	0.00143380	0.00154841	0.00154575	0.00198291	0.00129428	0.00203813
8 CONSTRUCTION	0.03567508	0.09284629	0.04286763	0.04706901	0.10966964	0.03826674	0.03548917	0.04147659
9 MEAT PROD	0.02056924	0.01544583	0.02525429	0.02292105	0.02446469	0.01993847	0.02226239	0.02478263
10 DAIRIES	0.01428670	0.01068251	0.01753223	0.01571173	0.01699131	0.01379547	0.01570200	0.01719059
11 MILLING&FEED	0.00514947	0.00386323	0.00631899	0.00567868	0.00621556	0.00497790	0.00566032	0.00619898
12 FOOD PROCESS	0.02488079	0.01861706	0.03053126	0.02747192	0.02959679	0.02406029	0.02734904	0.02996493
13 REFRIGERS	0.01164629	0.00886601	0.01521955	0.01509198	0.01411586	0.01919271	0.01417508	0.01741607
14 TEXTILE PROD	0.00087596	0.00179904	0.00099752	0.00118011	0.00187756	0.00111335	0.00095612	0.00122870
15 WOOD & PAPER PROD	0.00477698	0.01038268	0.00581608	0.00591256	0.00694284	0.00733172	0.00637767	0.00656511
16 PRNT&PUBS	0.01456966	0.01151621	0.01926787	0.01853306	0.01847425	0.04014531	0.01648481	0.02517856
17 CHEM&PET PRO	0.00656818	0.02116014	0.00573376	0.00815684	0.00549435	0.00742554	0.00783087	0.00789546
18 PL&LE&GL PRO	0.00033116	0.00135967	0.00038524	0.00036452	0.00037970	0.00035397	0.00038984	0.00040355
19 CLE&T&CE PRO	0.00241614	0.004041562	0.00262875	0.00271070	0.00472308	0.00268900	0.00225589	0.00288489
20 METAL PROD	0.00296914	0.00933113	0.00357490	0.00521521	0.00724969	0.00346918	0.00405025	0.00386375
21 MACH&EQUIP	0.00228283	0.00269143	0.00354007	0.00618135	0.00301407	0.00549013	0.03164048	0.00558210
22 ELECT PROD	0.00073491	0.00190285	0.00076623	0.00094935	0.00085734	0.00111081	0.00080485	0.00086698
23 TRANS EQUIP	0.00048366	0.00044710	0.00053359	0.00073794	0.00052362	0.00049885	0.00048091	0.00057970
24 OTH MFRG	0.00171681	0.00221225	0.00216509	0.00213096	0.00230515	0.00253418	0.00205473	0.00233061
25 RR TRANSPOR	0.00498940	0.00451141	0.00390494	0.05920379	0.00378970	0.00583317	0.00429880	0.01317514
26 LGINT&R TRAN	0.00297291	0.00224868	0.00366929	0.00343802	0.00353916	0.00301369	0.00329327	0.00364853
27 LGLOTRCK, STR	0.01527846	0.01237690	0.03034169	0.01682019	0.04772775	0.02371353	0.01805290	0.04355050
28 OTHER TRANS	0.00632736	0.00483896	0.00807063	0.00880390	0.00772680	0.01619450	0.00774485	0.01026102
29 TELEP&TELEG	0.02076026	0.01721524	0.03033096	0.03053856	0.03620636	0.03387239	0.02702483	0.03388961
30 RADIO&TV BPC	0.00341346	0.00184170	0.00291598	0.00281406	0.00328097	0.00280884	0.00283389	0.00413400
31 OTH COMM	0.00018548	0.00014180	0.00022780	0.00020487	0.00022324	0.00018504	0.00020382	0.00022476
32 GAS SERVICES	0.17781375	0.10368260	0.01762016	0.01840361	0.01892112	0.02461517	0.01569048	0.02533862
33 ELEC SEP	1.02368336	0.08149485	0.03378285	0.04223959	0.04275878	0.04822543	0.03358868	0.05012238
34 WATER&AN SER	0.00657872	1.00394731	0.00724048	0.00755157	0.00835331	0.01588940	0.00604018	0.01506909
35 WHL AUT P&S	0.00204112	0.00134920	1.00225255	0.00420466	0.00302426	0.00491707	0.00231882	0.00289743
36 WHL GROC	0.03352538	0.02527917	0.04183956	1.03868369	0.04009362	0.03490703	0.04834057	0.04221274
37 WHL FARM PROD	0.00235272	0.00176920	0.00288911	0.00259971	1.02503979	0.00227682	0.00258875	0.00283617
38 WHL MAC, EQ, S	0.00151015	0.01898336	0.00161202	0.00156776	0.00101771	1.00294501	0.00097098	0.00117565
39 WHL PET PROD	0.00410412	0.00393625	0.00468653	0.00510754	0.00488081	0.00426502	1.00416888	0.00505224
40 GEN WHL	0.01674964	0.01732433	0.01896600	0.02129525	0.02821728	0.01871050	0.01913916	1.02146030
41 LUMBER YARDS	0.00216861	0.00188320	0.00267051	0.00410926	0.00469019	0.00285281	0.00315523	0.00339260
42 FEQ, HT, P, W & E	0.00615440	0.00452911	0.00738900	0.00667059	0.00719335	0.00600910	0.00663113	0.00731141
43 DEPT&CLOTHST	0.03134719	0.02343884	0.03846786	0.03471927	0.03728110	0.03028361	0.0346519	0.03780938
44 FOOD STORES	0.02303302	0.01724295	0.02839618	0.02564160	0.02742586	0.02326803	0.02548762	0.02827168
45 AUT DLGRP, GS	0.06460493	0.04401539	0.07937541	0.09901729	0.06854832	0.15858396	0.15888155	0.11933548
46 FURN, HN F&EQ	0.00921372	0.00691145	0.01130623	0.01013421	0.01077126	0.00889845	0.01012621	0.01108639
47 EAT&DRINK PL	0.01471425	0.01605432	0.04407359	0.06969499	0.02552654	0.19557758	0.04930247	0.09685663
48 OTH RETAIL	0.02698260	0.02018430	0.03464891	0.03143969	0.03216808	0.02670708	0.03138497	0.03463519
49 RAN&CRE AGE	0.05541244	0.04104931	0.08816325	0.06608334	0.07615085	0.10316391	0.05795931	0.07793161
50 OTHER F. I. R. E.	0.05288404	0.04421747	0.06645100	0.12855927	0.14338487	0.08229189	0.09087522	0.09668408
51 LEGAL SER	0.01075105	0.00715233	0.01554921	0.01251725	0.01133811	0.01115498	0.01111748	0.01397017
52 LODGING SER	0.00157693	0.00121937	0.00956882	0.00202900	0.00219276	0.00174366	0.00186299	0.00205091
53 PERSONAL SER	0.02003943	0.01519037	0.02520135	0.02654413	0.02398206	0.02318253	0.02270501	0.02603732
54 OTH BUS SER	0.01766025	0.01498682	0.03069754	0.03137110	0.07218806	0.11019087	0.05966451	0.05130017
55 AMUSEMENT	0.00630780	0.00495166	0.00925580	0.01023806	0.00786556	0.01767306	0.00894410	0.01253390
56 MISC REP	0.00778272	0.00580661	0.00876288	0.01636897	0.00822793	0.01335488	0.02067216	0.01074969
57 PHYS&DENTIST	0.02246067	0.01680955	0.02752875	0.02475154	0.02677920	0.02177022	0.02469135	0.02702846

58 HOSP&MED SER	0.02316745	0.01732263	0.02842784	0.02547592	0.02755333	0.02236175	0.02546086	0.02787219
59 ELEM&SEC SCH	0.04044407	0.03024184	0.04962802	0.04447354	0.04810003	0.03903759	0.04444792	0.04865769
60 COL UNIV	0.01693480	0.01415923	0.02323598	0.02093759	0.02257031	0.01832001	0.02082148	0.02284669
61 OTH SERVICES	0.01848002	0.01398490	0.02283541	0.03216461	0.02721026	0.02235986	0.02156309	0.02901718
62 HOUSEHOLDS	0.96587032	0.72218261	1.18519546	1.06208864	1.14869286	0.93223951	1.06148094	1.16701225
TOTAL	3.05091400	2.72638741	3.29198029	3.39257590	3.44950372	3.37911481	3.23686517	3.48206114

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	41	42	43	44	45	46	47	48
1 IRR CROPS	0.00481798	0.00528358	0.00244053	0.00417286	0.00308434	0.00516824	0.00448573	0.00495914
2 DRYLAND CROP	0.00594027	0.00652382	0.00305039	0.00528135	0.00380294	0.00639626	0.00555739	0.00613082
3 LIVESTOCK	0.01928899	0.02116404	0.00991632	0.01770217	0.01234647	0.02073269	0.01833028	0.01991066
4 OTHER AGRI	0.01737993	0.01906247	0.00880475	0.01511274	0.01112846	0.01864718	0.01621962	0.01789079
5 CR. PETEN. GAS	0.00760582	0.01515264	0.00955632	0.00849333	0.00568668	0.01164731	0.00864505	0.01786693
6 N. GAS LIQ	0.00106949	0.00116826	0.00056923	0.00090267	0.00095397	0.00119144	0.00118730	0.00120326
7 OIL & GAS FLSV	0.00128273	0.00252816	0.00158958	0.00142412	0.00096344	0.00195152	0.00145730	0.00297608
8 CONSTRUCTION	0.04058310	0.04634180	0.02296753	0.03332989	0.02388332	0.04096784	0.03776980	0.04087282
9 MEAT PROD	0.02366189	0.02596292	0.01199182	0.02144100	0.01515317	0.02539068	0.02246576	0.02437408
10 DAIRIES	0.01643053	0.01802029	0.00831881	0.01419558	0.01052056	0.01762675	0.01530945	0.01691102
11 MILLING & FEED	0.00592218	0.00649568	0.00300497	0.00517856	0.00379182	0.00635521	0.00553630	0.00609804
12 FOOD PROCESS	0.02865737	0.03138700	0.01449832	0.02476481	0.01832142	0.03070067	0.02667551	0.02946114
13 BEVERAGES	0.01404857	0.01658121	0.00821472	0.01206173	0.00312876	0.01568480	0.01299068	0.01650856
14 TEXTILE PROD	0.00096499	0.00106497	0.00121196	0.00277134	0.00058903	0.00121507	0.00135210	0.00121955
15 WOOD & PAPER PROD	0.00650927	0.00751525	0.00561005	0.01238391	0.00427271	0.00921237	0.00566721	0.00657041
16 PRNT & PUBS	0.02713489	0.03448631	0.02963407	0.09915928	0.01293969	0.04716405	0.01797971	0.02355398
17 CHEM & PET PRO	0.00651825	0.00660535	0.00336566	0.00568449	0.01913650	0.00696620	0.00692120	0.00660653
18 PL & LGLL PRO	0.00037001	0.00042098	0.00021693	0.00033306	0.00026099	0.00040639	0.00035330	0.00040590
19 CL & ST & CE PRO	0.00245342	0.00326924	0.00177213	0.00223904	0.00151436	0.00276972	0.00246686	0.00328064
20 METAL PROD	0.00418268	0.00396895	0.00225381	0.00314022	0.00206813	0.00367342	0.00384592	0.00361194
21 MACH & EQUIP	0.00806711	0.00639743	0.01041003	0.00297628	0.00216724	0.00629041	0.00376558	0.00505083
22 ELECT PROD	0.00082341	0.00108929	0.00386562	0.00079525	0.00057449	0.00096854	0.00082782	0.00087181
23 TRANS EQUIP	0.00063871	0.00051551	0.00032965	0.00043511	0.00031796	0.00056899	0.00053367	0.00053794
24 OTH MEGR	0.00201745	0.00229013	0.00117145	0.00229833	0.00134454	0.00245549	0.00385204	0.00229365
25 RR TRANSPOR	0.02984489	0.00450028	0.00257788	0.00348555	0.00235050	0.00425065	0.01904980	0.00460585
26 LEINTER TRAN	0.00344273	0.00379059	0.00176993	0.00322766	0.00223897	0.00372585	0.00385665	0.00356402
27 LGLDTRCK, STR	0.02553986	0.02631075	0.01316705	0.01799988	0.01091778	0.01304079	0.04993645	0.03720611
28 OTHER TRANS	0.00771153	0.00891080	0.00453795	0.00696624	0.00452520	0.00855502	0.00721850	0.00903962
29 TELEPH & TELEG	0.02849776	0.03586752	0.01545593	0.02206425	0.01833560	0.03568519	0.02591775	0.04433755
30 RADIO & TV BRC	0.00243337	0.00243297	0.00405157	0.00448800	0.00198393	0.02028511	0.00236950	0.00946021
31 OTH COMM	0.00021556	0.00023757	0.00011424	0.00020276	0.00013699	0.00023513	0.00019890	0.00022085
32 GAS SERVICES	0.01559445	0.03214945	0.02043840	0.01771044	0.01044596	0.02439262	0.01779748	0.03811036
33 ELEC SER	0.03174810	0.06298618	0.03853693	0.03846385	0.02144431	0.05175247	0.04238787	0.07321886
34 WATER & SAN SER	0.00604834	0.02053430	0.01503041	0.00861426	0.00406229	0.01214473	0.00731366	0.02702010
35 WHL AUT PTES	0.00220034	0.00490717	0.01384440	0.00207667	0.00257740	0.0297038	0.00310944	0.00271363
36 WHL GROC	0.04073543	0.04398933	0.01985584	0.03369389	0.02491490	0.04295363	0.04371633	0.04111063
37 WHL FAN PROD	0.00271004	0.00297051	0.00317550	0.00237917	0.00173336	0.00290713	0.00253471	0.00278720
38 WHL MAC, EQ, S	0.00074821	0.00118124	0.00236993	0.00122182	0.00060105	0.00127704	0.00077254	0.00238192
39 WHL PET PROD	0.00431991	0.00478654	0.00234698	0.00399172	0.00275075	0.00478333	0.00431114	0.00465037
40 GEN WHL	0.01846293	0.01985033	0.01683785	0.03605117	0.01131739	0.02161207	0.02148856	0.02113593
41 LUMBER YARDS	1.00304711	0.00379911	0.00191096	0.00261109	0.00169477	0.00481089	0.00513625	0.00371202
42 REC. HT, P, W, E	0.00591715	1.00762173	0.00354294	0.00602876	0.00443223	0.00744264	0.00756392	0.00718014
43 DEPT & CLOTHST	0.03605462	0.03954353	1.01825622	0.03115387	0.02319236	0.03980584	0.02352971	0.03760205
44 FOOD STORES	0.02657614	0.02929156	0.01359423	1.02296746	0.01703117	0.02858805	0.03024505	0.02760247
45 AUT DLGRP, GS	0.0147121	0.09935315	0.04877899	0.06216785	1.15442143	0.07509714	0.07119470	0.10260153
46 FURN, HH FEQ	0.01059613	0.01162189	0.00536592	0.00915593	0.00678456	1.01136750	0.00987382	0.01090620
47 EAT & DRINK PL	0.03391162	0.06363708	0.04200708	0.02757813	0.02478174	0.04997984	1.02955355	0.09110892
48 OTH RETAIL	0.03405402	0.03587539	0.01587561	0.02731433	0.02058793	0.03533811	0.03146392	1.03217265
49 BANK & CRE AGE	0.11247083	0.07898119	0.03171653	0.05491707	0.05184750	0.08163306	0.05612034	0.07402543
50 OTHER F. I. R. E.	0.08440498	0.11097604	0.05739814	0.07193014	0.04379048	0.15356696	0.17163449	0.11035525
51 LEGAL SER	0.01028488	0.01347245	0.00579013	0.01060780	0.00738010	0.01246378	0.01253106	0.01204585
52 LODGING SER	0.00193303	0.00222364	0.00108441	0.00188996	0.00120290	0.00237422	0.00214779	0.00270899
53 PERSONAL SER	0.02371455	0.02642445	0.01272107	0.02726594	0.01564747	0.02631506	0.03961965	0.02496824
54 OTH BUS SER	0.02259920	0.03089664	0.02601288	0.13232526	0.05071779	0.05483727	0.02975141	0.04647323
55 AMUSEMENT	0.00827484	0.01072672	0.00580315	0.00717726	0.00545005	0.00974368	0.07165268	0.01141821
56 MISC REP	0.01393879	0.01463198	0.00853696	0.01809533	0.00558707	0.02645928	0.01301150	0.01127908
57 PHYS & DENTIST	0.02582591	0.02834709	0.01309390	0.02231277	0.01652439	0.02777917	0.02412598	0.02660951

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58 HOSPEMED SER	0.02664301	0.02921965	0.01348819	0.02301891	0.01705951	0.02858271	0.02477808	0.02741989
59 ELFMGSEC SCH	0.04651162	0.05100949	0.02354681	0.04018620	0.02978149	0.04989707	0.04325785	0.04786775
60 COLLEUNIV	0.02179677	0.02389972	0.01103193	0.01894579	0.01394690	0.02341094	0.02031484	0.02247959
61 OTH SFRVICES	0.02342192	0.02519836	0.01158700	0.03181456	0.01402441	0.02796474	0.02632748	0.02893431
62 HOUSEHOLDS	1.11077148	1.21818396	0.56232653	0.95967954	0.71122688	1.19160718	1.03297260	1.14314713
TOTAL	3.23479249	3.51369562	2.25823510	3.10807840	2.50191675	3.54578362	3.26298562	3.47274984

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL, TEXAS, 1967

	49	50	51	52	53	54	55	56
1 IRR CROPS	0.00492233	0.00470391	0.00536228	0.00401531	0.00541519	0.00435343	0.00455986	0.00378136
2 DRYLAND CROP	0.00607376	0.00581531	0.00659373	0.00506003	0.00680232	0.00541466	0.00569313	0.00466850
3 LIVESTOCK	0.01985817	0.01898782	0.02144509	0.01673792	0.02229057	0.01758090	0.01866610	0.01526899
4 OTHER AGRI	0.01775988	0.01697159	0.01934747	0.01455565	0.01953937	0.01570558	0.01647833	0.01364302
5 CR. PETEN. GAS	0.00759501	0.00795820	0.00784078	0.03290100	0.01179217	0.01365055	0.01320955	0.00583715
6 N. GAS LIQ	0.00099350	0.00097523	0.00107265	0.00112551	0.00212789	0.00112895	0.00096867	0.00077415
7 OIL & GAS FLSV	0.00127878	0.00133806	0.00132150	0.00544934	0.00200208	0.00227971	0.00220255	0.00098311
8 CONSTRUCTION	0.04475251	0.03643819	0.04162523	0.11158394	0.06123956	0.03775823	0.03644495	0.02917735
9 MEAT PROD	0.02416807	0.02309915	0.02633555	0.02029209	0.02658874	0.02139757	0.02286573	0.01856724
10 DAIRIES	0.01678683	0.01604098	0.01829219	0.01374163	0.01845464	0.01484200	0.01555896	0.01289503
11 MILLING/FEED	0.00605663	0.00578819	0.00659174	0.00497664	0.00667819	0.00535659	0.00562565	0.00465316
12 FOOD PROCESS	0.02923710	0.02794155	0.03185595	0.02383153	0.03216469	0.02586311	0.02738735	0.02246038
13 BEVERAGES	0.01375770	0.01359502	0.01490453	0.01234474	0.01590586	0.01496810	0.01292734	0.01074169
14 TEXTILE PROD	0.00177310	0.00173935	0.00094902	0.00229077	0.00421485	0.00159085	0.00147853	0.00142914
15 WOOD & PAPER PROD	0.00566894	0.00631422	0.00615782	0.01107450	0.01426593	0.00804221	0.00939708	0.00434707
16 PRNT&PUBS	0.01646312	0.02640137	0.01883798	0.06602088	0.04718110	0.04259469	0.03107127	0.01237824
17 CHEM&PET PRO	0.00525694	0.00521406	0.00639574	0.00713059	0.04937935	0.00610719	0.00626960	0.00428440
18 PL & LEGAL PRO	0.00036522	0.00035385	0.00039683	0.00039145	0.00064233	0.00037622	0.00049834	0.00028475
19 CEMENT&CE PRO	0.00260516	0.00232937	0.00258510	0.00667163	0.01001272	0.00285402	0.00287155	0.00184413
20 METAL PROD	0.00360646	0.00317929	0.00357380	0.00771917	0.01111074	0.00480958	0.00604492	0.00257596
21 MACH&EQUIP	0.00266134	0.00340096	0.00287428	0.00316758	0.01335699	0.00504346	0.00510487	0.00508170
22 ELECT PROD	0.00079392	0.00136450	0.00078098	0.00111495	0.00119944	0.00116886	0.00091102	0.00059951
23 TRANS EQUIP	0.00051240	0.00048852	0.00055546	0.00059165	0.00050125	0.00049043	0.00049043	0.00040522
24 OTH MFRG	0.00208821	0.00202079	0.00217516	0.00313178	0.02547797	0.00508987	0.02650084	0.00157661
25 RR TRANSPO	0.00345501	0.00413758	0.00685545	0.00492870	0.00461832	0.00427281	0.00416926	0.00277599
26 LG INTER TRAN	0.00349066	0.00335134	0.00380510	0.00359035	0.04117292	0.00318032	0.00366387	0.00275460
27 LG LOTRCK, STR	0.31653301	0.01661309	0.01776602	0.01825982	0.02053911	0.01942080	0.01765863	0.01575221
28 OTHER TRANS	0.00742356	0.00816613	0.00793001	0.00744409	0.01096300	0.01303765	0.00744211	0.00563097
29 TELEPH&TELE	0.02745125	0.02647393	0.03575243	0.03128884	0.03173839	0.03083100	0.03289333	0.02389929
30 RADIO&TV BRC	0.00580092	0.00271507	0.00211383	0.04498651	0.00857949	0.02654665	0.00266366	0.00151466
31 OTH COMM	0.00021786	0.00021055	0.00023730	0.00019175	0.00024642	0.00019887	0.00020456	0.00016710
32 GAS SERVICES	0.01571409	0.01651686	0.01611756	0.07125213	0.02079591	0.02884414	0.02801490	0.01205312
33 ELEC SER	0.03050078	0.03259934	0.03050404	0.13979636	0.03816921	0.05471382	0.07500045	0.02452790
34 WATER SAN SER	0.00636350	0.00677241	0.00614124	0.06048805	0.00882764	0.02002415	0.01981989	0.00467987
35 WHL AUT PT&S	0.00192480	0.00782514	0.00199355	0.00250929	0.00343356	0.00458444	0.00266385	0.00148054
36 WHL GROC	0.03942049	0.03828829	0.04302705	0.04973715	0.04353642	0.03629577	0.04726120	0.03150077
37 WHL FARM PROD	0.00275929	0.00264702	0.00301239	0.00228105	0.00306457	0.00245201	0.00257680	0.00213052
38 WHL MAC, EQ, S	0.00076297	0.00091599	0.00077216	0.00567167	0.00124033	0.00221934	0.00107477	0.00067077
39 WHL PET PROD	0.00435298	0.00422537	0.00466530	0.00448828	0.00560145	0.00656572	0.00412633	0.00332637
40 GEN WHL	0.02685012	0.02611120	0.01874795	0.03068821	0.02313903	0.02425602	0.02270176	0.02129485
41 LUMBER YARDS	0.00268568	0.02792063	0.00274207	0.00399224	0.00306595	0.00258534	0.00571607	0.00193560
42 EQ, HT, P, W, E	0.00705705	0.00675119	0.00768817	0.0094501	0.00781500	0.00634494	0.02392612	0.00542475
43 DEPT&CLOTHST	0.03683202	0.03519646	0.04013434	0.02999203	0.04049227	0.03257215	0.03401930	0.02829534
44 FOOD STORES	0.02707347	0.02590470	0.02950059	0.02219266	0.02985515	0.02430116	0.02504136	0.02082106
45 AUT DLGR, GS	0.06483403	0.06493199	0.06954611	0.06871042	0.08127558	0.09638789	0.06945387	0.05955582
46 FURN, HH F&EQ	0.01082677	0.01034448	0.01179615	0.00882961	0.01190660	0.00958449	0.01030495	0.00831554
47 EAT&DRINK PL	0.02126788	0.02617141	0.02304740	0.04289226	0.03898901	0.04213973	0.02576165	0.02027136
48 OTH RETAIL	0.03162199	0.03041652	0.03544386	0.02637734	0.03738522	0.02961133	0.03111495	0.02617047
49 BANK&CPY AGE	1.08676098	0.05936006	0.06789984	0.05404258	0.07243717	0.07018111	0.05902967	0.05036487
50 OTHER F. I. R. E.	0.06849743	1.09925767	0.06784589	0.12172934	0.07836752	0.06918651	0.18576728	0.04792417
51 LEGAL SER	0.01280425	0.01933953	1.01087243	0.01067025	0.01572746	0.01123881	0.01085528	0.00827227
52 LODGING SER	0.00187040	0.00584544	0.00212038	1.01888606	0.00226108	0.00179752	0.00229638	0.00141801
53 PERSONAL SER	0.02353923	0.02291331	0.02568114	0.03919065	1.02753514	0.02330666	0.03352681	0.02004097
54 OTH BUS SER	0.04080424	0.04827750	0.02135339	0.15887688	0.02683274	1.06022464	0.04646011	0.01506814
55 AMUSEMENT	0.00751436	0.00758477	0.00866097	0.00789963	0.00435755	0.01078357	1.00809592	0.00602518
56 MISC REP	0.00752679	0.00746757	0.00882543	0.01016769	0.00892510	0.01002427	0.02553767	1.00577984
57 PHYSICENTIST	0.02636602	0.02638890	0.02872166	0.02155569	0.02899517	0.02332124	0.02450002	0.02024733

58 HOSP&MED SER	0.02722128	0.02602350	0.02966228	0.02215786	0.02992301	0.02406387	0.02513957	0.02091014
59 ELEM&SEC SCH	0.04752167	0.04540873	0.05178292	0.03868327	0.05228301	0.04201570	0.04393282	0.03650403
60 COLUNIV	0.02226849	0.02132283	0.02428744	0.01825250	0.02447943	0.01972099	0.02074590	0.01713491
61 OTH SERVICES	0.02377245	0.02723732	0.02814121	0.03225841	0.02625149	0.02462924	0.04042038	0.02123191
62 HOUSEHOLDS	1.13488981	1.08442923	1.23666198	0.92374632	1.24750776	1.00324713	1.04803327	0.87177302
TOTAL	3.16162257	3.15852097	3.27972785	3.54047125	3.57584300	3.21318940	3.34485135	2.64590209

INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : SOUTH CENTRAL , TEXAS, 1967

	57	58	59	60	61	HOUSEHOLDS
1 IRR CROPS	0.00545172	0.00501735	0.00716840	0.00562839	0.00494568	0.00703778
2 ORYLAND CROP	0.00672401	0.00694750	0.01158323	0.00730434	0.00616236	0.00864499
3 LIVESTOCK	0.02187732	0.02609998	0.03656581	0.02229553	0.01992902	0.02812552
4 OTHER AGRI	0.01967170	0.01974946	0.03752534	0.01994061	0.01783754	0.02539320
5 CR. PETEN. GAS	0.00871354	0.00853640	0.01022005	0.01220421	0.01547363	0.00976575
6 N. GAS LIQ	0.00112569	0.00131501	0.00116566	0.00132808	0.00114188	0.00137216
7 OIL&GAS FLSV	0.00146671	0.00144292	0.00171590	0.00204722	0.00258027	0.00164696
8 CONSTRUCTION	0.05277231	0.04135660	0.05169068	0.04308198	0.03986501	0.05332266
9 MEAT PROD	0.02644963	0.03403792	0.04915689	0.02714195	0.02431490	0.03456392
10 DAIRIES	0.01960731	0.01961172	0.04941047	0.01883195	0.01685649	0.02400903
11 MILLING&FEED	0.00670378	0.00678100	0.01201442	0.00797475	0.00609427	0.00865076
12 FOOD PROCESS	0.03260988	0.03527776	0.07229008	0.03374381	0.02938739	0.04180320
13 BEVERAGES	0.01513917	0.01309606	0.01491390	0.01544174	0.01821286	0.01950093
14 TEXTILE PROD	0.00112473	0.00147092	0.00172856	0.00194550	0.00157107	0.00114253
15 WOOD& PAPER PROD	0.00653235	0.00645729	0.01088314	0.03673120	0.01007945	0.00732918
16 PRNTP&PUBS	0.01938286	0.01626717	0.01751506	0.02351571	0.06293766	0.02188975
17 CHEM&PFT PRO	0.00687770	0.02167742	0.00683698	0.01195332	0.00718427	0.00737122
18 PLELE&GL PRO	0.00040694	0.00041467	0.00053365	0.00117750	0.00042040	0.00051634
19 CLE&STCE PPO	0.00301217	0.00265005	0.00295072	0.00322497	0.00312490	0.00332814
20 METAL PROD	0.00415829	0.00355881	0.00413905	0.00796673	0.00371098	0.00449090
21 MACH&EQUIP	0.00297535	0.00284457	0.00291020	0.01124271	0.00570854	0.00362601
22 ELECT PROD	0.00079852	0.00072584	0.00081833	0.01290639	0.00096680	0.00098898
23 TRANS EQUIP	0.00056956	0.00050753	0.00066474	0.00275883	0.00056152	0.00070788
24 OTH MFR	0.00232989	0.00255417	0.00220461	0.02661704	0.00269283	0.00280922
25 RR TRANSPOR	0.00376302	0.00373423	0.00387390	0.00561577	0.00568638	0.00466019
26 LGNTR TRAN	0.00405431	0.00437467	0.00391554	0.00397207	0.00371587	0.00498586
27 LG&DTRCK. STR	0.01809056	0.01707709	0.02673222	0.02186863	0.02219286	0.02295308
28 OTHER TRANS	0.00814243	0.00756810	0.00701174	0.01111542	0.01012337	0.01011322
29 TELF&TELEG	0.03749054	0.03372470	0.02506624	0.04503604	0.03089754	0.02952364
30 RADIO&TV BRC	0.00214883	0.00216854	0.00219329	0.00519852	0.00304000	0.00261407
31 OTH COMM	0.00024133	0.00020748	0.00023703	0.00025070	0.00022876	0.00031078
32 GAS SERVICES	0.01797230	0.01630407	0.02127925	0.02511341	0.03280694	0.02010113
33 ELEC SER	0.03898625	0.03234569	0.04173824	0.05246313	0.06181343	0.03843739
34 WAT&SAN SER	0.00685752	0.00657282	0.00745840	0.01313683	0.02268725	0.00752784
35 WHL AUT PTC&S	0.00206662	0.00185603	0.00223432	0.00289345	0.00230449	0.00249061
36 WHL GROC	0.04371564	0.04474073	0.04378073	0.04425872	0.04904412	0.05623526
37 WHL FARM PROD	0.00306267	0.00307704	0.00481759	0.00311236	0.00280035	0.00395091
38 WHL MAC, EQ, S	0.00092663	0.00297125	0.00389547	0.00102687	0.00163355	0.00098011
39 WHL PET PROD	0.00476224	0.00421950	0.00503074	0.00504291	0.00458427	0.00609707
40 GEN WHL	0.02056711	0.02240028	0.02681937	0.02026219	0.02431003	0.02347368
41 LUMBER YARDS	0.00294593	0.00245042	0.00275646	0.00539244	0.00292008	0.00320338
42 FEQ, HT, P, W, E	0.00780660	0.00725004	0.01005538	0.00799898	0.00720787	0.01007375
43 DEPT&CLOTHST	0.04074198	0.03506780	0.04007396	0.04129341	0.03700312	0.05267658
44 FOOD STORES	0.02994931	0.02580431	0.02944778	0.03035244	0.02775896	0.03869728
45 AJT OLLRP, GS	0.07090618	0.06209267	0.07095402	0.07293436	0.12243962	0.09020806
46 FURN, MN F&EQ	0.01197667	0.01030721	0.01177931	0.01214002	0.01087080	0.01548233
47 FAT&DRINK PL	0.02232222	0.02076914	0.02196032	0.02384690	0.12068664	0.02654186
48 OTH RETAIL	0.03507080	0.03017457	0.03447261	0.03547529	0.04508757	0.04505487
49 BANK&CRE AGE	0.07146959	0.08101577	0.06591789	0.06897366	0.276240	0.08480682
50 OTHER F. I. R. E.	0.07444188	0.05978437	0.06457028	0.17380153	0.7821395	0.07307942
51 LEGAL SER	0.01363435	0.01021299	0.01101836	0.01580541	0.261037	0.01404809
52 LODGING SER	0.00216539	0.00177638	0.00200168	0.00254045	0.205521	0.00257145
53 PERSONAL SER	0.03120334	0.05018241	0.02605390	0.02778511	0.02926021	0.03351001
54 OTH BUS SER	0.02086057	0.02050942	0.02273504	0.05073859	0.05263323	0.02481456
55 AMUSEMENT	0.00823666	0.00719261	0.00809642	0.00980842	0.01404506	0.01049054
56 MISC REP	0.01101341	0.01016463	0.00856410	0.00878824	0.01024508	0.01053519
57 PHYS&DNTIST	1.03048961	0.05155418	0.02897019	0.02968634	0.02648396	0.03767937

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58 HOSP&MED SER	0.04065097	1.03014254	0.02962164	0.03051977	0.02732867	0.03893268
59 ELEM&SEC SCH	0.05256746	0.04524388	1.05189122	0.05337506	0.04771000	0.06796697
60 COL&UNIV	0.02465708	0.02120447	0.02419013	1.02495518	0.03252467	0.03179062
61 OTH SERVICES	0.02874960	0.02302496	0.02210879	0.02557230	1.05741346	0.02803497
62 HOUSEHOLDS	1.25539216	1.09046613	1.23470674	1.27234778	1.13936015	1.62316634
TOTAL	3.36598090	3.16110017	3.45536620	3.64144329	3.56625001	2.91593699

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APPENDIX E

Labor Input Coefficients:^a South Central Texas Region,
Texas Input-Output Project, 1967.

Regional Sector Number	Regional Sector Name	Regional Sector Labor Input Coefficient ^f
1	Irrig Crops	.0000357
2	Dryld Crops	.0000427
3	Livestock	.0000758
4	Other Agri	.0000592
5 ^b	Oil and Gas	.0000049
6 ^b	Liquids	.0000038
7 ^b	Oilfld Sers	.0000499
8 ^c	Construction	.0000353
9	Meat Prods	.0000170
10	Dairies	.0000293
11	Mill and Feeds	.0000126
12	Food Process	.0000803
13	Beverages	.0000482
14	Textiles	.0001258
15	Wood Prods	.0000065
16	Print and Pub	.0000700
17	Chem Prods	.0000146
18	Glass Prods	.0000598
19	Cement - Stone	.0000488
20	Metal Prods	.0003865
21	Mach and Equip	.0000369

Labor Input Coefficients:^a (continued)

Regional Sector Number	Regional Sector Name	Regional Sector Labor Input Coefficient ^f
22	Elec Prods	.0000605
23	Trans Equip	.0000321
24	Other Manf	.0001126
25	RRoad Trans	.0000670
26	Local Trans	.0000627
27	Trucking	.0000650
28	Other Trans	.0000404
29 ^d	Tele and Tele	.0000563
30 ^d	Radio and TV	.0000571
31 ^d	Other Comm	.0000445
32 ^e	Gas Util	.0000890
33 ^e	Elec Util	.0000833
34	Water Util	.0000679
35	Auto Supp W/S	.0000044
36	Groceries W/S	.0000036
37	Farm Prods W/S	.0000312
38	Equip Supp W/S	.0000050
39	Oil Prods W/S	.0000007
40	General W/S	.0000038
41	Lumb Yards	.0000028
42	Hardware	.0000078

Labor Input Coefficients:^a

Regional Sector Number	Regional Sector Name	Regional Sector Labor Input Coefficient ^f
3	Dept Stores	.0001905
4	Food Stores	.0000062
42	Auto Dealers	.0000044
46	Furniture	.0000136
47	Restaurants	.0000244
48	Other Retail	.0000477
49	Banking	.0000340
50	Other F. I. R. E.	.0005118
51	Legal Ser	.0000445
52	Lodging Ser	.0000187
53	Personal Ser	.0001221
54	Other Bus Ser	.0000740
55	Amusement	.0001016
56	Misc Repair	.0000177
57	Phys and Dentists	.0000387
58	Other Med Ser	.0001329
59	Elem and Sec Sch	.0001325
60	Coll and Univs	.0003720
61	All Other Ser	.0000857

^aLabor Input Coefficient is defined as workers per dollar of output, i. e. the ratio of dollar output to quantity of employment.

^bRegional Sectors 5-7, (Preliminary State Sectors 18-20). James R. Vinson, "Special Industry Study: Mining, "Hardin-Simmons University, Abilene, Texas.

^cRegional Sector 8, (Preliminary State Sectors 22-26). Edward Y. George, "Special Industry Study: Construction," University of Texas at El Paso, El Paso, Texas.

^dRegional Sectors 29-31, (Preliminary State Sectors 129-131). David Mooreman, "Special Industry Study: Communications," Texas Tech University, Lubbock, Texas.

^eRegional Sectors 32-33, (Preliminary State Sectors 132-135). Walter E. Mullendore and Arthur L. Ekholm, "Special Industry Study: Utilities," University of Texas at Arlington, Arlington, Texas.

^fRegional Labor Input Coefficients are primarily based on State Sector Labor Input Coefficients and are computed as:

$$LIC_{rs} = \frac{N_{rs} CT_{rs}}{N_{rs}}$$

where LIC_{rs} = Labor Input Coefficient by Regional sector number; N_{rs} = estimated employment by regional sector number computed as:

$$N_{rs} = \sum_{i=1}^n N_{ss}$$

where N_{ss} = estimated employment by preliminary state sector number computed as:

$$N_{ss} = CT_{ss} (LIC_{ss})$$

where CT_{ss} = control total by preliminary state sector number; and LIC_{ss} = Labor Input Coefficient by preliminary state sector number, n = the number of preliminary state sectors in each regional sector, and m = the defined sub-set of preliminary state sectors in each corresponding regional sector; and CT_{rs} = control total by regional sector number.

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APPENDIX F

Regional Control Totals by Sector, 1967.

Regional Sector Number ^a	Regional Sector Name	Estimated Inventory Change by Regional Sector Number ^b	Adjusted Control Totals by Regional Sector Number ^c
1 ^d	Irrig Crops	20,057	34,800,000
2 ^d	Dryld Crops	-9,070,000	92,910,000
3 ^d	Livestock	-5,400,000	240,800,000
4 ^d	Other Agri	-870,000	108,451,000
5 ^e	Oil and Gas	0	232,845,000
6 ^e	Liquids	0	30,747,000
7 ^e	Oilfld Sers	-39,998	52,800,000
8 ^f	Construction	0	843,979,000
9 ^g	Meat Prods	155,100	171,850,000
10 ^g	Dairies	55,100	61,080,000
11 ^g	Mill and Feeds	0	48,460,000
12 ^g	Food Process	10,600	147,590,000
13 ^g	Beverages	0	88,430,000
14 ^g	Textiles	3,070,800	94,000,000
15 ^g	Wood Prods	-6,365,800	73,040,000
16 ^g	Print and Pub	-23,900	68,110,000
17 ^g	Chem Prods	2,785,600	53,160,000
18 ^g	Glass Prods	-807,900	23,250,000
19 ^g	Cement - Stone	69,300	95,330,000
20 ^g	Metal Prods	160,000	89,820,000
21 ^g	Mach and Equip	4,243,100	82,490,000
22 ^g	Elec Prods	1,134,400	20,490,000

Regional Control Totals. (continued)

Regional Sector Number ^a	Regional Sector Name	Estimated Inventory Change by Regional Sector Number ^b	Adjusted Control Totals by Regional Sector Number ^c
23 ^g	Trans Equip	208,300	57,040,000
24 ^g	Other Manf	383,100	32,030,000
25 ^h	RRoad Trans	0	21,776,500
26 ^h	Local Trans	0	19,995,000
27 ^h	Trucking	0	81,697,000
28 ^h	Other Trans	0	50,729,000
29 ⁱ	Tele and Tele	0	107,088,000
30 ^j	Radio and TV	0	25,492,100
31 ^j	Other Comm	0	786,100
32 ^k	Gas Util	-54,800	91,313,000
33 ^k	Elec. Util	0	123,483,000
34 ^l	Water Util	0	28,965,000
35 ^m	Auto Supp W/S	0	56,487,752
36 ^m	Groceries W/S	0	160,772,820
37 ^m	Farm Prods W/S	0	98,093,722
38 ^m	Equip Supp W/S	0	57,000,420
39 ^m	Oil Prods W/S	0	28,878,784
40 ^m	General W/S	0	170,035,750
41 ^m	Lumb Yards	0	12,584,380
42 ^m	Hardware	0	39,387,619
43 ^m	Dept Stores	0	151,102,413
44 ^m	Food Stores	0	92,868,895

Regional Control Totals. (continued)

Regional Sector Number ^a	Regional Sector Name	Estimated Inventory Change by Regional Sector Number ^b	Adjusted Control Totals by Regional Sector Number ^c
45 ^m	Auto Dealers	0	283,993,240
46 ^m	Furniture	0	37,224,000
47 ^m	Restaurants	0	100,053,128
48 ^m	Other Retail	0	110,594,792
49 ⁿ	Banking	0	257,069,000
50 ⁿ	Other F. J. R. E.	0	237,989,000
51 ^o	Legal Ser	0	39,272,900
52 ^p	Lodging Ser	0	46,174,000
53 ^p	Personal Ser	129,600	84,080,000
54 ^p	Other Bus Ser	71,900	127,126,000
55 ^p	Amusement	0	27,638,000
56 ^p	Misc Repair	-210,500	32,100,000
57 ^s	Phys and Dentists	0	90,849,000
58 ^r	Other Med Ser	0	93,465,700
59 ^s	Elem and Sec Sch	0	196,156,600
60 ^{s,q}	Coll and Univs	0	115,982,000
61 ^t	All Other Ser	0	158,152,100

^aSee Table 11, Chapter 3.

^bInventory adjustment based on project and sample survey data--net change.

^cRegional control totals equal aggregation of applicable preliminary model sector number listing adjusted for gross margins in trades and net inventory change.

^dHerbert W. Grubb, et. al., Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Agricultural Value of Production, Government Payments and Inventory Changes; Region 6, Texas Input-Output Project--1967," unpublished project report, Austin, Texas.

^eJames R. Vinson, "Special Industry Study: Mining," unpublished Texas Input-Output project report, Bureau of Economic and Business Research, Hardin-Simmons University, Abilene, Texas.

^fEdward Y. George, "Special Industry Study: Construction," unpublished Texas Input-Output project report, University of Texas at El Paso, El Paso, Texas.

^gHerbert Grubb and Anita Rau, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Value of Shipments by Region for Manufacturing Sectors: 1967," unpublished project report, Austin, Texas, April 13, 1971.

^hJack W. Huffman, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Input-Output Project: Transportation" (other subsequently prepared tables), unpublished project report, Austin, Texas, August 13, 1970.

ⁱAnthony Lusk, Texas Input-Output Project, Division of Planning Coordination, Office of the Governor, "Estimated Telephone Industry Sector Direct Input Requirements per Dollar of Output for Input-Output Region 6, Texas Input-Output Sector 129," unpublished project report, Austin, Texas.

^jDavid Moorman and Herbert W. Grubb, Division of Planning Coordination, Office of the Governor, "An Input-Output Analysis of Selected Communications Sectors in Texas," unpublished Input-Output project report, Austin, Texas, April 1, 1971.

^kWalter E. Mullendore and Arthur L. Ekholm, "Electric and Gas Utilities: Procedures and Analyses of Inputs by Region, Texas Input-Output Project," unpublished project report, University of Texas at Arlington, Arlington, Texas, March 30, 1971.

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