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

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

Texas
Interindustry
Project

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Arlington, Texas
April, 1972

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OFFICE OF THE GOVERNOR
DIVISION OF PLANNING COORDINATION

PRESTON SMITH
GOVERNOR OF TEXAS

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ABSTRACT

TITLE : An Interindustry Analysis of the North Central Texas Region

AUTHOR : Walter E. Mullendore, Arthur L. Ekholm, and Paul M. Hayashi

SUBJECT : Input-Output Models and Interregional Economics

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ABSTRACT : The primary objective was to estimate the structural interrelationships of the North Central Texas Economy in 1967. This region is a thirty-one county area with a 1970 population of 3,064,560. Economic interdependencies were estimated by Input-Output analysis. The regional Input-Output Model consists of transactions, input coefficients, and interdependence coefficients tables. Monetary values of transactions among 108 processing sectors, of sales to final demand (including regional household consumption and exports), and of purchases in addition to local interindustry transactions (including household payments and imports) are estimated in the transactions table from primary and secondary data. Input coefficients estimate the value of inputs required from each processing sector to produce one dollar of output for a sector. Interdependence coefficients show the total required expansion of output in all regional processing sectors as a result of a dollar of output for a sector.

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 with similar data from other regions 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 University of Texas at Arlington, Department of Economics, conducted the North Central regional project. This report presents the Input-Output Model and suggests some types of analyses that can be made of the regional economy. The Input-Output analyses and interpretations are those of the author, and do not necessarily represent the views of the State Project Director, the Office of the Governor, nor the U. S. Department of Housing and Urban Development.

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

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I. INTRODUCTION

A. PURPOSE OF THE STUDY

Each day many decisions which affect the economic growth and quality of living in North Central Texas are made by businessmen and public authorities. Public and private planners often find it difficult to determine the best of alternative policies and programs to meet various objectives due to the complexity of the regional economy and the lack of detailed economic information about the region.

Much of this complexity is because the North Central Texas economy is much more than the sum of its parts. Functionally, the North Central Texas economy has numerous interrelationships between its many economic units. Almost every economic unit in North Central Texas acts as both a seller to and a buyer from other economic units in the region. The underlying structure of the North Central Texas economy is composed of these economic interrelationships. Each economic unit is dependent on others, either directly or indirectly, so that changes in the activities of one unit tend to have repercussions throughout the region. A knowledge of how each economic unit serves or affects other economic units is required for understanding the regional impacts of different actions.

The most comprehensive method of obtaining quantitative estimates of the economic interdependencies in a regional economy is input-output analysis. Input-output analysis provides quantitative data on the production and distribution structure of individual economic sectors and the interrelationships among them.

The concept of input-output analysis can be demonstrated by the following hypothetical example. An aerospace firm located within the region has recently cut back its employment by 500 employees. Bill Jones, an industrial engineer, is one of the former employees of the firm who has not been able to find another job. Although Bill Jones has some savings and is drawing unemployment compensation, he has been forced to reduce his consumption expenditures. What is the effect of the reductions in expenditures by Bill on the regional economy?

The impact on the regional economy of his reduction in expenditures is very small. However, the impact of several people in the same situation as Bill can cause significant reductions in the volume of sales for some industrial sectors of the regional economy. Such business fluctuations may lead to adjustments in the purchase of raw materials and capital equipment and in the employment of labor.

Assume that Bill decides not to add a room to his house as he had earlier planned to do. The home construction industry will cancel some orders for building materials and the number of hours of work for construction workers will be reduced. This is the direct effect of Bill's decision.

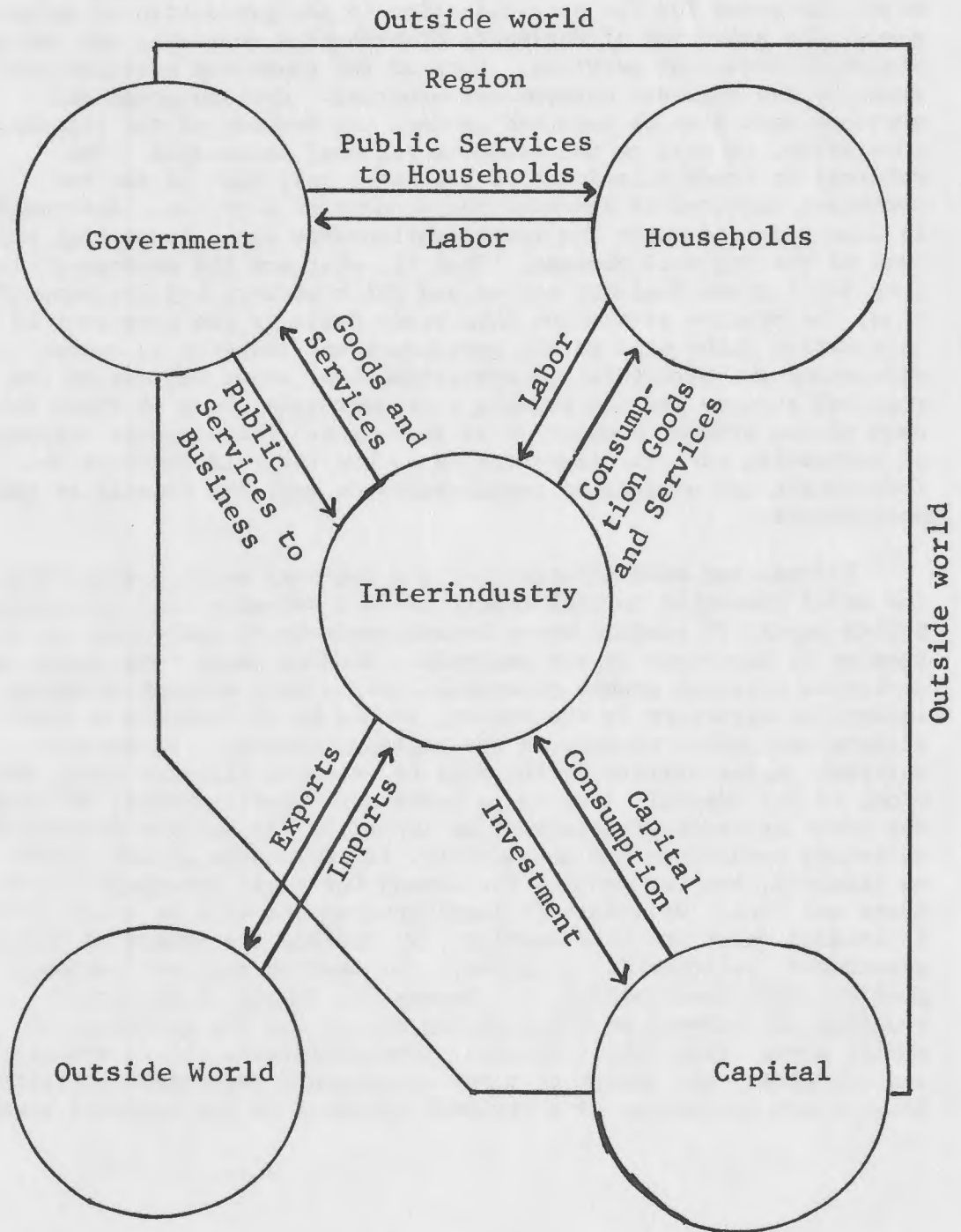
A series of indirect reactions will follow the direct effect.

A readjustment of employment and purchases of inputs will take place in those industries which provide supplies and building materials to the residential construction industry. The repercussions will extend to even other industries in the regional economy. Specialized production in the regional economy results in industries being highly dependent on each other and changes in the purchases in an industry will spread from one industry to another throughout the economy. The repercussions resulting from Bill's decision go through several rounds and depend on the degree of interdependence among sectors of the regional economy. Input-output analysis provides a technique for evaluating both the direct and indirect effects of such changes in the demand for regional output.

The purpose of the North Central Texas Input-Output Project was to determine the structural interrelationships of the economy for 1967. Economic interdependence as measured by an input-output model indicates the inputs purchased by each regional industrial sector from other regional sectors and final payments sectors (households, imports, etc.). Alternatively, an input-output model describes interindustry relations by depicting how the output of each industrial sector of the regional economy is allocated among other regional industrial sectors and final demand sectors (households, exports, etc.). Thus, an input-output model provides a detailed description of the regional economy by dividing the economy into industrial sectors and showing the dollar flow of goods and services among sectors of the economy. The information flow shows what inputs are required by a given sector to produce its output.

The economy of a region is schematically shown in Figure 1 which indicates the general flow of economic activity within a region. The flow shows the movement of goods and services from one major component of the regional economy to another with money payments for these goods and services moving in the opposite direction. A regional input-output model measures the transactions among the five general economic components in Figure 1 with special emphasis on those transactions occurring among industrial sectors which comprise the interindustry component of the regional economy. The interindustry component of the regional economy primarily refers to private business activities within the region. In input-output schema, this component is disaggregated into individual industrial sectors such as facility construction, food processing, and legal services. The household component of the regional economy includes individuals and families who reside in the region and sell primarily their own labor while buying consumer goods and services. The government component includes local, state, and federal governmental units both within and outside the region that provides public services to regional firms and households that are paid taxes by regional firms and households and that purchase goods and services in the region. The capital component of Figure 1 accounts for sales to and purchases from firms both inside and outside the region on capital account. The outside world component is comprised of exporting and importing activities of regional firms and households with business activities located outside the region. The solid line of Figure 1 represents the regional boundary and, as indicated above, the government and

Figure 1. The flow of goods and services in a regional economy^a



^aAdapted from Edgar M. Hoover, An Introduction to Regional Economics, p. 227.

capital components are partly inside and partly outside the region.

The North Central Texas economy, like most regional economies, is characterized by numerous complex interrelationships. The Dallas-Fort Worth economy, which dominates the economy of the region under study, is known for its specialization in the production of defense goods, the provision of wholesale distribution services, and the provision of financial services. Many of the goods and services produced by the regional economy are exported. Certain goods and services must also be imported to meet the demands of the regional population, as well as the needs of regional industries. The external or trade relationships represent only part of the information required to describe the economy of a region. Information is also required about the interrelationships among industrial sectors of the regional economy. That is, what are the sources of inputs for a given regional sector and which sectors buy its output? Thus, the problem with which this study deals is the provision of information which will permit government and industry to better understand the structural interrelationships among sectors of the regional economy and the trading that must take place if final demand of the present population is to be met. The ultimate purpose of estimating such relationships is to use the relationships in forecasting the production requirements to meet the demands of future populations.

Private and public sectors of the regional economy will find the model presented in this report to be a valuable tool in guiding policy makers in studies where interdependence of activities in the economy is important to the analysis. Studies using this report to determine regional growth potential, taking into account changing industrial structure in the region, should be of interest to both private and public sectors of the regional economy. Of special interest to the private sector will be research projects using this study to (a) identify long-range investment opportunities, (b) examine the basic economic structure of an industry, (c) analyze competitive marketing conditions for an industry, (d) delineate growth trends in an industry, and (e) project the demand for basic materials, labor, power and fuel. Officials of local governments will be interested in studies which use this model to (a) analyze the impact of changing government policies (e. g. taxes), (b) analyze regional manpower problems and opportunities, (c) assess the impact of projected regional development on the existing system for the provision of public goods (e.g. public schools, transportation, water, sewage), and (d) assess the impact of a new or expanded government activity (e.g. a new university or a regional airport) on the regional economy.

B. ORGANIZATION OF THE REPORT

Section II of this report delineates the region and summarizes major facts concerning the region's population and labor force. The size of the region's population influences the level of household consumption in the region which is a major component of the input-output model. Trends in the total population of the region during the past 70 years are provided as well as population by county in 1970. Data on employment are presented by major industrial category to provide an overview of the structure of the regional economy.

Section III provides a brief discussion of input-output methodology. The discussion is designed to acquaint the reader with general concepts and definitions associated with input-output models. Section IV begins with a summarization of the steps involved in estimating the regional input-output model. Appendix A contains additional detail for the interested reader. The remainder of Section IV presents the results of the study which are summarized in three tables: the input-output transactions table, the table of input coefficients, and the table of interdependence coefficients. The transactions table presents an estimate of each economic sector's sales and purchases transactions and the total value of output produced by each sector in 1967. Since 1967 was the most recent year for which complete censuses of manufacturing, business, transportation, and mineral industries were available, it was chosen as the study year. The table of input coefficients reflects the purchases from various regional sectors required to produce a dollar's worth of output by a given sector. The table of interdependence coefficients shows the total expansion in the output of regional industrial sectors required to support an additional dollar's worth of sales to final demand by a given sector.

Section V illustrates some types of analyses that can be made of the regional economy with use of the regional input-output model. The effect of household income and expenditures on the regional economy is developed in the first part of Section V. The second part of Section V demonstrates the use of the regional model in estimating the impact of a change in delivery to final demand by a particular sector of the regional model. The major emphasis in this part of the discussion is on a hypothetical decline in federal government defense expenditures.

The summary is presented in Section VI, with special emphasis on limitations of the model.

Appendix A provides definitions of the output of each sector of the model, as well as some detail of the data collection procedures. Appendix B provides a listing of sectors of the model as they are defined by Standard Industrial Classification (SIC) components. Estimates of employment in 1967 for each of the 108 industrial sectors of the North Central Texas Input-Output Model are presented in Appendix C. Appendix D provides some detailed statistics on the structure of the regional economy.

II. THE REGION

A. REGIONAL DELINEATION

For purposes of the Texas Input-Output Project, the state of Texas was divided into nine regions (Figure 2). With few exceptions the twenty-one multi-county planning regions defined by the Governor's Office in December, 1968, were used as "building blocks" in delineating the input-output regions.¹

The North Central Texas Region (Region 4) is composed of 31 counties. The region is 26,392 square miles in size (approximately the size of the state of West Virginia).

B. POPULATION OF THE REGION

Household income and consumption expenditure are major components of the regional input-output model. The level of household income and consumption expenditures is highly dependent upon the size of the population of the region. Discussion of the regional population centers around trends in total population during the past 70 years and the distribution of the population within the region.

The study region's population has tripled from 1900 to 1970 (Figure 3). Growth in population for the region as a whole closely parallels that of Dallas County and to a lesser extent Tarrant County -- the two largest counties in the region.

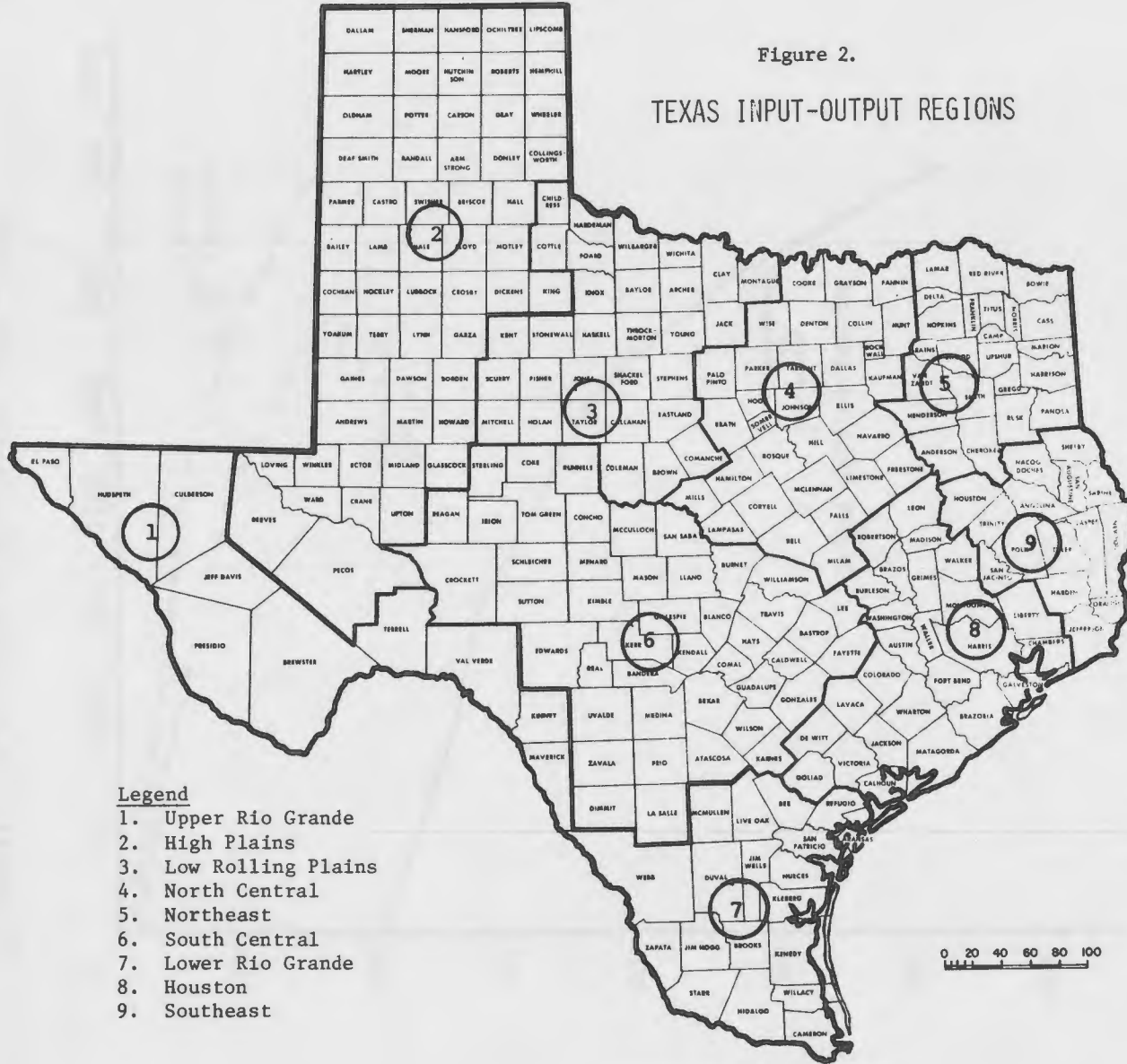
The North Central Texas Region had a population of 3,064,560 in 1970 which was twenty-seven percent of the state's population and approximately the same as the state of Washington. In comparison with the other eight state input-output regions, North Central Texas had the largest population. It had twenty percent more than the Houston region, the second largest.

Within the study region, the population is highly concentrated with eighty-four percent of the region's people living in four Standard Metropolitan Statistical Areas (SMSA's).² The Dallas SMSA is composed of six counties containing fifty-one percent of the region's population. The two-county Fort Worth SMSA, which lies west of and is contiguous to the Dallas SMSA, contains twenty-five percent of the regional population. Thus, the two SMSA's combined, representing the eight-county Dallas-Fort Worth metropolitan area,

¹For a discussion of delineating criteria and characteristics of each of these planning regions see "Planning Regions for the State of Texas," December, 1968, Office of the Governor, Division of Planning Coordination.

²An SMSA is defined by the Bureau of the Census as a county or group of contiguous counties that contain at least one city of 50,000 people or more, or twin cities with a combined population of at least 50,000.

Figure 2.
 TEXAS INPUT-OUTPUT REGIONS

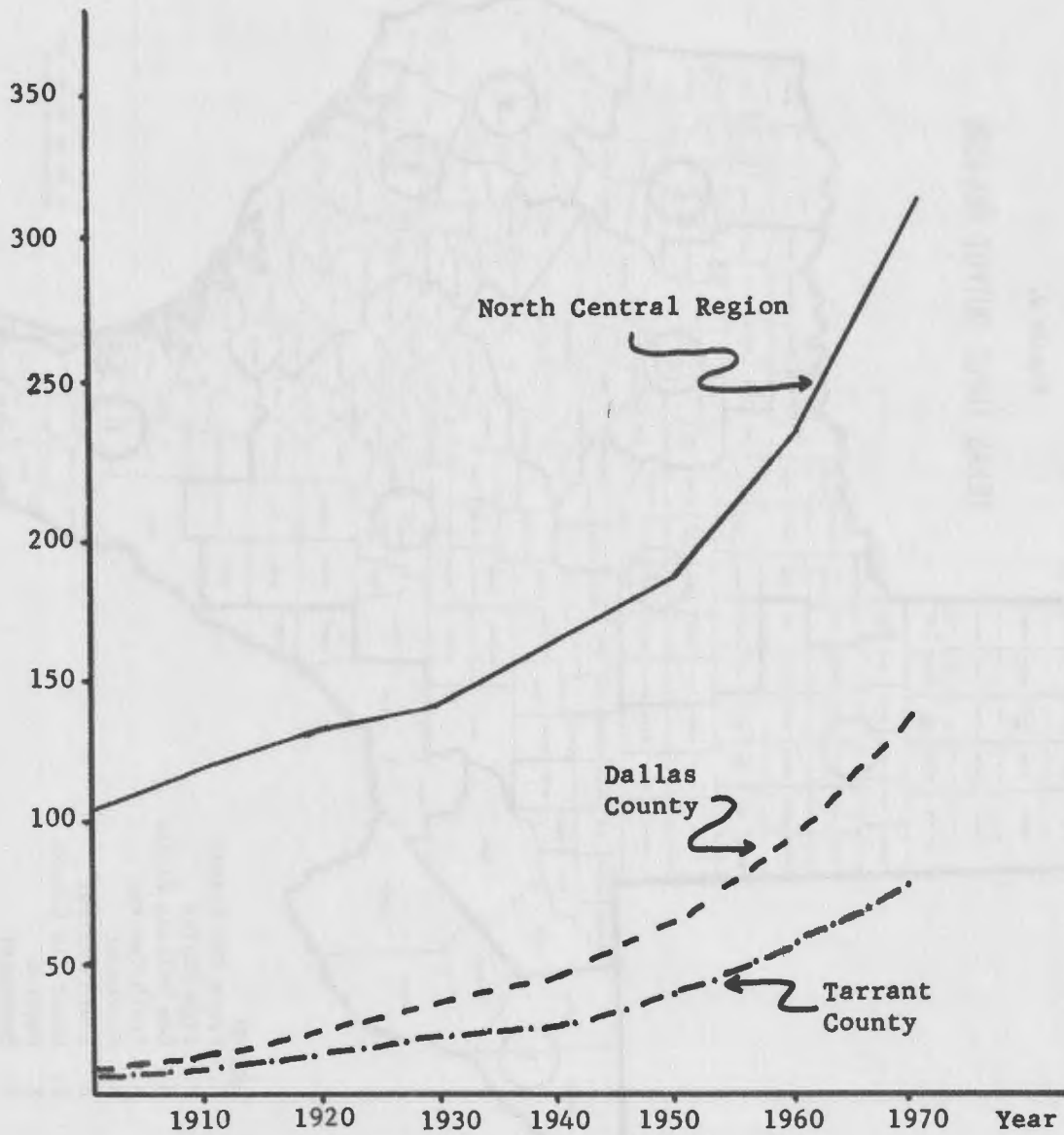


- Legend**
1. Upper Rio Grande
 2. High Plains
 3. Low Rolling Plains
 4. North Central
 5. Northeast
 6. South Central
 7. Lower Rio Grande
 8. Houston
 9. Southeast

0 20 40 60 80 100
 Miles

Figure 3. Total population - - North Central Region, ^a
Dallas and Tarrant Counties; Texas 1900 - 1970.

Population
(00,000)



^a Sources: U.S. Census of Population 1900 - 1970

contain 2,318,036 persons, or seventy-six percent of the total population of the region. The Sherman-Denison SMSA is a one-county area located in the northern portion of the region and contains three percent of the region's population. The one-county Waco SMSA is located in the southern portion of the region and contains five percent of the region's population.

The region's rate of population growth from 1960 to 1970 was twenty-nine percent compared to an eighteen percent increase for the state. This growth rate was second highest of the nine regions, with the Houston region only slightly higher at thirty-two percent. Regions 2 and 3 lost population from 1960 to 1970.

In terms of the spatial distribution of population growth, it was also concentrated within the region as was total population (Table 1). Eleven of the region's 31 counties lost population during the 1960-70 period. In general counties with the largest percentage increases in population were located within the Dallas-Fort Worth labor market (approximate 50 mile commuting distance to either center) or contained a major military base.

C. LABOR FORCE OF THE REGION

Figure 4 summarizes trends in the composition of the labor force for ten broad industrial categories from 1930 to 1960. The percentage of total regional employment in mining, wholesale trade, retail trade, transportation, and utilities and communications has remained relatively stable during this time period. A slight percentage increase has occurred in services with the services category, as shown in figure 4, including persons employed in governmental agencies. The most significant changes have been the relative decline for agriculture and the relative increases for manufacturing and for F.I.R.E. (finance, insurance, and real estate). The percent of the region's total labor force employed in construction has also increased with some fluctuation. In some of these industries, capital inputs have largely offset or more than offset reductions in labor inputs.

A more detailed analysis of regional employment in 1967 is presented in Appendix C. Total regional employment was estimated at 890,523 in 1967, excluding most government employees and employees of regional households. Employment by major industrial category was as follows: Agriculture and agricultural services -- 33,385; mining -- 10,360; construction -- 56,904; manufacturing -- 278,858; transportation -- 47,883; utilities and communications -- 30,160; wholesale trade -- 78,727; retail trade -- 159,515; finance, insurance, and real estate -- 60,452; and services -- 134,337.

Table 1. Population by county -- North Central Region;
Texas 1960-70^a

County	1960	1970	Change 1960-1970	
			Actual	Per Cent
Collin ^b	41,247	66,920	25,673	62.2
Dallas ^b	951,527	1,327,321	375,794	39.5
Denton ^b	47,432	75,633	28,201	59.5
Ellis ^b	43,395	46,638	3,243	7.5
Kaufman ^b	29,931	32,392	2,461	8.2
Rockwall ^b	5,878	7,046	1,168	19.9
Tarrant ^c	538,495	716,317	177,822	33.0
Johnson ^c	34,720	45,769	11,049	31.8
Grayson ^d	73,043	83,225	10,182	13.9
McLennan ^e	150,091	147,553	- 2,538	- 1.7
Bell	94,097	124,483	30,386	32.3
Bosque	10,809	10,966	157	1.5
Cooke	22,560	23,471	911	4.0
Coryell	23,961	35,311	11,350	47.4
Erath	16,236	18,141	1,905	11.7
Falls	21,263	17,300	- 3,963	-18.6
Fannin	23,880	22,705	- 1,175	- 4.9
Freestone	12,525	11,116	- 1,409	-11.2
Hamilton	8,488	7,198	- 1,290	-15.2
Hill	23,650	22,596	- 1,054	- 4.5
Hood	5,443	6,368	925	17.0
Hunt	39,399	47,948	8,549	21.7
Lampasas	9,418	9,323	- 95	- 1.0
Limestone	20,413	18,100	- 2,313	-11.3
Milam	22,263	20,028	- 2,235	-10.0
Mills	4,467	4,212	- 255	- 5.7
Navarro	34,423	31,150	- 3,273	- 9.5
Palo Pinto	20,516	28,962	8,446	41.2
Parker	22,880	33,888	11,008	48.1
Somerwell	2,577	2,793	216	8.4
Wise	17,012	19,687	2,675	15.7
Total North Central Texas Region	2,372,039	3,064,560	692,521	29.2

^aSource: U.S. Census of Population, 1960-1970

^bDallas SMSA counties. The Dallas SMSA population was 1,119,410 in 1960 and 1,555,950 in 1970. There was an increase in population from 1960 to 1970 of 436,540 persons or 39.0 per cent.

^cFort Worth SMSA counties. The Fort Worth SMSA population was 573,215 in 1960 and 762,086 in 1970. There was an increase in population from 1960 to 1970 of 188,871 persons or 32.9 per cent.

^dSherman-Denison SMSA

^eWaco SMSA

Figure 4. Percentage distribution of employment by major industrial classification, North Central Region; Texas 1930 - 1960

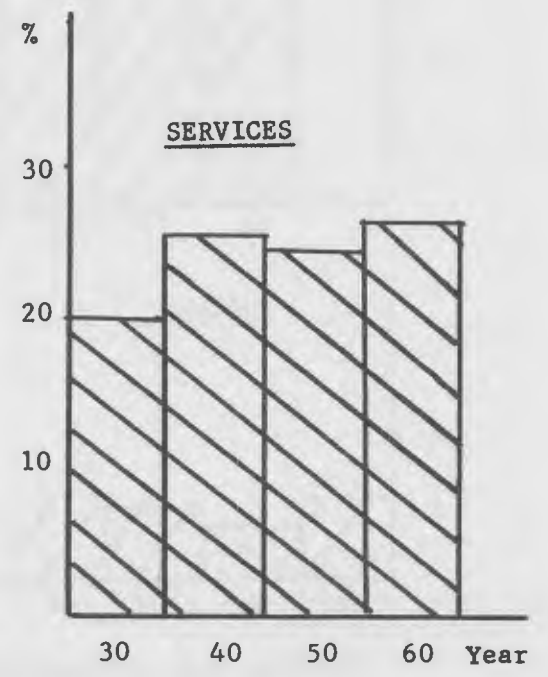
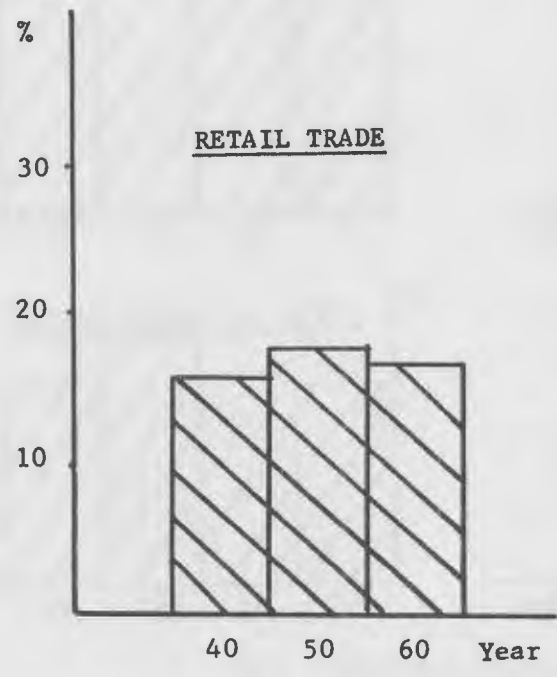
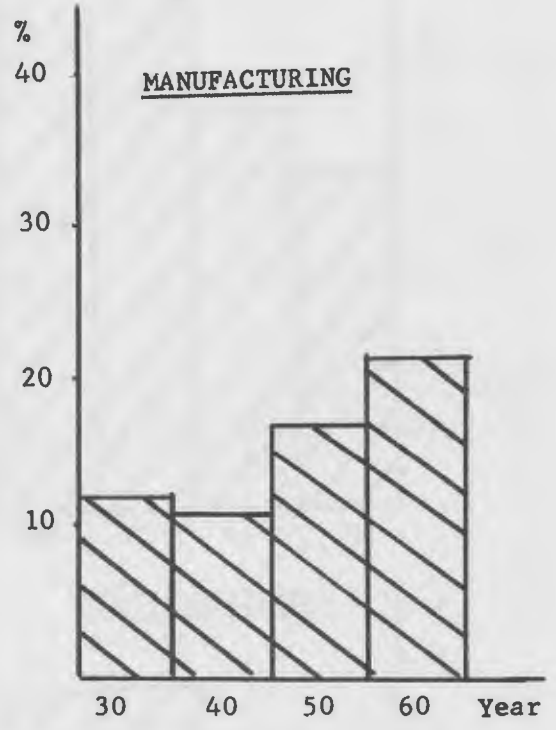
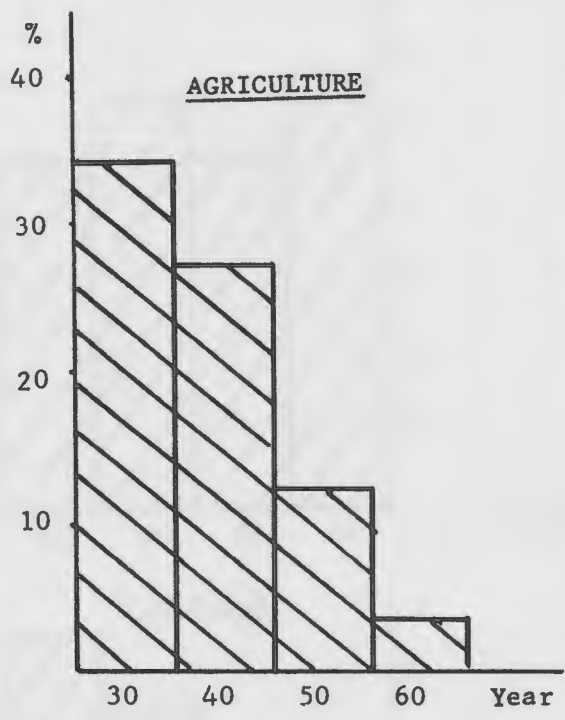
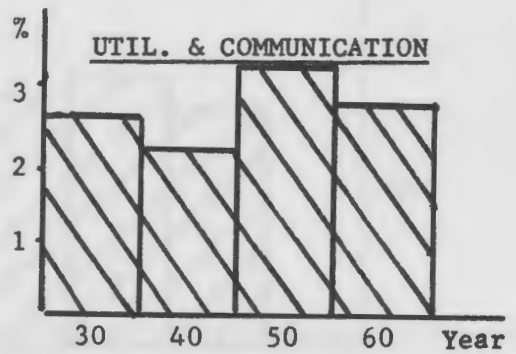
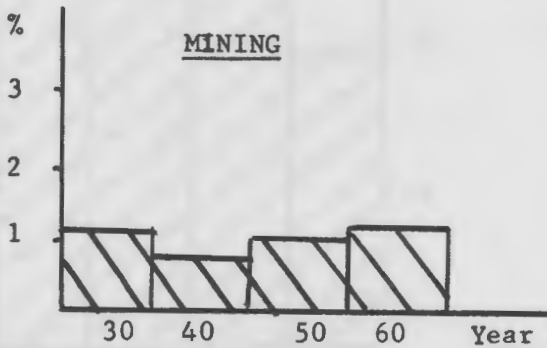
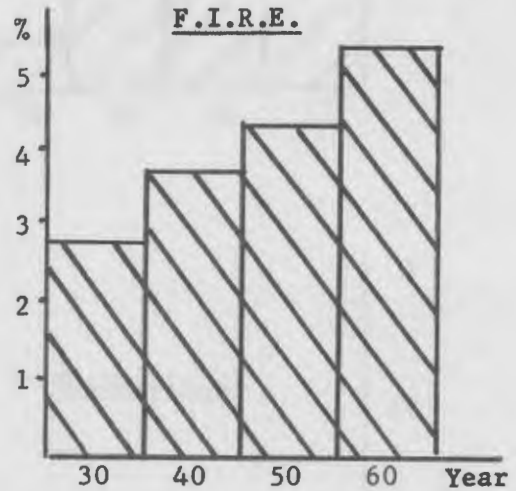
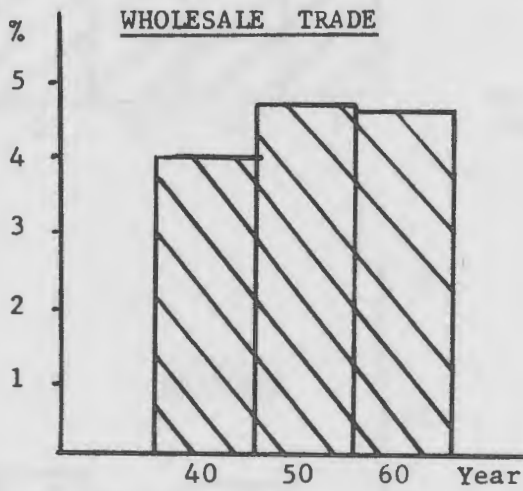
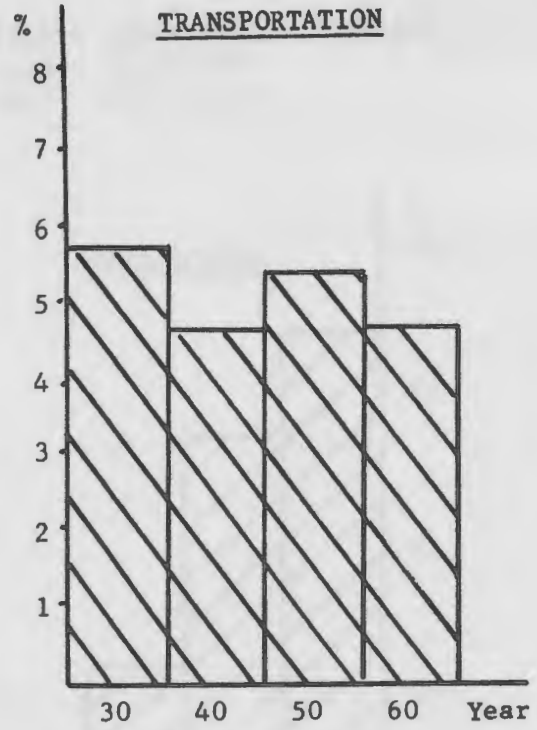
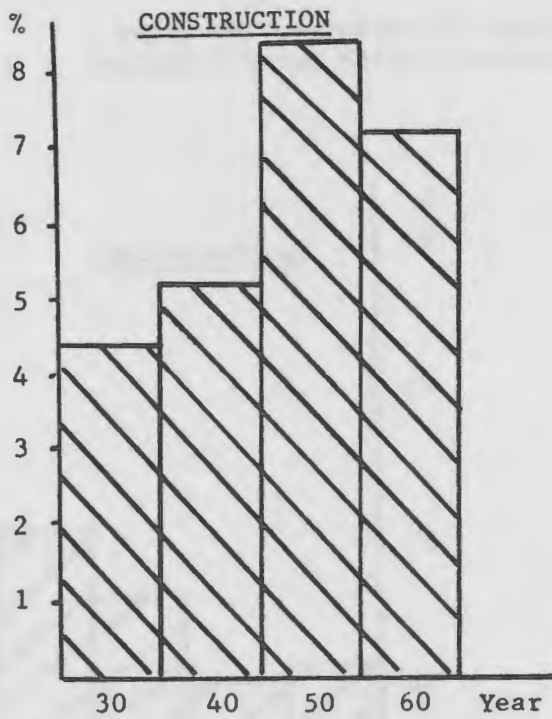


Figure 4: (Continued)



Sources: U.S. Census of Population 1930 - 1960

III. INPUT-OUTPUT METHODOLOGY

A. INTRODUCTION

The major objective of this study was to determine the degree of interdependence among industrial sectors of the North Central Texas economy. The problem of estimating this interdependence is one of determining the amount of inputs required from each industrial sector to produce one dollar's worth of output in a given industrial sector. Alternatively, the problem may be stated as one of determining the distribution of an industrial sector's output among other industrial sectors and among final demand sectors (government, households, etc.).

An input-output model is the analytical framework used in this study to determine the degree of economic interdependence among industrial sectors of the North Central Texas Region. In input-output analysis, the economy is disaggregated into industries (sectors) and the flow of goods and services among sectors is measured to indicate the relations among them. These relations are called input-output relations because they measure what inputs a sector requires to produce its output. The central concept of input-output analysis is that there is a fundamental relationship between the volume of output of an industry and the size of the inputs going into it.

An input-output model consists of three tables -- the transactions table, the input coefficients table, and the interdependence coefficients table. The purpose of this section of the report is to explain the method of analysis involved in these three tables.

B. TRANSACTIONS TABLE

Input-output or interindustry transactions accounts focus on interindustry relations at a production level. An input-output transactions table shows how the output of each industrial sector is allocated among other industries and sectors of the economy. It also indicates the inputs to each industry from other industries and sectors. Thus, the input-output table is a transactions table which is based on a system of double-entry bookkeeping.

Analysis of the interdependence of industries with an input-output table reflect the actual movement of commodities through the economy, these direct connections are lost as commodities continually pass through the trading (wholesale and retail) and transportation sectors of the economy. Since these direct connections are essential to showing the interdependence in an economy, flows of goods and services in the input-output table are generally expressed in terms of dollar value to the producer for presentation and analytical purposes. Most input-output tables, including the tables presented in this study, use this method of producer's values (producer's prices) so that the connections between final users and producers are traced.

The producer's value method charges commodities directly

from industry of origin to industry of destination without regard to the distributive (trade and transportation) sectors of the economy which are used. The distributive sectors are treated as producing the value of their services, as measured by their gross margins.³ With the producer's value method, each industrial sector pays the trade margins and transportation costs for its purchases of inputs. Thus, the output of an industry is valued F.O.B. shipper. For example, suppose that a furniture manufacturing firm purchases \$100 of office supplies that were produced by a business forms manufacturer which is located in the geographic region for which an input-output table is being constructed. The business forms manufacturer sold the office supplies to an office supplies wholesaler for \$60 and a railroad transportation company charged the wholesaler \$3 for delivery. The wholesaler re-sold the office supplies to an office supply retailer for \$75, adding \$12 to his cost of materials purchased for resale to provide for his operating expenses and profits. A motor freight transportation company charged the retailer \$2 for delivering the office supplies. The retailer, in turn, sold the office supplies to the furniture manufacturer for \$100 and paid a local delivery service \$1 for delivery to the furniture manufacturer. The retailer has added \$23 to his cost of materials purchased for resale to provide for his operating expenses, profits and transportation charge of \$1 for delivery. If the input-output table showed the furniture manufacturer purchasing \$100 of office supplies from the retailer, the direct connection between producers and users would be lost in the complexity of the distribution flows. It is the same complexity that input-output analysis describes. Clearly, in the input-output tables, the connections between producers and users must be clearly identified. Thus, the producer's values methodology shows the direct connection as follows: the furniture manufacturer purchased \$22 of services from the retailer, \$1 of services from the local delivery service, \$12 of services from the wholesaler, \$2 of services from motor freight transportation, \$60 of commodities (office supplies) from the business forms manufacturer, and \$3 of services from railroad transportation (the six purchases adding to \$100). The producer's prices method shows the \$100 purchase as purchases from six separate industries and clearly identifies the linkages or connections between producers and user.⁴

An input-output transactions table can be divided into four quadrants (Figure 5). Quadrant I is the processing or interindustry

³Gross margins are defined as total gross sales minus the cost of materials purchased for resale.

⁴For a discussion of the valuation problem and of an alternate methodology, purchaser's prices, see W. Duane Evans and Marvin Hoffenburg, "The Interindustry Relation Study for 1947", The Review of Economics and Statistics, XXXIV (May, 1952), pp. 102-104.

section of the table. A total of "n" industries are listed at the top and at the left hand side of this quadrant. For a given industry i, reading across the row gives the sales of that industry to all other industries in the regional economy. For example, the value in the cell where row "i" intersects with column "j" (x_{ij}) represents the sales of industry "i" to industry "j". The sales of industry "i" to "j", however, are also the purchases of industry "j" from industry "i". Thus, reading down the column for a given industrial sector gives the purchases of that industry from all other industrial sectors in the region.

A given industrial sector may sell some of its output to purchasers other than industrial sectors within the region. For example, households in the region may purchase some of the given industrial sector's output, and households and industries outside the region may purchase some of the output. Such sectors are termed final demand sectors and compose Quadrant II. The row total for a given industrial sector is the total gross output for that sector, which is equal to the sum of sales to industrial sectors plus the sum of sales to the final demand sectors valued in producer's prices.

A given industrial sector may purchase some of its inputs from sources other than industrial sectors within the region. For example, households may provide labor to the given industrial sector and industries outside the region may provide certain materials. Payments to households, to government, and to industries outside the region are termed "final payments sectors" and compose Quadrant III. The column total for a given sector is equal to the sum of purchases from the industrial sectors plus the sum of purchases from the final payments sectors valued in producer's prices and is termed total gross outlay for that sector.

Quadrant IV is the portion of the transactions table where final payments rows intersect final demand columns, and represents inputs to the final demand sectors that are not purchased from the processing or interindustry portion (Quadrant I) of the model. An example of this type of transaction would be households importing certain items; i.e. purchasing goods that were not produced in the North Central Texas Region.

Total gross outlay (input) must equal total gross output for each processing sector since within each processing industry all of the receipts from sales are paid out for goods and services purchased from other industries or sectors.

The sum of the final payments rows must equal the sum of the final demand columns so that for the entire regional economy, total outlays equal total output. It must be stressed that total gross output is not the same as gross national (regional) product. GNP (GRP) is defined as the market value of all goods and services produced in the economy during a given time period, and every effort is made to eliminate double-counting in its computation. That is, sales of final goods, not intermediate goods, are counted

in computing GNP (GRP). However, in the input-output table, an attempt is made to measure all transactions, including sales of intermediate goods, or as Miernyk states ". . .we deliberately double-count."⁵

⁵Miernyk, William H., The Elements of Input-Output Analysis, Random House, Inc., New York, New York, 1965, p. 15.

C. INPUT COEFFICIENTS

The logic of the input-output model is to establish the structural relationships among the processing sectors of the model. These relationships can be made clear by the development of an input coefficients (direct requirements) table. An input coefficient is computed from the processing portion (Quadrant I) of the transactions table by dividing the value in a column cell by the total gross outlay associated with the column. This computation may be stated more precisely as follows:

$$a_{ij} = \frac{x_{ij}}{X_j} \quad (i = 1, 2, 3, \dots, n), \quad (j = 1, 2, 3, \dots, n)$$

Where a_{ij} = the direct purchases by the j th purchasing sector from the i th producing sector per dollar of outlay (output) in the j th purchasing sector,

x_{ij} = the dollar value of the transaction between the i th producing sector and the j th purchasing sector,

X_j = total output (outlay) of the j th purchasing sector, and
 n = the number of processing sectors.

Thus, a_{ij} is an input coefficient, which tells us how much a given industry purchases from another industry of the same regional economy in order to produce one dollar's worth of output. Input coefficients are only calculated for the processing sectors.

Total interindustry requirements by a given sector to produce one dollar's worth of output can be determined by adding the coefficients in that sector's column. The coefficients represent the direct effects of changes in the volume of output of a particular sector upon the other sectors of the economy. That is, they represent only the "first round" of purchases. The direct effect tells us how much a given sector will have to increase its purchases of the output of other processing sectors when there is an increase in demand for the output of the sector.

D. INTERDEPENDENCE COEFFICIENTS

Due to the direct effect of additional output for a given industry, other processing sectors must supply additional inputs. To supply these additional inputs to the sector experiencing an increase in demand, the other sectors must expand their output. Therefore, they must purchase more of the output of other sectors, and so on. This "spread" effect was described in the presentation of the 1963 National I-O Model as follows:

The major contribution of input-output analysis is that it permits measurement of the industrial repercussion of a change in demand. The measurement of these repercussions can be illustrated by the following example which deals with an increase in consumer demand for passenger cars. This increase will lead in the first instance to an increase in

the output of the automobile industry. However, there will be further impacts. The increase in the output of the automobile industry will result in more steel production, which in turn will require more chemicals, more iron ore, more limestone, and more coal. The automobile industry will also demand more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. There will be even further reactions; for instance, the production of synthetic fibers and other chemicals will lead to the production of more electricity and containers.

These are only a few of the industrial repercussions resulting from the initial change in consumer demand for automobiles. Input-output analysis traces the intricate chain reaction throughout the industrial structure and measures the effects of all demand, both direct and indirect, on the output of each of the industries.⁶

The total effect (direct plus indirect), as presented in the interdependence coefficients, measures the total expansion of output in all sectors as the result of a one dollar expansion in the final demand of a given production sector.

A total requirements table is composed of interdependence coefficients which are computed by a matrix inversion process. The matrix of interdependence coefficients is found by subtracting the input coefficients matrix (A) from an identity matrix (I) and inverting. The resulting table of interdependent coefficients may be referred to as the $(I-A)^{-1}$ matrix, where the coefficients in a given column reflect the total dollar production directly and indirectly required from various industries to support each dollar of delivery to final demand by the industrial sector associated with that column.

Two major assumptions of input-output analysis should be noted. First, each commodity is supplied by a single industry or sector of production. This means that each industry produces only one homogeneous product. However, this can be interpreted rather broadly such that the good is ". . . a composite commodity which is made up of several items produced in fixed proportions."⁷ Second, resources are combined in fixed proportions in the production process and the use of the inputs expands in proportion to the level of output. Baumol notes that this second assumption is

⁶"Input-Output Structure of the U.S. Economy: 1963," Survey of Current Business, November, 1969, pp. 17-18.

⁷Baumol, William J., Economic Theory and Operations Analysis, 2nd ed., Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1965, p. 480.

a special case of constant returns to scale (as inputs are doubled, output will be doubled). However, the fixed-proportions assumption is far more restrictive.⁸ Substitution of one factor for another is consistent with constant returns to scale, but not with input-output analysis. The limitations resulting from these assumptions of input-output analysis will be discussed in the final section of this report.

⁸Ibid, p. 481.

IV. STRUCTURE OF THE NORTH CENTRAL TEXAS ECONOMY

A. INTRODUCTION

The purpose of this section is to present the results of the study. The structure of the North Central Texas economy is described in this study by an input-output model. The North Central Texas Input-Output Model is presented in three tables -- the input-output transactions table, the input coefficients table, and the interdependence coefficients table. Before presenting the model, the steps in estimating the model are briefly discussed.

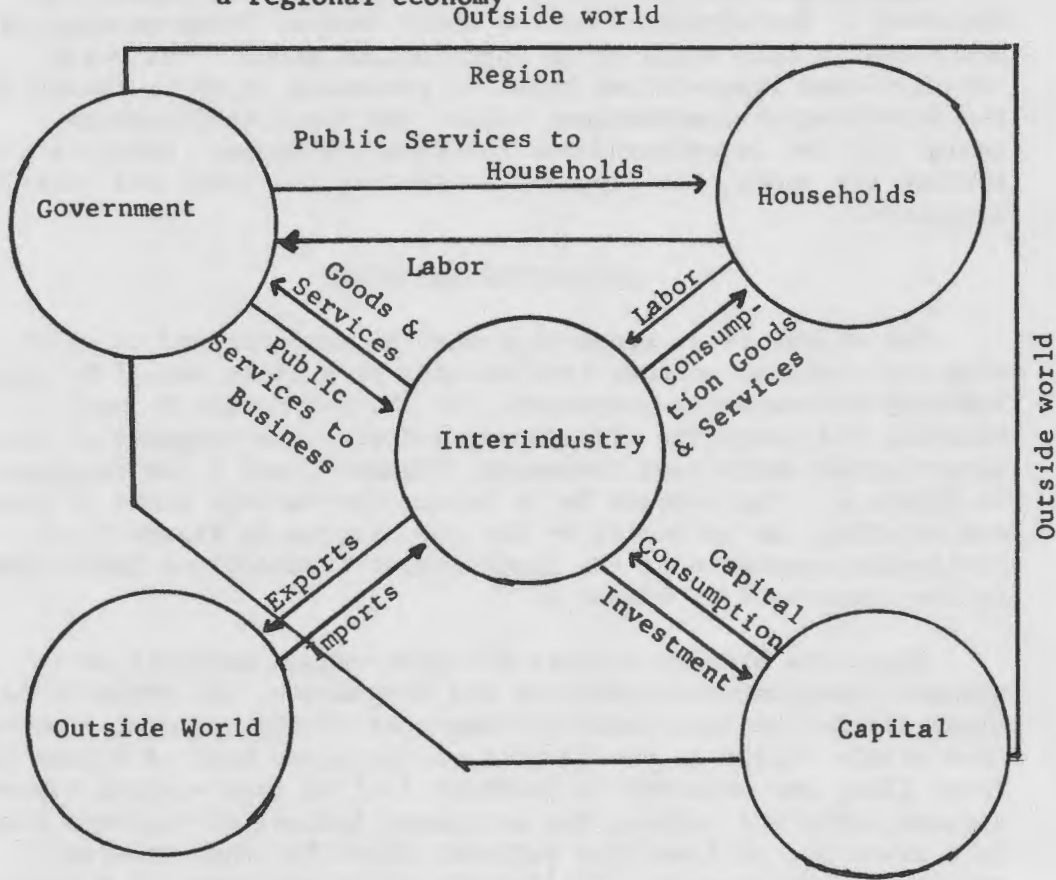
B. ESTIMATING THE MODEL

One of the first steps that must be accomplished is to divide the regional economy into sectors to provide detail by specific industry and economic component. To aid the reader in understanding the sectoring of economic activity for purposes of the input-output analytical framework, Figures 1 and 5 are repeated in Figure 6. Our concern is to relate the various flows of goods and services, as indicated by the top diagram in Figure 6, to particular quadrants of the input-output transactions table shown in the lower half of Figure 6.

Since the primary purpose of input-output analysis is to measure interindustry relations and dependence, the emphasis is on flows within the interindustry component of the regional economy (see middle circle in the diagram on the upper half of Figure 6). These flows are measured in Quadrant I of an input-output transactions table and reflect the purchases (sales) of regional firms in a given sector from (to) regional firms in other industrial sectors of the economy. The interindustry component of a regional economy largely refers to private business activities within the region and may be disaggregated into many industrial sectors such as feedlot livestock production, residential construction, textile mill products, etc. Throughout the data collection phase of the study, transactions were classified for 184 processing sectors for coordination of the nine regional projects in the state. After determining the regional "border total" (total gross output) for each of these sectors, some sectors that are relatively small in the North Central Texas region were combined. The final model contains 108 processing sectors and each of these sectors is defined in terms of four digit Standard Industrial Classification (SIC) components in Appendix B of this report.⁹ The number of sectors of the model by broad industrial category is as follows: Agriculture and Agricultural Services -- 9; Mining -- 2; Construction -- 5; Manufacturing -- 43; Transportation -- 7; Utilities and Communications -- 5; Wholesale Trade -- 6; Retail Trade -- 9; Finance, Insurance, and Real Estate -- 3; and Services -- 18.

⁹For industry classification and detailed description of industries see Executive Office of the President, Bureau of the Budget, Standard Industrial Classification Manual - 1967, U.S. Government Printing Office, Washington, D.C., October, 1967.

Figure 6. The input-output transactions table as a model of the flow of goods and services in a regional economy



		Interindustry or Processing Sectors					Final Demand	
		1	2	...	j	...	n	
Interindustry or Processing Sectors	1	x_{11}	x_{12}					Total Gross Outputs
	2							
	...							
	i				x_{ij}			
	n							
		Quadrant I					Quadrant II	
Final Payments		Quadrant III					Quadrant IV	
Total Gross Outlays								

Ideally, a sector is defined as one or more establishments with common input and output characteristics; that is, one or more establishments producing a homogeneous product or providing a single type of service. This ideal is seldom realized in practice and in the North Central Texas Input-Output Model certain compromises were made. In some cases, disclosure rules required the aggregation of establishments with unlike characteristics. In other cases, existing industrial classifications and data availability, especially for industry output totals, determined the sectoring.

With the exception of the construction sectors, an establishment approach is used in classifying firms in the 108 industrial sectors of the regional model. That is, an establishment or firm is classified in a particular industrial sector on the basis of its primary product. In the case of multi-product establishments, an establishment is classified in a particular industrial sector if its production of the primary products exceeds in value its production of products of any other single industrial sector. Therefore, with the exception of the construction and agricultural sectors, the value of output for an industrial sector in the regional model reflects secondary activities as well as primary activities of the establishments in that industrial sector. The activities of construction establishments are disaggregated on a functional basis. For example, a construction firm engaged in both facility and residential construction would have the value of its output divided between two sectors of the regional model -- Facility Construction and Residential Construction. Agriculture was sectorized by type of output.

Figure 6 shows a flow of goods and services from the inter-industry component of the regional economy to the household, capital, government, and outside world components. These flows are measured in Quadrant II of the transactions table and represent sales of regional industrial sectors to all economic components other than regional interindustry sectors. These economic components are termed final demand sectors in input-output analysis. The government component was disaggregated into four sectors for the North Central Texas Input-Output Model. A net inventory change sector was also included in this portion of the model to account for both the accumulation of unsold goods that were produced but not sold during the study year and the sale of goods during the study year that were produced in previous production periods. Eight final demand sectors were included in the regional model: Households, Capital Formation, Net Inventory Change, Federal Government Defense, Federal Government Non-Defense, State Government, Local Government, and Exports.

Regional industrial sectors do not obtain all of their inputs from other regional industrial sectors. Thus, Figure 6 shows a flow of inputs from the household, government, capital, and outside world components. These flows are measured in Quadrant III or the final payments portion of the input-output transactions table. Six final payments sectors were included in the model: Households,

Gross Savings, Federal Government, State Government, Local Government, and Imports. Final payments transactions measure the purchases of regional industrial sectors as they purchase labor from households, pay taxes and fees to the government, and import inputs from outside the region. Depreciation expense and corporate profits are accounted for by the Gross Savings sector.

Transactions can occur in a regional economy which do not involve the interindustry component. These transactions are measured in Quadrant IV of the transactions table and represent the interaction of final demand and final payments sectors of the model. For example, there are the flows between households and government in Figure 6. In addition to the flow of public services from the government to households and the purchases of households from regional industries, regional households from regional industries, regional households will also import certain goods and services. Local governmental units are also likely to import certain goods and services and there are interactions within the government component. The role of this quadrant in balancing the model is detailed in sub-section IV. C below.

The second step in building the model is to define and estimate the output of each sector. Defining the output of each sector means stating precisely what is to be included in the output of each sector and how it is to be measured. This problem is especially difficult for some of the final demand and final payments sectors. To directly relate consumers and processors, value of output is measured in terms of producer's prices rather than purchaser's prices (see discussion of producer's prices in sub-section III.B above). The difference between the two values being transportation costs and wholesale and retail trade margins. Thus, the output for the transportation and trade sectors is the value added to the goods through provision of time and place utility. See Appendix A for more detail on this point.

A discussion of the definitions of the sectors is presented in Appendix A. Estimates of sectoral output were largely calculated from secondary data. This is also discussed in Appendix A. The border totals were estimated for 1967, since the model was developed from data for that year.

The third step is to develop data for use in allocating the border totals across rows and down columns; i.e., to develop input coefficients. Several methods can be used to develop input coefficients at the regional level. One method is to apply national input coefficients to the gross outputs (border totals) of the sectors of the regional model. Differences in the industry mix of the region and nation make this a questionable procedure. A second method is to gather primary data through the use of questionnaires. The amount of time and budget required by this method can be reduced by using a "rows only" approach. With this approach, the matrix is built by determining from sample data the distribution of sales among sectors of the economy, and the collection of purchases data can be disregarded.

The method used in this study was to collect primary data by questionnaire for most of the sectors of the model. The "rows only" approach, however, was not used. Actually, two transactions tables were estimated from sample data -- a table based upon sales (row) information and a table based upon purchases (column) information for each sector. (The border total for a given sector in the sample transactions table was the sum of the total gross output of sample firms in that sector.) These two tables were then reconciled to provide one sample transactions table. It was the judgment of the authors of this report that the purchases or input sample data were, in general, more reliable than the sales data. A table of input coefficients was then estimated from the sample transactions table. In the case of small sample size for some sectors the coefficients were adjusted by comparison with national input coefficients and state averages, by conference with knowledgeable industry personnel and by the use of secondary data sources for particular industries.

Since field surveying was chosen as the basic method for completing the third step (determination of the distribution of sales and determination of sources of the inputs for each sector), several intermediate steps were involved.¹⁰ Questionnaires had to be developed and sample size and sample units determined. A brief description of this phase of the work is presented in Appendix A. The regional staff interviewed a total of 519 firms in the following sectors: manufacturing, wholesale and retail trade, services, utilities, mining, construction, and communications. For some of the other sectors, mail questionnaires were used by the staff of the state input-output project director.

The fourth step in building the model was to apply the sample input coefficients table to the border totals of the sectors to estimate the input-output transactions table for the region. Adjustments were required to balance the matrix. The matrix is balanced when the sum of each processing row is equal to the sum of its corresponding column and when the sum of the total gross outlays for all sectors of the model is equal to the sum of the total gross outputs for all sectors of the model. The Gross Savings row played a major role in balancing the regional model (see sub-section IV. C. below). The balanced input-output table for the North Central Texas Region is presented in the next sub-section (Table 2).

The fifth step was to develop a final direct requirements table (matrix of input coefficients) from the balanced regional input-output transactions table. This table (Table 5) is discussed in sub-section IV.D.

The final step was to derive the table of interdependence coefficients (the total requirements matrix) from the input

¹⁰Building of the model was not carried out exactly in this order. For example, field surveying for some sectors was completed before estimates of gross output were determined.

coefficients table through a matrix inversion process. This table (Table 6) will be presented in the sub-section IV.E. below.

C. READING THE INPUT-OUTPUT TRANSACTIONS TABLE FOR NORTH CENTRAL TEXAS

The transactions table for the North Central Texas economy for 1967 is presented in Table 2. The input-output transactions table for North Central Texas contains the production and distribution structure of individual economic sectors and the interrelationships among the sectors. The input-output table is sometimes referred to as a presentation of "production recipes" for each economic sector. These "recipes" identify the inputs which, during the year 1967, were required by the various industries in North Central Texas to produce goods and services. In a recipe, there is a fundamental relationship between the volume of output and the size of the inputs. For example, a recipe for omelets used by a housewife might state that for a family of four she would need a certain number of eggs, a certain amount of milk and a certain amount of salt. Implied, and certainly a part of the total recipe, would be a certain amount of labor, gas or electric energy, and capital equipment (range, skillet, spoon, etc). The fundamental relationships of output volume and input size is obvious if the reader will contrast the housewife's omelet recipe with the omelet recipe that might be used by an army cook who expects to feed 200 men. The size of the inputs would increase drastically in response to the additional output to be produced. And the army cook's recipe would probably state explicitly the labor, energy and capital requirements.

The "production recipe" for an omelet represents a production function in that it specifies the "real" mix of inputs needed to produce outputs. However, the "production recipe" measured by an input-output model must not be equated with industrial production functions. In the North Central Texas Input-Output Model, only the "real" inputs which are supplied to a regional economic sector by other regional sectors are specifically identified. To these inputs supplied internally in the region are added an external, aggregated input termed imports. The composition of the import input is ignored when describing intraregional interrelationships although its size is stated.

The North Central Texas transactions table is valued in producer's prices. This methodology, which clearly identifies the connections between producers and users, was explained in Section III. Using the producer's prices methodology, only those distributive services performed within the region are identified in the processing (interindustry) quadrant of the input-output table. With reference to the hypothetical example used in Section III to explain producer's prices, if the business forms manufacturer, the railroad transportation service, the wholesaler and one-half of the motor freight transportation service were located outside the region, there would be one entry of an input designated imports with a value of \$76, a composite of the "foreign"

Table 2. Input-Output transactions table -- North Central Region; Texas 1967

Table with multiple columns and rows, containing input-output transactions data for the North Central Region of Texas in 1967. The table is mostly illegible due to extreme fading and low resolution. Faint headers and data points are visible but cannot be accurately transcribed.

TABLE 2. TRANSACTIONS TABLE : NORTH CENTRAL , TEXAS, 1967 (MILLION DOLLARS)

	1	2	3	4	5	6	7	8
1 COTTON	1.223	0	0	0	0	0	0	0
2 CASH GRAINS	0	1.318	0	4.605	3.202	5.512	0	0
3 OTHER GRAINS	0	0	1.728	11.076	0.068	4.769	0	0
4 RANGE LVSTK.	0	0	0	0.066	11.136	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	1.400	0	0.480	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	2.424	0
8 AGSUP EXFAMA	2.547	2.676	1.642	3.105	0.234	1.170	3.103	0
9 AG SERVICES	5.080	1.693	0.113	1.715	0.064	1.540	1.155	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.401	0.490	0.234	1.000	0.006	0.590	0.840	0.116
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	2.993	1.578	10.316	18.835	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0	0	4.600	0.240	0	0	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0	0	0
24 LUM&WOOD PR	0.003	0.012	0.006	0	0	0	0.028	0
25 FURN & FIX	0	0	0	0	0	0	0	0
26 PAPER EX BOX	0.007	0.008	0.008	0.004	0.001	0.007	0.772	0.001
27 BOXS&CONTAIN	0	0	0	0	0	0	0	0
28 NEWSPAPERS	0	0	0	0	0	0	0	0.578
29 PUB&PRINTING	0	0	0	0	0.002	0	0	0.046
30 DRUGS,SPS&CL	0	0	0	0	0	0.202	0.123	0
31 OTH CHEMICAL	5.851	6.557	1.745	4.798	0.012	1.152	0.104	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.041	0.063	0.017	0.021	0	0.024	0.013	0.001
34 PLASTIC PROD	0	0	0.010	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0	0	0.051
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&GRC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0.082	0.079	0.064	0.116	0	0	0	0
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0	0	0	0	0	0	0	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0.003	0.007	0.003	0.009	0	0.009	0.009	0
55 AIRCRAFT&GORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0	0	0	0	0	0	0.007

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0	0	0	0
60	OTH MFG	0.007	0.002	0.006	0.002	0.001	0	0	0.012
61	RAIL TRANS	0.040	0.023	0.027	0.009	0.038	0.102	0.021	0.008
62	INTERCITY TR	0	0	0	0	0	0	0	0
63	MOTOR TRANS	0.064	0.063	0.047	0.006	0.095	0.174	0.068	0.006
64	AIR TRANS	0.003	0.019	0.018	0	0.005	0.001	0	0
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0	0.003	0	0.050	0.018	0
68	TELEP&TELEG	0.120	0.143	0.016	0.290	0.006	0.170	0.160	0.260
69	TV,RAD,COMM	0	0	0	0	0	0	0	0
70	GAS SERVICE	0.070	0.077	0.085	0.104	0.056	0.195	0.150	0.048
71	ELEC SERV	0.120	0.150	0.049	0.290	0.026	0.210	0.380	0.186
72	WT&SAN SER	0	0	0	0	0	0	0	0.029
73	WHL AUTO PTS	0.210	0.318	0.063	0.101	0.003	0.108	0.063	0.029
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0.041	0.061	0.101	0.676	0.300	0.587	0.952	0
76	WHL MACH&EQP	0.057	0.054	0.038	0.039	0.011	0.012	0.040	0.008
77	WHL PETROLEM	0.824	1.227	0.317	0.344	0.006	0.503	0.019	0.019
78	GEN WHL	1.969	1.976	0.867	2.924	0.009	0.548	0.426	0.044
79	BLD MAT	1.202	1.702	0.409	1.777	0.008	0.419	0.289	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.655	0.774	0.380	1.649	0.003	1.452	0.820	0.039
83	GAS SER STA	0.677	1.005	0.264	0.282	0.005	0.412	0.015	0.028
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0	0	0	0	0
87	OTH RETAIL	0.006	0.007	0.004	0.001	0.002	0.008	0.003	0.005
88	BK&CREDIT	0.571	0.655	0.516	2.015	0.355	0.435	0.690	0.272
89	INSURANCE	0.567	0.668	0.356	2.660	0.022	0.938	1.046	0.283
90	F.I.R.E	0	0	0	0	0	0	0	0.169
91	LEGAL SER	0	0	0	0	0	0	0	0.020
92	LODGE SER	0	0	0	0	0	0	0	0
93	PERSNL SER	0	0	0	0	0	0	0	0
94	ADV,DUP&AD	0	0	0	0	0	0	0	0
95	PHOTO&REC	0	0	0	0	0	0	0	0
96	OTH BUS SE	0.030	0.041	0.018	0.070	0.006	0.017	0.040	0.087
97	AUTO RENT,PK	0	0	0	0	0	0	0	0
98	REPAIR SER	0.040	0.041	0.034	0.090	0.001	0.390	0.060	0.116
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.100	0.121	0.062	0.242	0.001	0.146	0.134	0.006
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.926	1.126	0.573	2.251	0.009	1.358	1.246	0.057
103	COLL & UNIV	0.041	0.050	0.026	0.100	0.002	0.060	0.056	0.006
104	OTH ED SER	0.008	0.010	0.005	0.019	0	0.012	0.011	0
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT,ACD,&BK	0	0	0	0	0	0	0	0.032
107	OTH PROF SER	0	0	0	0	0	0	0	0
108	OTH SER	0	0	0	0	0	0	0	0
109	HOUSEHOLDS	15.986	18.468	25.441	35.046	0.333	8.993	3.169	9.964
110	GROSS SAVING	3.310	4.086	1.905	13.470	0.104	5.550	2.690	1.222
111	FED. GOVT.	0.360	0.350	0.543	0.780	0.025	0.370	0.120	0.725
112	STATE GOVT.	0.029	0.039	0.017	0.067	0.002	0.038	0.038	0.091
113	LOCAL GOVT.	0.916	1.115	0.566	2.231	0.009	1.346	1.235	0.057
114	IMPORTS	7.513	9.726	3.077	21.254	4.414	11.225	2.216	2.939
TOTAL INPUTS		51.700	57.000	41.400	124.300	22.400	61.600	43.581	17.567

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	9	10	11	12	13	14	15	16
1 COTTON	0.002	0	0	0	0	0	0	0
2 CASH GRAINS	0.003	0	0	0	0	0	0	0
3 OTHER GRAINS	0.003	0	0.001	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	1.500	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0.090	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	2.653	0	0	0	0.004	0	0
11 OILFIELD SER	0	6.520	0.010	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0.005	0	0.458	1.407	0.851	0.296	0.028
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0.006	0	0	0	3.647	0	0.242
16 MAINT&REPAIR	0.391	0.045	0.014	0.029	0.089	0.034	0.019	0.141
17 MEAT PROD	0.001	0	0.001	0	0	0	0.003	0
18 DAIRY PROD	0	0	0.001	0	0	0	0.002	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0.001	0
21 OTHFOODPROD	0.011	0	0	0.002	0.004	0.002	0	0.004
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.009	0	0.002	0.068	0.200	1.000	0.002	0.001
24 LUM&WOOD PR	0.004	0	0	23.000	1.339	3.421	0	10.115
25 FURN & FIX	0.002	0	0	0	0.025	0.162	0	2.111
26 PAPER EX BOX	0.004	0	0	0.001	0.094	0.040	0	0.088
27 BOXS&CONTAIN	0	0	0	0	0	0	0	0
28 NEWSPAPERS	0.015	0	0	0	0	0	0	0
29 PUB&PRINTING	0.105	0.050	0.001	0.432	0.344	0.047	0.101	0.321
30 DRUGS,SPS&CL	0.001	0.011	0	0.057	0.045	0.034	0.034	0.005
31 OTH CHEMICAL	2.862	0.064	0.001	2.644	6.042	1.090	0.295	3.883
32 PET REF	0	0	0	2.022	2.487	3.365	3.588	1.520
33 RUBBER PROD	0	0	0	0.056	0.009	0.031	0.006	0.063
34 PLASTIC PROD	0	0	0	0	0	0	0	0.007
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.005	0.163	0	13.318	25.156	5.558	67.712	3.926
37 PRIMARY MET	0.002	0	0	2.060	3.558	0.900	4.213	8.578
38 FAB STEEL	0	0	0	0.088	8.262	2.611	4.540	0.017
39 PLATE WORK	0	0.002	0	0.029	8.806	2.000	3.183	0.196
40 SH METAL&ARC	0.002	0	0	3.531	2.837	9.513	2.895	0.521
41 METAL DOORS	0	0	0	2.251	1.917	1.504	0	1.053
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0.014	0.001	0	14.073	11.022	2.035	1.927	5.832
44 ELECTROPLAT	0	0	0	0	0	0.089	0	0
45 OTH FAB MET	0.002	0.005	0	0.972	1.218	0.256	0.388	0.086
46 FM,CN,ID MA	0.114	0	0	0.255	0.258	0.183	0.048	0.016
47 MIN MACH	0	0.007	0.004	0	0	0	0	0
48 MET WK MACH	0	0	0	0.195	0.191	0	0	0.164
49 IND PRO MACH	0	0.014	0	0	0	0.171	0	0
50 ENG&GEN MACH	0.001	0	0	0.137	2.916	6.606	0.520	0.006
51 OTH MAC&EQUP	0	0	0.004	0.056	0.171	0.065	0	0.430
52 ELEC INS	0.002	0	0	1.297	3.974	1.474	1.041	1.379
53 ELEC COM	0.001	0	0	0.100	0.338	0	0	0
54 OTH ELEC APP	0.001	0	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.007	0.007	0.005	0.396	0.902	0.395	0.214	0.442

58 OTH TRAN EQ	0	0	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0.002	0.003	0	0	0	0	0	0
60 OTH MFG	0.021	0	0.002	0.180	0.024	0.153	0.011	0.125	0.125
61 RAIL TRANS	0.017	0.039	0.006	2.006	0.517	0.802	0.787	0.915	0.915
62 INTERCITY TR	0	0	0	0	0	0	0	0	0
63 MOTOR TRANS	0.014	0.075	0.008	2.903	1.348	0.421	3.407	1.526	1.526
64 AIR TRANS	0.053	0.009	0.072	0.034	0.015	0.614	0.015	0.018	0.018
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0	0.007	0	0.029	0.031	0.012	0.042	0.059	0.059
68 TELEP&TELEG	0.104	0.200	0.064	1.077	2.037	0.952	1.578	0.665	0.665
69 TV,RAD,COMM	0	0	0	0.003	0	0	0	0	0
70 GAS SERVICE	0.104	1.012	0.039	0.186	0.217	0.027	0.059	0.097	0.097
71 ELEC SERV	0.281	0.497	0.027	0.474	0.459	0.082	0.139	0.273	0.273
72 WT&SAN SER	0.029	0.012	0.018	0.088	0.182	0.010	0.026	0.101	0.101
73 WHL AUTO PTS	0.023	0.017	0.011	0.071	0.073	0.079	0.096	0.086	0.086
74 WHL GRO	0	0	0	0	0	0	0	0	0
75 WHL FM PROD	0.008	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	0.168	0.086	0.178	0.043	0.023	0.020	0.010	0.015	0.015
77 WHL PETROLEM	0.440	0.003	0.004	0.165	0.110	0.085	0.556	0.403	0.403
78 GEN WHL	0.158	0.008	0.009	7.000	5.000	1.480	0.419	5.037	5.037
79 BLD MAT	0.158	0	0	4.729	2.041	0.180	0.100	3.339	3.339
80 RTL TRD-GEN	0	0	0	0	0	0	0	0	0
81 FOOD STORES	0.005	0	0.004	0	0	0	0.009	0	0
82 AUTO DL&REP	0.119	0.020	0.056	0.596	0.476	0.304	1.153	0.644	0.644
83 GAS SER STA	0.033	0.021	0.001	0.302	0.510	0.170	1.364	0.419	0.419
84 APP&ACCESS	0.006	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0	0	0	0	0
86 EAT&DRINK	0.016	0	0	0	0	0.022	0.111	0.020	0.020
87 OTH RETAIL	0.006	0.002	0.001	0.050	0.063	0.011	0.323	0.144	0.144
88 BK&CREDIT	0.158	0.153	0.440	5.655	1.977	0.685	1.477	0.619	0.619
89 INSURANCE	0.163	0.033	0.005	4.616	13.663	2.613	10.790	1.405	1.405
90 F.I.R.E	0.002	0.255	0.002	0.042	0.190	0.036	0.034	0.592	0.592
91 LEGAL SER	0.003	0.272	0.002	0.198	0.637	0.161	0.060	0.279	0.279
92 LODGE SER	0.063	0	0	0	0	0	0	0	0
93 PERSNL SER	0	0.004	0.005	0	0	0	0	0.040	0.040
94 ADV,DUP&AD	0.040	0.022	0	0.202	0.652	0.193	0.088	0.502	0.502
95 PHOTO&REC	0	0	0	0	0	0	0	0	0
96 OTH BUS SE	1.037	1.274	0.013	0.016	2.733	3.031	0.777	2.585	2.585
97 AUTO RENT,PK	0	0.007	0.009	0	0	0.050	0	0.011	0.011
98 REPAIR SER	0.091	0.019	0.004	0.013	0.225	0.014	0.039	0.049	0.049
99 PHYS&DEN	0	0.015	0	0	0	0	0	0	0
100 HOS&LAB SER	0.005	0.060	0.002	0.074	0.045	0.015	0.110	0.027	0.027
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.042	0.558	0.017	0.689	0.417	0.138	1.027	0.248	0.248
103 COLL & UNIV	0.004	0.116	0.016	0.064	0.260	0.043	0.068	0.047	0.047
104 OTH ED SER	0	0.005	0	0.006	0.004	0.001	0.009	0.002	0.002
105 ENG & ARC	0	0	0	0.307	0.364	0.278	0.153	0.022	0.022
106 ACCT,ACD,&BK	0.054	0.068	0.049	0.199	0.311	0.081	0.579	0.387	0.387
107 OTH PROF SER	0.499	0.222	0	0	0	0	0	0	0
108 OTH SER	0.039	0.017	0.007	0.285	0.570	0.380	0.391	0.232	0.232
109 HOUSEHOLDS	5.112	29.518	6.752	91.905	105.018	32.287	108.640	43.342	43.342
110 GROSS SAVING	2.229	43.634	1.545	80.910	16.200	11.919	24.936	25.152	25.152
111 FED. GOVT.	0.431	2.309	0.356	21.913	9.052	4.401	61.854	3.458	3.458
112 STATE GOVT.	0.056	2.218	0.364	0.811	0.798	0.888	0.586	0.871	0.871
113 LOCAL GOVT.	0.041	0.553	0.017	0.683	0.412	0.137	1.018	0.245	0.245
114 IMPORTS	2.398	22.178	8.248	158.841	273.109	79.279	293.498	58.793	58.793
TOTAL INPUTS	19.384	115.073	18.400	454.892	523.374	189.142	607.367	193.969	193.969

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	17	18	19	20	21	22	23	24
1 COTTON	0	0	0	0	6.180	0	0	0
2 CASH GRAINS	0	0	31.298	0	0.602	0	0	0
3 OTHER GRAINS	0.102	0	0.093	0.128	2.344	0	0	0
4 RANGE LVSTK.	12.854	0	0	0	0	0	0	0
5 FEED LVSTK.	16.339	0	0	0	0	0	0	0
6 DAIRY	2.900	50.450	0	0	0	0	0	0
7 POULTRY&EGGS	21.900	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0.039	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 DILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.460	0.406	0.112	0.208	0.570	0.030	0.108	0.025
17 MEAT PROD	22.867	0	0	1.881	4.726	0	0	0
18 DAIRY PROD	0.047	7.332	0	1.745	2.298	0	0	0
19 GRN MILLPRD	2.913	0	0	9.691	18.461	0	0	0
20 BAKERY PROD	0.004	0	0	0.480	0.089	0	0	0
21 DTHFOODPROD	0.884	0.011	2.220	3.092	15.063	0	0.018	0.002
22 TEXTILE MILL	0	0	0	0	0	0.749	20.080	0
23 FAB TEX MILL	0.016	0	0.029	0	0.057	0	0.360	0
24 LUM&WOOD PR	0.100	0.002	0.001	0	0.173	0	0.122	0.442
25 FURN & FIX	0	0.002	0.001	0	0.003	0	0.025	0.002
26 PAPER EX BOX	1.859	0.668	0.785	1.654	1.064	0.063	0.648	0.426
27 BOXS&CONTAIN	10.747	4.149	0.382	1.275	30.525	0.060	3.081	0.011
28 NEWSPAPERS	0	0	0	0	0.480	0	0.007	0
29 PUB&PRINTING	0.421	0.017	0.177	0.750	1.387	0.023	0.188	0.015
30 DRUGS,SPS&CL	0.157	0	0	0.013	0.780	0.005	0	0.001
31 OTH CHEMICAL	0.083	0	0	1.067	0.106	0	0.806	0.077
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.035	0.001	0	0.009	0.002	0	0.004	0.053
34 PLASTIC PROD	0.330	0.001	0	0.017	0.017	0	0	0.002
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.193	0	0.514	0.011	7.616	0	0	0.025
37 PRIMARY MET	0	0	0	0	0	0	0	0.411
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0.005	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	18.163	0	0	0
43 PLU,HEAT&REF	0.067	0	0	0.003	0.025	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.003	0	0.034	3.357	0	0.022	0.081
46 FM,CN,ID MA	0.004	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0.033	0.043	0	0	0
50 ENG&GEN MACH	0	0	0	0.002	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0.001	0	0	0	0
52 ELEC INS	0	0.003	0	0	0.001	0	0	0.002
53 ELEC COM	0	0	0	0	0.001	0	3.036	0
54 OTH ELEC APP	0.008	0	0	0.009	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.067	0.051	0.005	0.019	0	0	0.014

58 OTH TRAN EQ	0	0	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0	0	0.013	0.008	0	0	0	0
60 OTH MFG	0.024	0.036	0.019	0.032	0.157	0	0.088	0	0
61 RAIL TRANS	0.803	0.188	1.296	0.478	1.839	0.418	0.982	0.589	0
62 INTERCITY TR	0	0	0	0.018	0.001	0	0	0	0
63 MOTOR TRANS	4.772	0.306	2.029	0.379	6.498	0.122	4.853	1.619	0
64 AIR TRANS	0.012	0.015	0.016	0.010	0.057	0.033	0.056	0.014	0
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0.025	0	0	0.034	0.081	0	0	0.008	0
68 TELEP&TELEG	0.366	0.261	0.533	0.241	0.713	0.081	0.530	0.270	0
69 TV,RAD,COMM	0	0	0.141	0	0.573	0	0	0	0
70 GAS SERVICE	0.701	0.084	0.223	0.483	0.686	0.193	0.176	0.226	0
71 ELEC SERV	1.334	1.244	0.925	0.630	3.171	0.881	1.006	0.382	0
72 WT&SAN SER	0.645	0.311	0.107	0.078	0.556	0.045	0.116	0.074	0
73 WHL AUTO PTS	0.058	0.022	0.073	0.042	0.049	0.014	0.019	0.032	0
74 WHL GRO	0.005	0	0	1.503	0.427	0	0	0	0
75 WHL FM PROD	1.350	0	0	0	0.082	0.017	0	0	0
76 WHL MACH&EQP	0.076	0.123	0.064	0.085	0.483	0.018	0.023	0.687	0
77 WHL PETROLEM	0.017	0.305	0.374	0.146	0.126	0.011	0.010	0.089	0
78 GEN WHL	0.143	0.419	0.233	0.034	0.092	0.014	3.632	0.305	0
79 BLD MAT	0	0	0	0	0.001	0	0.041	0.067	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0.001	0
81 FOOD STORES	0	0	0	0	0.008	0	0	0	0
82 AUTO DL&REP	0.487	0.288	0.268	0.787	0.233	0.025	0.063	0.117	0
83 GAS SER STA	0.059	0.010	0.046	0.505	0.120	0.014	0.005	0.033	0
84 APPE&ACCESS	0	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0.002	0	0.004	0	0
86 EAT&DRINK	0	0	0	0	0.013	0	0	0	0
87 OTH RETAIL	0.018	0.002	0.016	0.019	0.013	0.001	0	0.004	0
88 BK&CREDIT	0.798	0.506	0.106	0.221	0.338	0.030	1.008	0.725	0
89 INSURANCE	0.228	0.006	0.107	0.223	1.222	0.109	0.712	0.114	0
90 F.I.R.E	0.758	0.992	0.071	0.646	0.565	0	2.160	0.547	0
91 LEGAL SER	0.026	0.391	0.011	0.110	0.291	0.017	0.364	0.109	0
92 LODGE SER	0	0	0	0	0.038	0.037	0.002	0	0
93 PERSNL SER	0.845	0.213	0	0.661	0.014	0	0	0.025	0
94 ADV,DUP&AD	1.073	0.783	0.340	1.344	2.290	0.039	1.063	0.141	0
95 PHOTO&REC	0	0	0	0	0	0	0	0.011	0
96 OTH BUS SE	1.325	1.036	0.431	0.502	2.787	0.063	0.265	0.149	0
97 AUTO RENT,PK	0	0	1.502	0	2.331	0.030	0	0.161	0
98 REPAIR SER	0.087	0.286	0.974	0.033	1.911	0.093	0.009	0.080	0
99 PHYS&DEN	0	0	0	0	0	0	0	0	0
100 HOS&LAB SER	0.017	0.023	0.042	0.024	0.147	0.012	0.048	0.007	0
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.157	0.213	0.388	0.222	1.369	0.109	0.443	0.064	0
103 COLL & UNIV	0.017	0.023	0.032	0.016	0.247	0.013	0.059	0.014	0
104 OTH ED SER	0.001	0.002	0.003	0.002	0.012	0.001	0.004	0.001	0
105 ENG & ARC	0.035	0	0	0	0	0	0	0	0
106 ACCT,ACD,&BK	0.079	0.021	0.075	0.212	0.215	0.022	0.225	0.074	0
107 OTH PROF SER	0.055	0.139	0	0.028	0.804	0.028	0.111	0	0
108 OTH SER	0.358	0.441	0.036	0.115	0.080	0.007	0.063	0.046	0
109 HOUSEHOLDS	45.344	18.779	14.703	25.836	78.936	12.313	109.374	23.611	0
110 GROSS SAVING	8.101	10.377	7.440	9.208	36.415	5.541	24.718	2.203	0
111 FED. GOVT.	4.261	7.371	5.109	1.212	20.507	2.753	19.799	2.037	0
112 STATE GOVT.	0.249	0.331	0.354	0.155	2.511	0.202	0.964	0.273	0
113 LOCAL GOVT.	0.156	0.210	0.384	0.219	1.355	0.108	0.439	0.063	0
114 IMPORTS	222.890	29.818	110.711	27.354	223.063	18.912	149.933	37.170	0
TOTAL INPUTS	393.089	138.687	184.845	95.968	507.589	43.256	351.872	73.791	0

TRANSACTIONS TABLE : NORTH CENTRAL , TEXAS, 1967 (MILLION DOLLARS)

	25	26	27	28	29	30	31	32
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0.058	2.000
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.045	0.511	0.450	0.010	0.198	0.020	1.667	0.064
17 MEAT PROD	0	0	0	0	0	0	0.009	0
18 DAIRY PROD	0	0	0	0	0	0	0.023	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0.002	0.001	0.002	0.002	0	0.006	0	0
22 TEXTILE MILL	2.915	0	0	0	0	0	0	0
23 FAB TEX MILL	0.093	0	0	0	0	0	0.006	0
24 LUM&WOOD PR	2.242	0.001	0.581	0.001	0.006	0.006	0.178	0
25 FURN & FIX	0.016	0.001	0	0.002	0.012	0.007	0.011	0
26 PAPER EX BOX	1.231	1.010	1.590	0.183	0.193	0.244	0.710	0.001
27 BOXS&CONTAIN	1.246	1.765	0	0	1.997	2.665	0.438	0.012
28 NEWSPAPERS	0.072	0	0	0	0	0	0.008	0.087
29 PUB&PRINTING	0.097	0.420	1.200	1.531	14.030	1.589	0.082	0.035
30 DRUGS,SPS&CL	0	0	0	0	0.012	0.144	0.144	0
31 OTH CHEMICAL	0.966	2.014	0	0.759	1.402	0.114	10.271	0.175
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.071	0	0	0	0.007	0.001	0.001	0.001
34 PLASTIC PROD	1.397	0	0.008	0	0.005	0.275	0.318	0.002
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.039	0	0	0	0.034	0.054	0.523	0
37 PRIMARY MET	0.025	0	0	1.007	0.136	0	0.146	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0.001	0	0.014	0
40 SH METAL&ARC	0.178	0	0.004	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0.005	0	0	0.032	0	0.005	0
45 OTH FAB MET	0.356	0	0	0	0	0.197	0.522	0
46 FM,CN,ID MA	0	0	0	0	0	0	0.088	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.032	0	0	0.405	0.020	0	0.060	0
49 IND PRO MACH	0	0	0	0	0.126	0	0.001	0
50 ENG&GEN MACH	0	0	0	0	0.016	0	0	0
51 OTH MAC&EQUP	0	0	0.136	0	0.073	0	0.107	0
52 ELEC INS	0.034	0	0	0	0.009	0.009	0.005	0
53 ELEC COM	0	0	0	0	0.002	0	0	0
54 OTH ELEC APP	0	0	0	0	0.002	0	0.001	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.002	0.012	0.002	0	0.029	0	0.030	0.024

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0.006	0.001	0.005	0
60	OTH MFG	0.012	0	0	0.008	0.134	0	0	0
61	RAIL TRANS	0.328	0.424	0.577	0.983	0.619	0.327	0.817	0.332
62	INTERCITY TR	0	0	0	0	0.013	0	0	0
63	MOTOR TRANS	0.510	0.935	0.415	1.254	1.160	0.434	1.623	1.223
64	AIR TRANS	0.062	0.008	0.005	0.029	0.012	0.014	0.100	0.006
65	PIPE TRANS	0	0	0	0	0	0	0	0.885
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.035	0.004	0.008	0.041	0.046	0	0.007	0.006
68	TELEP&TELEG	0.370	0.464	0.467	0.545	1.055	0.965	0.624	0.098
69	TV,RAD,COMM	0	0	0	0.417	0	0	0	0
70	GAS SERVICE	0.275	0.348	0.191	0.248	0.266	0.440	1.370	0.366
71	ELEC SERV	0.570	0.990	0.398	0.624	1.235	0.385	1.178	0.378
72	WT&SAN SER	0.045	0.429	0.045	0.035	0.168	0.047	0.141	0.014
73	WHL AUTO PTS	0.017	0.017	0.037	0.072	0.023	0.010	0.028	0.008
74	WHL GRO	0	0	0.001	0	0.001	0	0.008	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.212	0.244	0.307	0.210	0.208	0.057	0.840	0.047
77	WHL PETROLEM	0.194	0.016	0.056	0.045	0.164	0.014	0.102	0.112
78	GEN WHL	0.292	0.179	0.087	0.393	1.406	1.161	0.713	0.034
79	BLD MAT	0.038	0.015	0	0	0	0	0.002	0
80	RTL TRD-GEN	0	0	0	0	0.002	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.222	0.115	0.142	0.133	0.103	0.051	0.031	0.131
83	GAS SER STA	0.010	0	0	0.040	0.111	0	0.067	0
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.137	0.079	0	0.034	0
87	OTH RETAIL	0.014	0	0	0	0.002	0.004	0.056	0.001
88	BK&CREDIT	0.631	0.586	0.299	0.297	1.906	0.225	0.853	0.413
89	INSURANCE	0.157	0.180	0.298	0.177	0.782	0.165	0.494	0.078
90	F.I.R.E	0.823	1.552	0.043	0.444	1.881	0.269	0.311	0.073
91	LEGAL SER	0.023	0.075	0.025	0.021	0.251	0.689	0.100	0.129
92	LODGE SER	0	0.001	0	0	0.014	0	0.022	0
93	PERSNL SER	0	0.064	0.018	0	0.083	0.422	0.082	0
94	ADV,DUP&AD	0.547	0.161	0.024	0.226	1.978	0.246	0.682	0.042
95	PHOTO&REC	0.017	0	0	0	0.535	0.004	0	0
96	OTH BUS SE	0.112	0.653	0.142	0.766	1.294	0.751	0.221	0.159
97	AUTO RENT,PK	0.225	0	0.064	0.043	0.065	0.177	0.080	0
98	REPAIR SER	0.014	0.495	0.008	0.065	0.667	0.063	0.241	0.011
99	PHYS&DEN	0.002	0	0.007	0	0.009	0	0	0
100	HOS&LAB SER	0.014	0.035	0.047	0.008	0.058	0.023	0.025	0.004
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.134	0.327	0.434	0.077	0.541	0.216	0.231	0.041
103	COLL & UNIV	0.021	0.022	0.022	0.011	0.048	0.017	0.041	0.089
104	OTH ED SER	0.001	0.003	0.004	0.001	0.005	0.002	0.002	0
105	ENG & ARC	0	0	0	0	0.042	0	0.004	0
106	ACCT, ACD, &BK	0.116	0.097	0.024	0.090	0.320	0.337	0.267	0.020
107	OTH PROF SER	0	0	0	0.056	0.272	0	0.144	0
108	OTH SER	0.057	0.071	0.008	0.097	0.108	0.086	0.194	0.057
109	HOUSEHOLDS	32.797	26.208	23.052	28.158	66.698	21.502	30.908	8.599
110	GROSS SAVING	4.631	6.713	7.466	7.480	4.571	21.875	19.796	4.215
111	FED. GOVT.	3.583	2.518	4.654	6.759	6.491	15.477	8.566	3.717
112	STATE GOVT.	0.371	0.202	0.076	0.185	0.590	0.202	0.711	2.099
113	LOCAL GOVT.	0.133	0.325	0.429	0.377	0.536	0.214	0.228	0.042
114	IMPORTS	56.178	66.036	55.998	21.683	79.423	60.540	102.150	26.270
TOTAL INPUTS		114.852	116.252	99.851	76.135	194.323	132.743	189.525	52.100

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	33	34	35	36	37	38	39	40
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0.332	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0.072	0.015	0	0	0
16 MAINT&REPAIR	0.146	0.085	0.020	0.226	0.835	0.065	0.300	0.014
17 MEAT PROD	0	0.023	0	0.004	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.002	0	0.004	0.001	0.001	0.001	0.001
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.036	0	0	0.030	0	0	0	0
24 LUM&WOOD PR	0.013	0.049	0	0.180	0.001	0.001	0	0.007
25 FURN & FIX	0.003	0.026	0	0.002	0.001	0.001	0.001	0.009
26 PAPER EX BOX	0.025	0.020	0	0.035	0.004	0.006	0.002	0.025
27 BOXS&CONTAIN	0.259	0.926	0.003	1.672	0.352	0	0	0.028
28 NEWSPAPERS	0	0	0	0	0	0	0	0
29 PUB&PRINTING	0.014	0.018	0.018	0.129	0.086	0.002	0.009	0.009
30 DRUGS,SPS&CL	0.004	0.024	0	0.009	0	0	0	0
31 OTH CHEMICAL	1.598	0.076	0.297	1.109	0.106	0.036	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.369	0.002	0	0.019	0	0	0	0
34 PLASTIC PROD	0.015	0.194	0	0.242	0	0	0	0
35 LEATHER PROD	0	0	0.077	0	0	0	0	0
36 GLS,ST,CL&CN	0.047	0.003	0	14.128	0.519	0.001	0	0.366
37 PRIMARY MET	0.267	0	0	0.919	0.273	1.655	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0.061	0	0	0	0	0	0.032	0
40 SH METAL&ARC	0.007	0.184	0	0.043	0.031	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0.002	0	0.025	0	0
44 ELECTROPLAT	0.005	0.018	0	0.007	1.469	0.386	0.085	0.204
45 OTH FAB MET	0.099	0.148	0	0.130	0.011	0.001	0.020	0.011
46 FM,CN,ID MA	0	0	0	0.001	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.003	0.116	0	0	0	0	0.090	0
49 IND PRO MACH	0	0	0	0.001	0	0	0	0
50 ENG&GEN MACH	0.012	0.028	0	0.046	0	0	0	0
51 OTH MAC&EQUP	0.062	0.150	0	0	0	0	0	0
52 ELEC INS	0.021	0.053	0	0.008	0.001	0.001	0.001	0.002
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0.001	0	0	0.002	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.016	0	0.003	0.003	0.001	0	0.013

58 DTH TRAN EQ	0	0	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0.003	0	0.003	0	0	0	0	0.001
60 OTH MFG	0	0.020	0	0.041	0	0	0	0	0
61 RAIL TRANS	0.316	0.303	0.033	2.424	3.907	0.189	0.048	0.108	0
62 INTERCITY TR	0	0	0	0.072	0	0	0	0	0
63 MOTOR TRANS	0.615	0.414	0.065	3.528	3.472	0.143	0.195	0.078	0
64 AIR TRANS	0.016	0.008	0.003	0.055	0.076	0.001	0.002	0.001	0
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WAREHOUS TR	0.001	0.003	0.002	0.007	0.015	0.014	0.008	0	0
68 TELEP&TELEG	0.121	0.280	0.021	0.998	0.459	0.209	0.049	0.126	0
69 TV,RAD,COMM	0.136	0	0	0	0	0	0	0	0
70 GAS SERVICE	0.243	0.319	0.012	5.541	1.158	0.103	0.149	0.089	0
71 ELEC SERV	1.383	0.988	0.092	3.814	4.161	0.203	0.345	0.074	0
72 WT&SAN SER	0.071	0.097	0.006	0.118	0.111	0.015	0.049	0.020	0
73 WHL AUTO PTS	0.011	0.014	0.002	0.089	0.010	0.012	0.013	0.007	0
74 WHL GRO	0	0	0	0.003	0	0	0	0	0
75 WHL FM PROD	0	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	0.312	0.260	0.017	1.654	0.385	0.230	0.063	0.073	0
77 WHL PETROLEM	0.021	0.036	0.004	0.220	0.017	0.011	0.009	0.025	0
78 GEN WHL	1.702	1.272	0.010	0.774	2.104	0.123	0.097	1.602	0
79 BLD MAT	0.181	0	0	0	0.010	0	0	0	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0	0
81 FOOD STORES	0	0	0	0	0	0	0	0	0
82 AUTO DL&REP	0.033	0.081	0.002	0.537	0.013	0.026	0.042	0.047	0
83 GAS SER STA	0.115	0	0	0.021	0.053	0.020	0	0	0
84 APP&ACCESS	0	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0.004	0	0	0	0	0
86 EAT&DRINK	0.010	0	0.004	0.008	0	0	0	0	0
87 OTH RETAIL	0.257	0.038	0	0.056	0.006	0.001	0	0	0
88 BK&CREDIT	0.241	0.145	0.036	0.535	1.723	0.570	0.422	0.151	0
89 INSURANCE	0.113	0.242	0.033	0.403	1.164	0.257	0.149	0.169	0
90 F.I.R.E	0.229	0.427	0.016	0.788	0.121	0.041	0.067	0.125	0
91 LEGAL SER	0.111	0.013	0.016	0.294	0.107	0.105	0.121	0.021	0
92 LODGE SER	0	0.006	0.001	0.023	0.001	0	0	0	0
93 PERSNL SER	0.045	0.002	0	0.106	0.265	0	0	0.012	0
94 ADV,DUP&AD	1.478	0.433	0.122	0.369	0.124	0.071	0.097	0.005	0
95 PHOTO&REC	0.025	0.002	0.002	0	0	0	0	0	0
96 OTH BUS SE	0.379	0.154	0.001	0.677	0.883	0.082	0.419	0.056	0
97 AUTO RENT,PK	0	0.025	0	0.537	0	0	0.019	0	0
98 REPAIR SER	0.037	0.981	0.002	0.130	0.147	0.204	0.039	0.072	0
99 PHYS&DEN	0	0	0	0.013	0.015	0	0	0	0
100 HOS&LAB SER	0.022	0.010	0.001	0.073	0.035	0.016	0.006	0.012	0
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.207	0.093	0.006	0.676	0.327	0.146	0.053	0.110	0
103 COLL & UNIV	0.013	0.009	0.004	0.113	0.031	0.012	0.008	0.012	0
104 OTH ED SER	0.002	0.005	0	0.006	0.003	0.001	0	0.001	0
105 ENG & ARC	0	0.005	0	0.054	0.001	0.367	0	0	0
106 ACCT,ACD,&BK	0.045	0.118	0.023	0.183	0.175	0.041	0.005	0.044	0
107 OTH PROF SER	0.072	0	0	0.139	0.005	0	0	0	0
108 OTH SER	0.032	0.012	0.001	0.141	0.152	0.015	0.008	0.071	0
109 HOUSEHOLDS	19.592	21.994	5.494	64.359	45.474	18.403	9.134	14.205	0
110 GROSS SAVING	2.363	10.658	0.382	17.901	30.808	2.508	1.452	3.441	0
111 FED. GOVT.	1.011	2.424	0.534	8.185	12.573	1.863	2.226	1.745	0
112 STATE GOVT.	0.107	0.111	0.104	2.007	0.396	0.135	0.135	0.176	0
113 LOCAL GOVT.	0.206	0.091	0.005	0.670	0.324	0.144	0.052	0.108	0
114 IMPORTS	32.543	48.165	7.068	82.289	105.465	40.590	19.562	25.480	0
TOTAL INPUTS	67.484	92.422	14.539	219.993	219.984	69.053	35.584	48.956	0

TRANSACTIONS TABLE : NORTH CENTRAL , TEXAS, 1967 (MILLION DOLLARS)

	41	42	43	44	45	46	47	48
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.022	0.071	0.536	0.063	0.025	0.078	0.418	0.081
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0	0	0.003	0	0	0.005	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0	0	0
24 LUM&WOOD PR	0	0	0.016	0.002	0.011	0.001	0.005	0
25 FURN & FIX	0	0	0.020	0.003	0.005	0.001	0.006	0
26 PAPER EX BOX	0	0.114	0.053	0.008	0.015	0.023	0.016	0
27 BOXS&CONTAIN	0.243	0.651	0.015	0	0.168	0.036	0	0
28 NEWSPAPERS	0	0	0	0.019	0	0.003	0	0
29 PUB&PRINTING	0.019	0.273	0.419	0.002	0.074	0.037	0.418	0.011
30 DRUGS,SPS&CL	0	0	0	0	0	0	0	0
31 OTH CHEMICAL	0	1.076	0.778	0	0.047	0.095	0.092	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0.041	1.168	0.001	0	0.005	0.073	0
34 PLASTIC PROD	0	0.427	2.963	0	0.018	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0.008	0.005	0
37 PRIMARY MET	0.028	1.194	0.182	0	1.778	1.980	0.001	0.010
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0.030	0	0
40 SH METAL&ARC	0	0.798	0.220	0	0	0	0	0
41 METAL DOORS	0.070	0	0	0	0.026	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0.173	0.741	0.073	0.021	1.278	0.025	0	0.094
45 OTH FAB MET	1.292	0.176	4.291	0.003	0.153	0.013	0.007	0
46 FM,CN, ID MA	0	0	0	0	0	0.006	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.092	0	0	0	0.012	0.094	0.678	0.022
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQU	0	0	0	0	0	0	0	0
52 ELEC INS	0	0	0.204	0.004	0.009	0.026	0.008	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0	0	0	0	0	0.006	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0	0.006	0.010	0	0.058	0.050	0.009

58 OTH TRAN EQ	0	0	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0	0	0	0	0.001	0	0	0
60 OTH MFG	0	0	0.007	0	0.002	0.004	0.007	0	0
61 RAIL TRANS	0.057	0.369	0.539	0.026	0.355	0.250	0.096	0.137	0
62 INTERCITY TR	0	0.029	0	0	0	0	0	0	0
63 MOTOR TRANS	0.074	1.410	0.806	0.045	0.508	0.988	0.611	0.132	0
64 AIR TRANS	0.002	0.036	0.023	0.001	0.015	0.026	0.005	0.057	0
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0.009	0.029	0.030	0	0.032	0.006	0.025	0	0
68 TELEP&TELEG	0.095	0.282	0.264	0.084	0.347	0.148	0.338	0.147	0
69 TV, RAD, COMM	0	0	0	0	0	0.005	0	0	0
70 GAS SERVICE	0.031	0.143	0.225	0.087	0.116	0.033	0.148	0.034	0
71 ELEC SERV	0.098	0.359	0.310	0.321	0.395	0.335	1.110	0.265	0
72 WT&SAN SER	0.011	0.037	0.059	0.044	0.081	0.019	0.074	0.013	0
73 WHL AUTO PTS	0.004	0.013	0.027	0.002	0.009	0.053	0.128	0.004	0
74 WHL GRO	0	0	0	0	0	0	0	0	0
75 WHL FM PROD	0	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	0.011	0.146	0.080	0.088	0.332	0.226	0.483	0.339	0
77 WHL PETROLEM	0.006	0.081	0.065	0.008	0.016	0.040	0.012	0.017	0
78 GEN WHL	0.038	0.878	3.430	0.489	1.039	0.364	1.056	0.028	0
79 BLD MAT	0	0.003	0	0	0	0.001	0	0	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0	0
81 FOOD STORES	0	0	0	0	0	0	0	0	0
82 AUTO DL&REP	0.019	0.018	0.047	0.014	0.062	0.030	0.011	0.012	0
83 GAS SER STA	0.020	0.026	0.002	0.003	0.010	0.018	0	0.011	0
84 APP&ACCESS	0	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0	0	0	0	0
86 EAT&DRINK	0	0.039	0	0	0.030	0.013	0	0.015	0
87 OTH RETAIL	0	0	0.005	0	0.009	0.012	0	0	0
88 BK&CREDIT	0.305	0.285	0.991	0.072	0.377	0.141	0.848	0.141	0
89 INSURANCE	0.168	0.884	0.057	0.203	0.366	0.468	0.009	0.202	0
90 F.I.R.E	0.329	0.097	0.496	0.023	0.192	0.177	0.178	0.222	0
91 LEGAL SER	0.009	0.017	0.026	0.074	0.085	0.518	0.065	0.011	0
92 LODGE SER	0	0.070	0	0	0.025	0.021	0	0.029	0
93 PERSNL SER	0	0.017	0.002	0	0	0.002	0	0	0
94 ADV, DUP&AD	0.109	0.102	1.812	0.025	0.069	0.158	0.032	0.014	0
95 PHOTO&REC	0	0	0	0	0	0	0	0	0
96 OTH BUS SE	0.039	0.040	0.681	0.017	0.089	0.068	0.590	0.039	0
97 AUTO RENT, PK	0	0.004	0	0	0.227	0.085	0	0	0
98 REPAIR SER	0.016	0.222	0.039	0.133	0.541	0.308	0.128	0.053	0
99 PHYS&DEN	0	0	0	0	0	0	0	0	0
100 HOS&LAB SER	0.007	0.007	0.018	0.002	0.018	0.009	0.032	0.008	0
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.060	0.063	0.167	0.022	0.169	0.080	0.295	0.075	0
103 COLL & UNIV	0.005	0.019	0.029	0.001	0.017	0.009	0.024	0.008	0
104 OTH ED SER	0.001	0.001	0.011	0	0.001	0.001	0.003	0.001	0
105 ENG & ARC	0	0	0.002	0	0	0.001	0.476	0	0
106 ACCT, ACD, &BK	0.063	0.108	0.097	0.004	0.176	0.032	0.029	0.088	0
107 OTH PROF SER	0	0	0	0	0.001	0.001	0	0.144	0
108 OTH SER	0.070	0.002	0.016	0.002	0.004	0.014	0.015	0.039	0
109 HOUSEHOLDS	6.362	8.504	27.449	5.842	16.790	12.752	38.310	13.021	0
110 GROSS SAVING	0.897	9.864	10.925	1.501	5.179	5.303	14.788	4.206	0
111 FED. GOVT.	0.343	3.013	11.312	1.159	3.542	3.688	4.625	2.759	0
112 STATE GOVT.	0.037	0.383	0.527	0.006	0.229	0.151	0.252	0.114	0
113 LOCAL GOVT.	0.059	0.062	0.167	0.022	0.169	0.079	0.291	0.074	0
114 IMPORTS	12.393	34.550	109.792	4.436	27.240	18.936	66.433	2.920	0
TOTAL INPUTS	23.686	67.774	181.479	14.876	62.484	48.092	133.315	25.606	0

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	49	50	51	52	53	54	55	56
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0.013	0	0.767	0	0	0
16 MAINT&REPAIR	0.340	0.011	0.007	0.224	0.304	0.019	8.611	0.584
17 MEAT PROD	0	0	0	0	0	0	0.002	0
18 DAIRY PROD	0	0	0	0	0	0	0.003	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0.002	0	0.001	0.001	0.018	0	0.053	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.001	0.027	0
24 LUM&WOOD PR	0.232	0.002	0.071	0.004	0.243	0	0.449	0.018
25 FURN & FIX	0.002	0.002	0.001	0.001	0.065	0	0.129	0
26 PAPER EX BOX	0.040	0.006	0.002	0.003	0.074	0	1.174	0
27 BOXS&CONTAIN	0	0.652	0	0.022	0.317	0	1.496	0
28 NEWSPAPERS	0	0	0	0	0	0	0.286	0
29 PUB&PRINTING	0.095	0.020	0.043	0.092	1.229	0.065	11.153	0.084
30 DRUGS,SPS&CL	0	0	0	0	0.086	0	0.247	0
31 OTH CHEMICAL	0.023	0	0	0.022	10.723	0.527	2.264	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0	0	0.082	0.009	0.011	7.150	0
34 PLASTIC PROD	0	0	0.005	0.112	0.131	4.348	4.903	0.097
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0.892	0.029	0	0.005	0	0.203	0
37 PRIMARY MET	0.157	0.142	0.066	2.284	0.737	8.540	2.391	4.883
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0.033	0.113	0	0	0.025	0	1.659	0
40 SH METAL&ARC	0	0.182	1.319	0	0.341	0	0.363	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0.745	0	0.401	0
43 PLU,HEAT&REF	0	0	0.829	0	0.230	0	2.459	0
44 ELECTROPLAT	0.098	0.326	0	0.055	0.311	0.032	1.351	0.040
45 OTH FAB MET	0.002	0.239	0.001	0.351	4.109	0.034	4.090	0
46 FM,CN,ID MA	0.006	0	0	0	0	0	0.602	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.329	0.007	0.131	0	0.116	0	1.403	0
49 IND PRO MACH	0.485	0	0	0	0.021	0	1.115	0
50 ENG&GEN MACH	0.137	0.009	0	0	0.038	0	0.053	0
51 OTH MAC&EQUP	0.001	0	0.500	0	3.260	0.002	1.004	0
52 ELEC INS	0.060	0.741	0.331	0.016	1.010	0.010	4.839	0
53 ELEC COM	0	0.004	0.008	3.726	5.079	0	35.229	0
54 OTH ELEC APP	0.006	0	0	0	0.759	0.097	0.385	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0.961	0
56 AIRCRAFT PAR	0	0	0	0	0	0	102.005	0
57 MOTOR VECH	0.004	0.002	0.022	0	0.003	0.002	0.389	0

58	OTH TRAN EQ	0	0.001	0	0	0	0	0.056	0
59	PROF, SC&CONT	0	0.141	0	0	1.777	0	4.069	0
60	OTH MFG	C	0	0	0.028	0.054	0.002	0.022	0.004
61	RAIL TRANS	0.184	0.115	0.117	0.260	1.503	0.195	2.807	0.129
62	INTERCITY TR	0.068	0	0	0	0	0	0.001	0
63	MOTOR TRANS	0.157	0.368	0.232	0.108	0.572	0.036	0.581	0.138
64	AIR TRANS	0.017	0.010	0.025	0.045	0.900	0.018	1.941	0.021
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.018	0	0	0	0.541	0	0.454	0.344
68	TELEP&TELEG	0.173	0.329	0.270	0.321	1.208	0.087	1.498	0.507
69	TV, RAD, COMM	0	0	0	0	0	0	0.049	0
70	GAS SERVICE	0.056	0.104	0.098	0.039	0.108	0.050	0.874	0.158
71	ELEC SERV	0.358	0.353	0.520	0.069	3.927	0.422	3.481	0.278
72	WT&SAN SER	0.017	0.032	0.044	0.019	0.119	0.036	0.178	0.040
73	WHL AUTO PTS	0.008	0.007	0.019	0.046	0.113	0.005	0.080	0.025
74	WHL GRO	0	0	0	0	0	0	0.001	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.413	0.067	0.434	0.092	0.129	0.037	9.858	0.228
77	WHL PETROLEM	0.005	0.003	0.001	0.007	0.119	0.002	1.238	0.004
78	GEN WHL	0.289	0.371	0.132	0.184	3.479	0.025	6.534	0.231
79	BLD MAT	0	0	0	0	0.005	0	0.204	0
80	RTL TRD-GEN	0	0	0	0	0.003	0	0.010	0
81	FOOD STORES	0	0	0	0	0	0.001	0.002	0
82	AUTO DL&REP	0.013	0.022	0.030	0.012	0.023	0.001	0.025	0.012
83	GAS SER STA	0.005	0.002	0.012	0	0	0	0	0
84	APP&ACCESS	0	0	0	0	0	0.002	0	0
85	FURNITURE	0	0	0	0	0.020	0	0.003	0
86	EAT&DRINK	0	0.005	0.023	0	0	0	0	0
87	OTH RETAIL	0	0.002	0.002	0.002	0.007	0.001	0.501	0.014
88	BK&CREDIT	0.529	0.139	0.319	0.760	3.341	0.400	1.964	0.106
89	INSURANCE	0.144	0.018	0.090	0.070	0.167	0.068	4.249	0.137
90	F.I.R.E	0.008	0.023	0.248	0.372	5.848	0.184	3.202	0.296
91	LEGAL SER	0.065	0.059	0.107	0.024	2.854	0.041	0.008	0.034
92	LDGE SER	0.013	0.002	0	0	0.023	0	0.074	0
93	PERSNL SER	0.031	0.025	0.022	0	0	0	0.129	0
94	ADV, DUPE&AD	0.030	0.014	0.255	0.151	0.296	0.077	1.984	0.144
95	PHOTO&REC	0	0.002	0	0	0.081	0	0.717	0
96	OTH BUS SE	0.009	0.010	0.676	0.269	0.450	0.158	2.854	0.041
97	AUTO RENT, PK	0.008	0.004	0	0.045	0.202	0.013	0.366	0
98	REPAIR SER	0.378	0.076	0.013	0.002	0.017	0.023	0.137	0.144
99	PHYS&DEN	0.022	0.025	0	0	0.027	0.034	0.033	0
100	HOS&LAB SER	0.006	0.001	0.009	0.007	0.112	0.003	1.274	0.004
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.053	0.011	0.087	0.069	1.063	0.031	7.634	0.038
103	COLL & UNIV	0.007	0.004	0.013	0.006	0.095	0.007	1.005	0.018
104	OTH ED SER	0	0	0.001	0.001	0.009	0	0.066	0
105	ENG & ARC	0.255	0.188	0.294	0	0.126	0	1.757	0
106	ACCT, ACD, &BK	0.070	0.045	0.081	0.055	0.024	0.080	0.072	0.031
107	OTH PROF SER	0.416	0.416	0.555	0.277	0.200	0.132	0.499	0.137
108	OTH SER	0.018	0.021	0.014	0.003	0.525	0.003	1.949	0.016
109	HOUSEHOLDS	17.172	12.891	23.357	14.104	234.232	8.250	671.864	28.528
110	GROSS SAVING	4.408	3.355	2.814	1.338	38.441	2.942	197.493	9.110
111	FED. GOVT.	3.572	2.738	0.714	1.947	25.016	2.363	146.626	4.057
112	STATE GOVT.	0.114	0.103	0.225	0.078	1.202	0.147	10.271	0.375
113	LOCAL GOVT.	0.054	0.012	0.085	0.069	1.031	0.032	7.546	0.037
114	IMPORTS	20.312	22.005	28.428	10.044	262.671	5.072	1097.357	80.908
TOTAL INPUTS		51.527	47.469	63.745	37.918	623.415	34.668	2394.446	132.000

TRANSACTIONS TABLE : NORTH CENTRAL *TEXAS, 1967 (MILLION DOLLARS)

	57	58	59	60	61	62	63	64
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	1.056	0.267	0.009	0.320	13.926	0.066	0.797	5.021
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.002	0	0.005	0.262	0.001	0.005	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0.008	0.006	0	0	0	0	0.239
24 LUM&WOOD PR	0.039	0.618	0.003	0.004	0.002	0.001	0.005	0.035
25 FURN & FIX	0	3.523	0	0.005	0.002	0.001	0.006	0.008
26 PAPER EX BOX	0.004	0.154	0.007	0.179	0.005	0.002	0.016	0.032
27 BOXES&CONTAIN	0.503	0	0.178	0.004	0	0	0.275	0.003
28 NEWSPAPERS	0	0.001	0.001	0	0	0	0	0
29 PUB&PRINTING	0.050	0.010	0.507	0.054	0.216	0.300	0.984	0.059
30 DRUGS,SPS&CL	0.002	0	0	0	0	0	0	0.008
31 OTH CHEMICAL	0.284	0.204	0.227	0	0	0	0	0.018
32 PET REF	0	0	0	0	1.400	0	0	0
33 RUBBER PROD	2.995	0.942	0.004	0.001	0.025	0.268	0.950	0
34 PLASTIC PROD	0	0	0.027	0.024	0	0	0	0.116
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.013	0.003	0.006	0.179	0.058	0	0	0.011
37 PRIMARY MET	0.873	6.723	0.066	0.989	3.166	0	0	0.207
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0.003
40 SH METAL&ARC	0	3.726	0.062	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0.033
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0.099
44 ELECTROPLAT	0	0.139	0.046	0.045	0	0	0	0
45 OTH FAB MET	0.010	0.357	0.064	0.249	0.002	0.001	0.007	0.034
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.023	0.006	0	0	0.183	0	0	0.027
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0.007	0	0	0	0	0	0.327
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.132	0.046	0.033	0.007	0.170	0.001	0.008	0
53 ELEC COM	0	0.025	0.013	0	0	0	0	0.054
54 OTH ELEC APP	0	0	0.001	0	0.007	0.042	0.047	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	1.410
57 MOTOR VECH	0.181	0	0.005	0.008	0.031	0.328	2.323	0

58 OTH TRAN EQ	0	0.048	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0	1.178	0	0	0	0	0	0
60 OTH MFG	0.002	0.006	0.010	0.018	0.003	0.007	0.010	0.006	0.006
61 RAIL TRANS	3.278	0.145	0.338	0.206	2.248	0.028	0.396	0.078	0.078
62 INTERCITY TR	0	0	0	0	0	0	0	0	0
63 MOTOR TRANS	4.226	0.352	0.310	0.455	1.184	0.056	13.006	0.258	0.258
64 AIR TRANS	0.155	0.015	0.035	0.029	0.201	0.001	0.005	2.575	2.575
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0	0.053	0.039	0.021	0.271	0	0	0	0
68 TELEP&TELEG	1.014	0.241	0.498	0.244	1.383	0.073	9.418	0.905	0.905
69 TV,RAD,COMM	0	0	0	0	0	0	0	0	0
70 GAS SERVICE	0.483	0.084	0.134	0.105	0.186	0.080	0.368	0.098	0.098
71 ELEC SERV	1.174	0.166	0.238	0.677	0.542	0.217	0.836	0.616	0.616
72 WT&SAN SER	0.079	0.031	0.049	0.060	0.504	0.037	0.305	0.016	0.016
73 WHL AUTO PTS	0.013	0.015	0.013	0.035	0.079	0.448	6.004	0.023	0.023
74 WHL GRO	0	0	0	0	0	0	0	0	0
75 WHL FM PROD	0	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	2.041	0.276	1.061	0.148	0.085	0.006	0.074	0.025	0.025
77 WHL PETROLEM	0.927	0.043	0.004	0.030	0.041	0.428	6.224	2.868	2.868
78 GEN WHL	3.286	2.300	0.057	0.937	0.339	0.110	1.044	1.526	1.526
79 BLD MAT	0.063	1.399	0.016	0	0	0	0	0	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0	0
81 FOOD STORES	0	0	0	0	0	0	0	0	0
82 AUTO DL&REP	0.240	0.023	0.018	0.061	0.073	0.400	3.093	0.002	0.002
83 GAS SER STA	0	0.032	0.014	0.022	0	0	0	0	0
84 APP&ACCESS	0	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0	0	0	0	0
86 EAT&DRINK	0	0.005	0.003	0	0	0	0	0	0
87 OTH RETAIL	0.362	0.013	0.004	0	0	0	0.014	0.011	0.011
88 BK&CREDIT	0.391	0.219	0.050	0.340	0.662	0.200	10.000	3.000	3.000
89 INSURANCE	0.327	0.052	0.371	0.236	0.181	0.708	14.006	2.468	2.468
90 F.I.R.E	0.356	0.161	0.648	0.470	2.282	0	14.003	0.557	0.557
91 LEGAL SER	0.043	0.028	0.288	0.038	0.600	0.170	5.417	0.800	0.800
92 LODGE SER	0.072	0	0.042	0	0	0	0	0	0
93 PERSNL SER	0.092	0	0.037	0.001	0.693	0	0	0	0
94 ADV,DUP&AD	0.017	0.171	0.393	0.217	0.194	0.768	7.138	1.115	1.115
95 PHOTO&REC	0	0	0	0	0	0	0	0	0
96 OTH BUS SE	0.303	0.730	0.051	0.094	0.716	0.037	0.135	0.089	0.089
97 AUTO RENT,PK	0.652	0.053	0.001	0	0	0	0	0	0
98 REPAIR SER	0.190	0.043	0.060	0.011	0.018	0.011	0.078	0.018	0.018
99 PHYS&DEN	0	0	0.004	0	0	0	0	0	0
100 HOS&LAB SER	0.032	0.005	0.020	0.016	0.148	0.007	0.087	0.008	0.008
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.295	0.051	0.223	0.150	1.380	0.067	0.813	0.072	0.072
103 COLL & UNIV	0.132	0.024	0.024	0.031	0.070	0.028	0.552	0.013	0.013
104 OTH ED SER	0.003	0	0.002	0.001	0.012	0.001	0.007	0.001	0.001
105 ENG & ARC	0	0.003	0	0	0	0	0	0	0
106 ACCT,ACD,&BK	0.131	0.009	0.121	0.029	0	0.124	4.052	0	0
107 OTH PROF SER	0	0	0	0.277	0	0	0	0	0
108 OTH SER	0.110	0.006	0.085	0.101	0.013	0.013	0	0.013	0.013
109 HOUSEHOLDS	60.413	23.574	26.080	16.957	62.413	13.267	141.598	91.925	91.925
110 GROSS SAVING	53.415	2.221	8.686	2.905	45.069	5.198	50.068	10.509	10.509
111 FED. GOVT.	32.254	2.124	5.113	2.623	9.394	1.737	10.678	13.049	13.049
112 STATE GOVT.	2.864	0.518	0.389	0.370	0.263	0.589	12.397	0.233	0.233
113 LOCAL GOVT.	0.291	0.051	0.181	0.150	1.368	0.065	0.805	0.070	0.070
114 IMPORTS	477.876	26.139	56.415	20.487	4.510	3.496	63.444	10.528	10.528
TOTAL INPUTS	653.767	78.190	104.568	50.625	156.580	29.388	381.498	151.219	151.219

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	65	66	67	68	69	70	71	72
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0.146	0	0	0	0	26.468	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.265	0	0.365	0.420	0.563	0.324	0.449	3.139
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.001	0	0	0	0	0	0.001
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.036	0.059	0.006
24 LUM&WOOD PR	0	0.001	0	0.001	0.025	0	0.002	0.006
25 FURN & FIX	0	0.001	0	0.008	0.015	0	0.001	0.001
26 PAPER EX BOX	0.055	0.002	0	0.043	0.055	0.057	0.055	0.050
27 BOXS&CONTAIN	0	0	0	0.007	0.005	0	0.017	0
28 NEWSPAPERS	0	0	0	0	0.150	0.144	0.300	0
29 PUB&PRINTING	0.022	0.012	0.040	0.428	0.204	0.009	0.066	0.045
30 DRUGS,SPS&CL	0	0	0	0	0.013	0	0.018	0.021
31 OTH CHEMICAL	0.001	0	0	0	0	0.005	0.005	0.909
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.002	0	0.015	0.034	0	0.001	0.010	0.045
34 PLASTIC PROD	0	0	0	0	0	0	0	0.020
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.168	0	0	0.039	0	0	0.069	2.118
37 PRIMARY MET	0	0	0	0.018	0	0	0.054	0.028
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0.003	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.001	0	0	0	0	0	0.012
46 FM,CN,ID MA	0	0	0	0	0	0	0.004	0.019
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0.020
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0.376	0	0	0	0	0	0.003	0.003
51 OTH MAC&EQUP	0	0	0	0.016	0	0.002	0.002	0.005
52 ELEC INS	0.089	0.001	0	0.114	0	0	0.264	0.086
53 ELEC COM	0.029	0	0	0.052	0.207	0	0.009	0
54 OTH ELEC APP	0.001	0.011	0.009	0.020	0.004	0.003	0.002	0.004
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.001	0	0.071	0.006	0.210	0.006	0.022	0

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0.086	0	0	0.001	0	0	0	0.003
60	OTH MFG	0	0.004	0.006	0.008	0.103	0.012	0.002	0.015
61	RAIL TRANS	0.007	0.009	0.086	0.060	0.007	0.012	0.672	0.028
62	INTERCITY TR	0	0	0	0	0	0	0	0
63	MOTOR TRANS	0.003	0.019	0.013	0.209	0.006	0.230	0.600	0.015
64	AIR TRANS	0	0	0.002	0.169	0.288	0.012	0.032	0.005
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0	0	0.033	0.081	0.080	0
68	TELEP&TELEG	0.005	0.145	0.239	0.500	0.554	0.769	0.770	0.159
69	TV, RAD, COMM	0	0	0	0	0	0.173	0.554	0
70	GAS SERVICE	0.092	0.042	0.035	0.252	0.046	0.449	38.620	0.079
71	ELEC SERV	0.169	0.172	0.818	1.305	0.329	0.111	0	3.999
72	WT&SAN SER	0	0.029	0.015	0.244	0.012	0.078	0.647	5.284
73	WHL AUTO PTS	0	0.748	0.183	0.073	0.016	0.101	0.120	0.014
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.011	0.014	0.006	0.989	0.047	0.226	0.222	0.774
77	WHL PETROLEM	0.002	1.040	0.079	0.029	0.015	0.058	0.126	0.097
78	GEN WHL	0.008	0.122	0.016	0.956	0.232	0.757	2.633	0.189
79	BLD MAT	0	0	0	0	0	0.003	0.060	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.003	0.100	0.180	0.121	0.013	0.729	2.786	0.113
83	GAS SER STA	0	0	0	0.041	0.015	0.230	0.162	0
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.010	0.070	0	0	0
87	OTH RETAIL	0	0	0	0.009	0.004	0.009	0.011	0.001
88	BK&CREDIT	0.004	0.300	0.929	0.818	0.303	0.685	1.049	0.112
89	INSURANCE	0.004	0.581	0.346	0.065	0.071	0.163	0.317	0.270
90	F.I.R.E	0.075	0.038	2.250	2.316	0.433	1.160	1.067	0
91	LEGAL SER	0.005	0.247	0.104	0.088	0.222	0.252	0.538	0.018
92	LODGE SER	0	0	0	0.049	0	0	0	0
93	PERSNL SER	0	0	0	0.047	0	0	0	0
94	ADV, DUP&AD	0	0.346	0.014	1.312	1.977	0.343	0.208	0
95	PHOTO&REC	0	0	0	0	0.112	0	0	0
96	OTH BUS SE	0.006	0.011	0.478	0.164	0.730	0.327	0.139	0.018
97	AUTO RENT, PK	0	0.202	0	0	0	0.008	0.008	0
98	REPAIR SER	0	0.003	0.010	0.038	0.072	0.597	0.300	0.098
99	PHYS&DEN	0	0	0	0.007	0	0	0	0
100	HOS&LAB SER	0.013	0.004	0.023	0.556	0.027	0.349	0.913	0
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.117	0.039	0.218	5.169	0.255	3.248	8.491	0
103	COLL & UNIV	0.010	0.003	0.015	0.464	0.016	0.241	0.599	0
104	OTH ED SER	0.001	0	0.002	0.103	0.002	0.047	0.073	0
105	ENG & ARC	0	0	0	0	0.036	0	0	0
106	ACCT, ACD, &BK	0	0.073	0.333	0.031	0.132	0.497	0.261	0.080
107	OTH PROF SER	0	0	0	0	0	0.164	0	0
108	OTH SER	0	0	0.037	0.013	0.102	0.087	0.069	0
109	HOUSEHOLDS	1.633	13.648	8.477	120.924	19.925	39.934	51.526	27.651
110	GROSS SAVING	3.144	0.730	1.347	14.032	4.806	31.304	92.228	17.651
111	FED. GOVT.	0.984	0.165	0.936	40.144	6.738	12.871	42.126	0.472
112	STATE GOVT.	0.120	0.012	0.135	5.796	0.123	2.695	5.626	0
113	LOCAL GOVT.	0.115	0.038	0.217	5.124	0.253	3.219	8.415	0
114	IMPORTS	0.232	0.764	0.491	21.435	8.130	40.061	4.673	0
TOTAL INPUTS		8.004	19.678	18.540	224.877	47.706	169.347	268.137	63.683

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	73	74	75	76	77	78	79	80
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0.003	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0.003	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.334	0.045	0.074	0.061	0.028	0.041	0.060	0.055
17 MEAT PROD	0.001	0	0	0	0.002	0.004	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0	0	0	0	0	0	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.007	0.001	0
24 LUM&WOOD PR	0.002	0.001	0.054	0.003	0	0.003	0	0
25 FURN & FIX	0.002	0.001	0.001	0.004	0	0.003	0	0
26 PAPER EX BOX	0.005	0.834	0.418	0.010	0.001	0.035	0.001	0
27 BOXS&CONTAIN	0	0.652	0.630	0	0	1.408	0	4.596
28 NEWSPAPERS	1.073	0	0	0.005	0.001	0.552	0.418	13.438
29 PUB&PRINTING	1.896	0.136	0.005	0.171	1.020	2.725	0.182	3.307
30 DRUGS,SPS&CL	0	0.010	0.003	0	0	0	0	0
31 OTH CHEMICAL	0	0	0.017	0	0.321	0.003	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.001	0	0	0.001	0	0.003	0	0
34 PLASTIC PROD	0	0	0.002	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0	0	0
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0.007	0	0
45 OTH FAB MET	0.002	0.009	0.001	0.004	0.001	0.004	0.001	0
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.003	0.001	0.001	0.005	0.001	0.005	0.001	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0.007	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	1.335	0.006	0.122	0.008	0.097	0.066	0.029

58 OTH TRAN EQ	0	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0	0	0	0	0	0	0
60 OTH MFG	0.034	0.015	0.003	0.008	0.013	0.014	0.018	0.055
61 RAIL TRANS	0.142	0.134	0.015	0.105	0.073	0.456	0.029	0.033
62 INTERCITY TR	0	0	0	0	0	0.331	0	0
63 MOTOR TRANS	0.966	0.164	0.533	0.993	0.510	2.611	0.068	0.043
64 AIR TRANS	0.058	0.026	0.039	0.047	0.003	0.070	0.008	0.021
65 PIPE TRANS	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0	0	0.246	0	0	1.999	0.079	0
68 TELEP&TELEG	1.685	0.804	0.263	7.295	0.736	6.775	0.471	1.751
69 TV,RAD,COMM	0.878	0	0.003	0.143	0	0.035	0.104	2.480
70 GAS SERVICE	0.121	0.153	0.124	0.274	0.089	1.051	0.103	1.219
71 ELEC SERV	0.672	1.041	0.689	1.663	0.366	4.966	0.658	3.877
72 WT&SAN SER	0.162	0.138	0.249	0.476	0.022	0.451	0.111	0.234
73 WHL AUTO PTS	0.292	0.354	0.011	0.066	0.016	0.037	0.009	0.007
74 WHL GRO	0	0	0	0	0	0	0	0
75 WHL FM PROD	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	0.012	0.010	0.005	0.019	0.006	0.003	0.012	0.007
77 WHL PETROLEM	0.044	0.108	0.045	0.082	0.022	0.195	0.023	0.011
78 GEN WHL	0.331	0.287	0.027	0.623	0.167	0.627	0.056	0.032
79 BLD MAT	0	0	0	0	0	0	0	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0
81 FOOD STORES	0	0	0	0	0	0	0	0
82 AUTO DL&REP	0.012	1.591	0.058	0.161	0.211	0.323	0.188	0.438
83 GAS SER STA	0.136	0.611	0.026	0.400	0.081	1.566	0.099	0.184
84 APP&ACCESS	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0	0	0	0
86 EAT&DRINK	0.026	0.047	0.012	0.263	0.015	0.243	0	0
87 OTH RETAIL	0.004	0.013	0.007	0.015	0	0.022	0.012	0.015
88 BK&CREDIT	3.124	0.353	3.368	3.655	0.427	8.210	1.239	1.909
89 INSURANCE	1.185	0.564	0.527	2.204	0.518	8.010	0.093	1.002
90 F.I.R.E	1.275	0.437	0.370	7.253	1.555	7.073	0.284	9.564
91 LEGAL SER	2.194	0.034	0.016	0.685	0.032	0.666	0.122	0.248
92 LODGE SER	0.509	0.087	0.013	0.395	0.028	0.156	0	0
93 PERSNL SER	0	0	0	0	0	0	0	0
94 ADV,DUP&AD	0.232	0.390	0.270	2.437	2.267	2.234	0.127	2.831
95 PHOTO&REC	0	0	0	0	0	0.555	0	0
96 OTH BUS SE	0.202	0.251	0.662	0.400	0.163	2.535	0.205	1.605
97 AUTO RENT,PK	0	1.290	0.102	0.248	0	2.273	0.006	0
98 REPAIR SER	0.140	0.409	0.544	1.680	2.279	0.580	0.038	0.045
99 PHYS&DEN	0	0	0	0	0	0	0	0
100 HOS&LAB SER	0.040	0.026	0.057	0.110	0.088	0.283	0.119	0.535
101 OTH MED SER	0	0	0	0	0	0	0	0
102 ELE&SECD SCH	0.368	0.242	0.530	1.021	0.814	2.624	1.107	4.978
103 COLL & UNIV	0.072	0.047	0.102	0.117	0.049	0.305	0.069	0.305
104 OTH ED SER	0.003	0.002	0.005	0.009	0.007	0.023	0.010	0.043
105 ENG & ARC	0	0	0	0	0	0	0	0
106 ACCT,ACD,&BK	0.702	0.068	0.102	2.003	0.114	2.091	0.220	1.403
107 OTH PROF SER	0	0	0	0	0	0	0	0.574
108 OTH SER	0	0.003	0.010	0.723	0.128	0.195	0.032	0.125
109 HOUSEHOLDS	55.800	70.462	10.676	171.386	11.103	297.220	35.729	171.243
110 GROSS SAVING	25.801	16.574	6.677	46.673	14.175	61.870	6.674	27.220
111 FED. GOVT.	14.831	6.170	1.689	37.795	7.009	40.903	4.136	22.916
112 STATE GOVT.	0.252	0.755	0.757	1.745	0.327	4.093	0.501	2.191
113 LOCAL GOVT.	0.365	0.240	0.526	1.012	0.807	2.601	1.097	4.934
114 IMPORTS	14.316	20.933	3.968	88.785	33.148	152.766	2.916	34.016
TOTAL INPUTS	130.305	127.864	34.544	383.355	78.751	623.938	57.502	319.519

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	81	82	83	84	85	86	87	88
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	1.340	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.821	0.668	0.948	0.178	0.020	0.045	0.321	3.088
17 MEAT PROD	0	0	0	0	0	28.689	0	0
18 DAIRY PROD	0	0	0	0	0	12.843	0	0
19 GRN MILLPRD	0	0	0	0	0	14.205	0	0
20 BAKERY PROD	0	0	0	0	0	2.135	0	0
21 OTHFOODPROD	0.006	0.013	0.001	0.001	0.001	3.724	0.003	0.087
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.013	0.066	0.002	0.001	0.002	0.024	0.004	0.015
24 LUM&WOOD PR	0.005	0.001	0.001	0.001	0.001	0.003	0.003	0.002
25 FURN & FIX	0.007	0.002	0.001	0.001	0.001	0.012	0.004	0.016
26 PAPER EX BOX	0.018	0.004	0.001	0.081	0.002	0.032	0.127	0.820
27 BOXS&CONTAIN	2.100	0	0	0	0	0	0	0
28 NEWSPAPERS	4.218	3.654	0.171	2.109	4.591	0.434	6.248	0.617
29 PUB&PRINTING	0.878	0.391	0.085	0.037	0.416	0.117	0.672	5.867
30 DRUGS,SPS&CL	0.010	0.125	0	0	0	0	0	0
31 OTH CHEMICAL	0.001	0	0	0	0	0	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.001	0	0	0	0	0.002	0.001	0.002
34 PLASTIC PROD	0	0	0	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0	0	0
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0.002	0	0	0	0	0	0.002	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0.054	0.002	0.001	0.001	0.001	0.014	0.004	0
46 FM,CN, ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.008	0.002	0.001	0.001	0.001	0.015	0.005	0.010
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0.008	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.155	0	0.001	0.041	0.010	0.212	0

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0	0	0	0
60	OTH MFG	0.068	0.080	0.148	0.094	0.093	0.233	0.400	0.400
61	RAIL TRANS	0.301	0.043	0.008	0.018	0.040	0.974	0.093	0.047
62	INTERCITY TR	0	0.017	0	0	0	0	0	0
63	MOTOR TRANS	0.223	0.062	0.072	0.062	0.087	0.109	0.272	0.116
64	AIR TRANS	0.002	0.019	0	0.006	0.015	0	0.006	0.028
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.860	0.035	0	0.029	0	0.027	0.865	0.025
68	TELEP&TELEG	0.602	2.832	0.171	0.454	0.695	0.189	2.654	4.159
69	TV, RAD, COMM	1.322	3.653	0.663	1.184	1.190	1.106	0.481	0.316
70	GAS SERVICE	1.085	0.359	0.513	0.459	0.198	3.650	1.550	1.276
71	ELEC SERV	8.086	0.688	2.161	2.202	1.175	5.644	5.525	1.863
72	WT&SAN SER	0.143	0.534	0.684	0.110	0.187	1.321	0.790	0.460
73	WHL AUTO PTS	0.033	0.394	0.052	0.011	0.009	0.005	0.011	0.015
74	WHL GRO	0	0	0	0	0	3.519	0	0
75	WHL FM PROD	0.260	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.018	0.039	0.009	0.007	0.009	0.045	0.019	0.241
77	WHL PETROLEM	0.050	0.069	0.071	0.003	0.064	0.003	0.041	0.018
78	GEN WHL	1.131	0.254	0.134	0.114	0.107	3.602	0.636	7.287
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0.038	0	0
82	AUTO DL&REP	0.056	0.343	0.012	0.016	0.454	0.014	0.282	0.011
83	GAS SER STA	0.009	0.076	0.032	0.010	0.135	0.037	0.131	1.020
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0	0	0	0	0
87	OTH RETAIL	0.009	0.004	0.005	0.003	0.009	0.013	0.017	0.008
88	BK&CREDIT	1.648	9.370	0.342	2.790	0.890	0.665	4.394	14.082
89	INSURANCE	1.283	3.263	1.269	0.186	1.046	1.825	1.404	1.886
90	F.I.R.E	2.716	5.950	3.514	1.890	4.410	1.373	10.390	5.375
91	LEGAL SER	0.048	0.426	0.013	0.240	0.268	0.190	0.768	2.291
92	LODGE SER	0	0	0	0	0	0	0	0
93	PERSNL SER	0.526	0.772	0	0.432	0.172	1.072	0	0
94	ADV, DUP&AD	0.426	1.381	0.078	0.193	0.199	0.198	0.982	9.939
95	PHOTO&REC	0	0	0	0	0	0	0	0.707
96	OTH BUS SE	4.474	0.466	1.083	0.151	0.090	3.479	0.797	20.993
97	AUTO RENT, PK	0	0	0	0	0	0	1.341	0
98	REPAIR SER	3.026	1.001	0.028	0.027	0.044	0.272	0.749	0.049
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.055	0.086	0.061	0.018	0.034	0.033	0.141	0.353
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.516	0.799	0.565	0.168	0.318	0.305	1.312	3.284
103	COLL & UNIV	0.068	0.095	0.073	0.017	0.023	0.056	0.098	0.217
104	OTH ED SER	0.004	0.007	0.005	0.001	0.003	0.003	0.011	0.028
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT, ACD, &BK	1.539	1.001	0.513	0.261	0.587	0.296	0.749	7.869
107	OTH PROF SER	0	0	0	0.011	0	0	0	0.065
108	OTH SER	0.125	0.012	0.087	0.139	0.032	0.100	0.225	3.330
109	HOUSEHOLDS	97.081	153.023	40.427	51.957	28.469	112.027	106.902	193.990
110	GROSS SAVING	17.428	18.043	8.992	4.241	6.134	8.775	29.304	164.285
111	FED. GOVT.	4.278	13.526	3.725	3.152	7.135	8.390	13.453	30.342
112	STATE GOVT.	1.095	1.461	1.165	0.232	0.212	1.044	0.998	1.824
113	LOCAL GOVT.	0.512	0.793	0.559	0.167	0.315	0.301	1.302	3.255
114	IMPORTS	64.399	21.543	0.761	1.792	4.030	84.899	14.340	100.690
TOTAL INPUTS		223.647	247.610	69.207	75.259	63.955	309.476	211.039	592.668

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	89	90	91	92	93	94	95	96
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0.004
3 OTHER GRAINS	0	0	0	0	0	0	0	0.005
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.853	23.542	0.041	2.899	0.552	0.016	0.970	0.004
17 MEAT PROD	0	0	0	0.445	0	0	0.639	0.001
18 DAIRY PROD	0	0	0	1.168	0	0	0.016	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.826	0.012	1.549	0.001	0.018	0	0.003
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0.150	0	0	0	0.010
24 LUM&WOOD PR	0.004	0.002	0.001	0	0.001	0.002	0.004	0.004
25 FURN & FIX	0.015	0.003	0.001	0	0.002	0.007	0.005	0.007
26 PAPER EX BOX	0.790	0.638	0.002	0.146	0.057	1.350	0.014	0.017
27 BOXS&CONTAIN	0	0	0	0	0	0	0	0.001
28 NEWSPAPERS	0	2.825	0	0.434	2.804	0	1.546	2.951
29 PUB&PRINTING	13.848	6.741	0.025	0.120	0.045	3.014	0.122	2.882
30 DRUGS,SPS&CL	0	0	0	0.512	0.158	0	0	0.243
31 OTH CHEMICAL	0	0	0	0.293	0.158	0.698	0	0.019
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.003	0	0	0.012	0	0	0	0
34 PLASTIC PROD	0	0	0	0.006	0.007	0	0.010	0.004
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0.001	0	0	0	0.010
37 PRIMARY MET	0	0	0	0	0	0	0	0.006
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0.009
44 ELECTROPLAT	0	0	0	0	0	0	0	0.002
45 OTH FAB MET	0	0	0	0	0.028	0	0	0.014
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.019	0.004	0	0.013	0.002	0	0.003	0.002
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0	0	0.009	0.117	0.016	0.002	0.047

58	OTH TRAN EQ	0	0	0	0	0	0	0.002	0
59	PROF, SC&CONT	0	0	0	0	0.016	0	0.009	0.002
60	OTH MFG	0.064	0.034	0.012	0.019	4.340	0.072	0.039	0.044
61	RAIL TRANS	0.196	0.089	0.023	0.099	0.158	0.129	0.120	0.225
62	INTERCITY TR	0	0	0	0	0	0	0.369	0
63	MOTOR TRANS	0.192	0.303	0.012	0.028	0.240	0.218	0.164	0.218
64	AIR TRANS	0.559	0.224	0.017	0.002	0.035	0.304	0.031	0.252
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0	0.113	0	0.183	0.009	0.022
68	TELEP&TELEG	2.904	12.260	0.816	1.681	1.075	2.182	0.853	1.697
69	TV, RAD, COMM	0	0	0	0	2.308	0	0.431	0.790
70	GAS SERVICE	0.984	5.885	0.007	0.983	2.575	0.084	0.319	0.395
71	ELEC SERV	1.563	19.088	0.021	5.033	3.985	0.723	2.733	0.729
72	WT&SAN SER	0.530	2.165	0.002	0.579	0.796	0.076	0.297	0.419
73	WHL AUTO PTS	0.121	0.093	0.005	0.022	0.034	0.015	0.012	0.026
74	WHL GRO	0	0	0	0.824	0	0	0.172	0.001
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.295	0.049	0.003	0.012	0.903	0.672	0.176	0.210
77	WHL PETROLEM	0.102	0.072	0.002	0.003	0.028	0.011	0.006	0.022
78	GEN WHL	6.611	2.512	0.156	3.644	0.273	1.495	0.875	0.546
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0.003	0	0	0	0	0
82	AUTO DL&REP	0.245	0.189	0.011	0.996	0.656	0.029	0.018	0.063
83	GAS SER STA	0.794	0.124	0.075	0.591	0.137	0.537	0.015	0.230
84	APP&ACCESS	0	0	0	0	0.014	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	5.157	0.303	0	0	0	0.447	0.085	0.188
87	OTH RETAIL	0.016	0.009	0.004	0.592	0.006	0.088	0.003	0.001
88	BK&CREDIT	0.213	74.744	0.003	0.716	0.068	0.053	0.083	0.122
89	INSURANCE	1.008	3.496	0.004	1.242	0.286	0.701	0.540	0.227
90	F. I. R. E	18.484	4.913	3.050	5.711	1.284	3.069	2.013	0.723
91	LEGAL SER	2.699	6.192	0	0.384	0.268	0.490	0.203	0.413
92	LODGE SER	5.595	0.571	0	0	0	0	0.105	0.476
93	PERSNL SER	0	0	0	0	3.171	0.057	0	0
94	ADV, DUP&AD	6.078	3.426	0.036	1.742	0.108	0.551	1.881	0.852
95	PHOTO&REC	0	0	0	0.055	0	1.967	1.594	0
96	OTH BUS SE	8.000	10.999	0.263	1.223	1.069	0.318	0.639	1.272
97	AUTO RENT, PK	0.328	0	0.021	0	0.557	0	0	0.035
98	REPAIR SER	0.109	0.072	0.003	4.229	0.082	0.019	0.013	0.021
99	PHYS&DEN	2.781	0	0	0	0	0	0.162	0
100	HOS&LAB SER	0.119	1.393	0.008	0.027	0.108	0.097	0.177	0.080
101	OTH MED SER	0	0.103	0	0	0	0	0	0
102	ELE&SECD SCH	1.103	12.961	0.077	0.255	1.013	0.903	1.011	0.743
103	COLL & UNIV	1.569	0.872	0.008	0.073	0.292	0.070	0.099	0.127
104	OTH ED SER	0.009	0.111	0.001	0.002	0.009	0.008	0.009	0.006
105	ENG & ARC	0	2.360	0	0	0	0	0	0
106	ACCT, ACD, & BK	2.657	4.022	0.510	1.227	0.465	0.715	0.296	0.328
107	OTH PROF SER	11.270	0	0	0	0	1.765	0	0
108	OTH SER	5.111	2.384	0.229	0.565	0.718	0.319	0.368	0.763
109	HOUSEHOLDS	204.412	93.580	60.076	35.790	99.700	46.015	54.963	53.685
110	GROSS SAVING	353.524	74.179	1.754	13.175	20.365	12.687	9.280	45.983
111	FED. GOVT.	21.731	14.573	2.426	2.066	11.097	4.786	6.583	15.200
112	STATE GOVT.	36.535	7.571	0.122	1.487	5.972	0.738	1.335	2.272
113	LOCAL GOVT.	1.093	12.846	0.077	0.254	0.999	0.895	0.995	0.736
114	IMPORTS	100.082	87.222	1.294	9.573	36.809	12.916	17.586	44.004
TOTAL INPUTS		820.375	496.570	71.213	102.774	205.951	101.525	110.004	180.393

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	97	98	99	100	101	102	103	104
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.005	0.517	0.217	0.160	0.241	1.834	0	0
17 MEAT PROD	0	0	0	0.257	0.383	5.086	0	0
18 DAIRY PROD	0	0	0	0.022	0.033	6.361	0.001	0
19 GRN MILLPRD	0	0	0	0.001	0	0	0.046	0
20 BAKERY PROD	0	0	0	0.039	0	3.118	0	0
21 OTHFOODPROD	0	0.001	0.009	0.102	0.029	5.611	0.025	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0.711	0	0	0.020	0
24 LUM&WOOD PR	0	0	0.002	0.003	0.001	0.038	0.045	0
25 FURN & FIX	0.001	0.001	0.010	0.004	0.001	0.022	1.965	0
26 PAPER EX BOX	0.001	0.002	0.027	0.103	0.002	0.686	0.409	0
27 BOXS&CONTAIN	0	0	0	0.009	0	0	0.002	0
28 NEWSPAPERS	0.089	0	0	0	0	0	0	0.006
29 PUB&PRINTING	0.103	0.823	0.252	0.190	0.088	0.233	0.238	0.001
30 DRUGS,SPS&CL	0	0	0.078	2.246	0.201	0.022	0.094	0
31 OTH CHEMICAL	0	0	0	0.139	0	0.047	0.160	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0	0.002	0.043	0.010	0	0.006	0
34 PLASTIC PROD	0	0	0	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0.027	0.042	0
37 PRIMARY MET	0	0	0	0	0	0	0.127	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0.181	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.001	0	0.019	0.006	0	0	0
46 FM,CN,ID MA	0	0	0	0	0	0	0.016	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0.047	0
49 IND PRO MACH	0	0	0	0	0	0	0.123	0
50 ENG&GEN MACH	0	0	0	0	0	0	0.036	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0.096	0
52 ELEC INS	0	0.001	0	0.005	0.001	0.002	0.146	0
53 ELEC COM	0	0	0	0	0	0	0.001	0.001
54 OTH ELEC APP	0	0	0	0.016	0	0	0.005	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	4.526	1.313	0	0.005	0.006	0	0.004	0

58	OTH TRAN EQ	0	0	0	0	0	0	0.012	0
59	PROF, SC&CONT	0	0	0.025	2.223	0.018	0	0.313	0
60	OTH MFG	0.029	0.023	0.022	0.002	0.003	0.001	0.029	0.008
61	RAIL TRANS	0.029	0.200	0.190	0.078	0.046	0.043	0.085	0.012
62	INTERCITY TR	0	0	0	0	0	0.028	0	0
63	MOTOR TRANS	0.025	0.736	0.091	0.361	0.054	0.031	0.027	0.029
64	AIR TRANS	0.006	0.007	0.008	0.013	0.001	0.108	0.257	0.013
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0	0	0.040	0.018	0	0
68	TELEP&TELEG	0.091	0.308	0.499	0.413	0.409	0.515	1.840	0.020
69	TV,RAD,COMM	0.149	0	0	0	0	0	0.213	0
70	GAS SERVICE	0.031	0.145	0.580	0.926	0.333	1.294	0.406	0.037
71	ELEC SERV	0.493	1.036	1.062	2.540	0.668	3.435	1.798	0.232
72	WT&SAN SER	0.028	0.120	0.260	0.511	0.249	0.455	0.594	0.014
73	WHL AUTO PTS	0.009	0.023	0.008	0.006	0.008	0.043	0.035	0.006
74	WHL GRO	0	0	0	1.241	0.364	2.354	0	0.013
75	WHL FM PROD	0	0	0	0.001	0	0	0	0
76	WHL MACH&EQP	0.005	0.777	1.476	3.075	0.575	2.254	0.340	0.009
77	WHL PETROLEM	0.097	0.096	0.013	0.011	0.008	0.080	0.050	0.013
78	GEN WHL	0.082	0.096	1.743	0.606	0.158	3.981	2.326	0.017
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0.002	0	0	0	0	0	0
82	AUTO DL&REP	1.679	1.743	0.023	0.007	0.008	0.015	0.012	0.002
83	GAS SER STA	0	0.015	0.035	0	0.021	0.041	0.039	0.006
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.003	0.004	0	0	0
87	OTH RETAIL	0	0.003	0.005	0	0.002	0.072	0.017	0.003
88	BK&CREDIT	0.017	0.453	1.084	2.078	0.096	0.065	0.081	0.019
89	INSURANCE	0.868	0.290	1.346	0.405	0.390	1.085	0.311	0.030
90	F.I.R.E	3.734	2.052	1.338	0	1.144	0.049	6.508	0.038
91	LEGAL SER	0.064	0.080	0.629	0.166	0.096	0.007	0.300	0.025
92	LODGE SER	0	0	0	0.002	0.008	0	0	0
93	PSRNL SER	0	0	0	0.034	0.289	0.088	0.101	0
94	ADV,DUPE&AD	0.089	0.195	0.012	0.041	0.017	0	0.471	0.005
95	PHOTO&REC	0	0	0	0	0	0	0.126	0.001
96	OTH BUS SE	0.022	0.085	1.040	0.828	0.175	0.163	1.395	0.032
97	AUTO RENT,PK	0	0	0	0	0.169	0	0.462	0
98	REPAIR SER	0.011	0.036	0.017	0.031	0.096	0.031	0.042	0.006
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.028	0.019	2.280	0.268	0.007	0	0.004	0.013
101	OTH MED SER	0	0	6.252	0	0	0	0	0
102	ELE&SECD SCH	0.263	0.176	1.052	0.032	0.063	0.041	0.037	0.122
103	COLL & UNIV	0.094	0.017	0.243	0.004	0.037	0	0.002	0.031
104	OTH ED SER	0.002	0.002	0.009	0	0.001	0	0	0.001
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT,ACD,&BK	0.143	0.299	0.369	0.051	0.738	0.126	0	0.013
107	OTH PROF SER	0	0	0	0	0	0	0.194	0
108	OTH SER	0.063	0.228	2.575	0.089	0.321	0	0.118	0
109	HOUSEHOLDS	15.338	37.068	98.422	95.865	49.850	245.415	63.910	31.955
110	GROSS SAVING	14.112	2.729	23.639	10.381	3.628	23.990	2.781	0.341
111	FED. GOVT.	0.932	1.347	8.860	2.317	2.747	0.779	0.904	0.787
112	STATE GOVT.	2.001	0.226	4.757	0.065	0.823	0	0	0.636
113	LOCAL GOVT.	0.261	0.174	1.044	0.032	0.061	0	0.036	0.121
114	IMPORTS	15.703	23.142	18.998	17.320	8.613	4.282	1.184	9.559
TOTAL INPUTS		61.223	76.607	180.603	146.100	73.340	313.976	91.195	44.177

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	105	106	107	108
1 COTTON	0	0	0	0
2 CASH GRAINS	0	0	0	0
3 OTHER GRAINS	0	0	0	0
4 RANGE LVSTK.	0	0	0	0
5 FEED LVSTK.	0	0	0	0
6 DAIRY	0	0	0	0
7 POULTRY&EGGS	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0
9 AG SERVICES	0	0	0	0
10 PET&NAT GAS	0	0	0	0
11 OILFIELD SER	0	0	0	0
12 RES CONS	0	0	0	0
13 COMM&ED CONS	0	0	0	0
14 IND CONS	0	0	0	0
15 FAC CONS	0	0	0	0
16 MAINT&REPAIR	0.146	0	0.056	1.988
17 MEAT PROD	0	0	0	0.004
18 DAIRY PROD	0	0	0	0
19 GRN MILLPRD	0	0	0	0
20 BAKERY PROD	0	0	0	0
21 OTHFOODPROD	0	0	0.001	0.008
22 TEXTILE MILL	0	0	0	0
23 FAB TEX MILL	0	0	0	0
24 LUM&WOOD PR	0	0	0	0
25 FURN & FIX	0	0	0	0.002
26 PAPER EX BOX	0	0.014	0.002	0.067
27 BOXS&CONTAIN	0	0	0	0
28 NEWSPAPERS	0	0.033	0	0
29 PUB&PRINTING	0.051	0.236	0.873	3.674
30 DRUGS,SPS&CL	0	0	0	0.007
31 OTH CHEMICAL	0	0	0	0.030
32 PET REF	0	0	0	0
33 RUBBER PROD	0	0	0	0
34 PLASTIC PROD	0	0	0	0
35 LEATHER PROD	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0.002
37 PRIMARY MET	0	0	0	0
38 FAB STEEL	0	0	0	0
39 PLATE WORK	0	0	0	0
40 SH METAL&ARC	0	0	0	0
41 METAL DOORS	0	0	0	0
42 FAB MET PROD	0	0	0	0
43 PLU,HEAT&REF	0.073	0	0	0
44 ELECTROPLAT	0	0	0	0
45 OTH FAB MET	0.021	0	0	0
46 FM,CN,ID MA	0	0	0	0
47 MIN MACH	0	0	0	0
48 MET WK MACH	0	0	0	0
49 IND PRO MACH	0	0	0	0
50 ENG&GEN MACH	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0
52 ELEC INS	2.047	0	0	0
53 ELEC COM	0	0	0	0
54 OTH ELEC APP	0	0	0	0.005
55 AIRCRAFT&ORD	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0
57 MOTOR VECH	0	0	0.009	0

58 OTH TRAN EQ	0	0	0	0
59 PROF, SC&CONT	0.026	0	0	0.017
60 OTH MFG	0.003	0.025	0.048	0.073
61 RAIL TRANS	0.016	0.018	0.013	0.106
62 INTERCITY TR	0	0	0	0
63 MOTOR TRANS	0.012	0.019	0.017	0.055
64 AIR TRANS	0.027	0.244	0.016	0.052
65 PIPE TRANS	0	0	0	0
66 LOCAL TRANS	0	0	0	0
67 WARE&OTH TR	0	0	0.114	0
68 TELEP&TELEG	0.663	1.024	0.591	1.958
69 TV, RAD, COMM	0.006	0	0	0
70 GAS SERVICE	0.035	0.008	0.052	0.675
71 ELEC SERV	0.190	0.024	0.088	4.219
72 WT&SAN SER	0.041	0.006	0.119	0.424
73 WHL AUTO PTS	0.012	0.003	0.005	0.003
74 WHL GRO	0	0	0	0
75 WHL FM PROD	0	0	0	0
76 WHL MACH&EQP	0.011	0.395	0.008	0.007
77 WHL PETROLEM	0.022	0.014	0.008	0.005
78 GEN WHL	0.131	0.923	0.133	1.388
79 BLD MAT	0	0	0	0
80 RTL TRD-GEN	0	0	0	0
81 FOOD STORES	0	0	0	0
82 AUTO DL&REP	0.016	0.003	0.012	0.540
83 GAS SER STA	0.021	0.005	0.019	1.103
84 APP&ACCESS	0	0	0	0
85 FURNITURE	0	0	0	0.050
86 EAT&DRINK	0	0	0	0.165
87 OTH RETAIL	0.004	0.007	0.001	0.042
88 BK&CREDIT	0.503	0.565	0.114	0.121
89 INSURANCE	0.165	0.446	0.063	0.739
90 F.I.R.E	0.579	4.055	0.755	0.837
91 LEGAL SER	0.018	0.112	0.047	0.242
92 LODGE SER	0	0	0	0
93 PERSNL SER	0	0	0	0
94 ADV, DUP&AD	4.995	0.025	0.086	0.443
95 PHOTO&REC	0	0	0.105	0.462
96 OTH BUS SE	0.262	0.076	0.388	0.932
97 AUTO RENT, PK	0	0.326	0	0
98 REPAIR SER	0.011	0.048	0.017	0.020
99 PHYS&DEN	0	0	0.022	0
100 HOS&LAB SER	0.009	0.085	0.017	0.093
101 OTH MED SER	0	0	0	0
102 ELE&SECD SCH	0.088	0.788	0.160	0.507
103 COLL & UNIV	0.011	0.062	0.021	0.169
104 OTH ED SER	0.001	0.007	0.001	0.004
105 ENG & ARC	2.658	0	0	0
106 ACCT, ACD, &BK	0.022	4.829	0.327	1.475
107 OTH PROF SER	0	0	0	0
108 OTH SER	0.073	0.265	0.039	4.132
109 HOUSEHOLDS	59.141	93.309	24.286	108.304
110 GROSS SAVING	1.919	26.693	0.962	3.948
111 FED. GOV'T.	2.834	3.073	1.138	2.280
112 STATE GOV'T.	0.168	0.674	0.330	0.886
113 LOCAL GOV'T.	0.087	0.780	0.159	0.503
114 IMPORTS	1.536	18.515	0.495	48.983

TOTAL INPUTS	78.654	157.734	31.717	191.749

TRANSACTIONS TABLE : NORTH CENTRAL ,TEXAS, 1967 (MILLION DOLLARS)

	HOUSEHOLDS	CAPITAL FORMATION	NET INV CHANGE	FED GOV DEF	FED GOV NON-DEF	STATE GOV
1 COTTON	0	0	-20.650	0	26.400	0
2 CASH GRAINS	0	0	-0.200	0	6.860	0
3 OTHER GRAINS	5.345	0	0.070	0	8.450	0
4 RANGE LVSTK.	1.600	0	4.400	0	2.200	0
5 FEED LVSTK.	1.500	0	1.600	0	0.100	0
6 DAIRY	0.070	0	-1.300	0	0	0
7 POULTRY&EGGS	11.026	0	-1.100	1.000	0	0.010
8 AGSUP EXFAMA	3.000	0	0	0	0	0
9 AG SERVICES	7.977	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0
12 RES CONS	0	454.892	0	0	0	0
13 COMM&ED CONS	0	491.310	0	0	5.500	0
14 IND CONS	0	189.142	0	0	0	0
15 FAC CONS	0	512.538	0	2.023	5.360	78.984
16 MAINT&REPAIR	100.617	0	0	1.825	0.140	0.310
17 MEAT PROD	87.546	0	0	5.034	0.784	0
18 DAIRY PROD	90.591	0	0	10.421	0.521	0.259
19 GRN MILLPRD	12.003	0	0	4.500	8.033	0.023
20 BAKERY PROD	85.137	0	0.068	2.790	0	0.108
21 OTHFOODPROD	200.117	0	-2.191	0	0.771	0.868
22 TEXTILE MILL	0.088	0	0.458	0	0	0.143
23 FAB TEX MILL	61.017	0	7.879	0	0	0.067
24 LUM&WOOD PR	5.751	0	2.229	1.303	2.568	0.154
25 FURN & FIX	5.021	2.413	1.762	2.810	0.727	0.516
26 PAPER EX BOX	2.185	0	1.661	0.211	0.771	0.249
27 BOXS&CONTAIN	0	0	2.871	0	1.971	0.017
28 NEWSPAPERS	20.462	0	0.275	0	0	0
29 PUB&PRINTING	0.924	0	1.493	0	0.277	0.303
30 DRUGS,SPS&CL	20.694	0	2.873	0.071	0.059	0.094
31 OTH CHEMICAL	1.866	0	0.796	2.847	0.119	0.102
32 PET REF	6.733	0	2.059	7.286	0.036	1.413
33 RUBBER PROD	4.413	0	0.111	2.704	0	0.128
34 PLASTIC PROD	6.875	0	4.762	2.584	1.062	0.093
35 LEATHER PROD	2.684	0	0.619	0	0	0
36 GLS,ST,CL&CN	3.112	0	-1.220	0.989	1.900	1.513
37 PRIMARY MET	0	0	-0.216	0.317	0.207	0.026
38 FAB STEEL	0	5.650	-0.677	1.015	0	0.059
39 PLATE WORK	0	1.004	-0.016	0	0	0.006
40 SH METAL&ARC	0	0.914	2.008	0	0	0.010
41 METAL DOORS	0	0	-0.574	0	0	0
42 FAB MET PROD	0	0	0.773	0	0	0.085
43 PLU,HEAT&REF	4.440	8.873	7.369	0.067	0.022	0.037
44 ELECTROPLAT	0	0	0.076	0	0	0
45 OTH FAB MET	0	0.512	2.124	2.863	1.096	0.036
46 FM,CN,ID MA	0	5.646	-0.058	0	0	0.232
47 MIN MACH	0	11.728	3.075	0	0	0
48 MET WK MACH	0	14.480	-0.084	0.062	0	0.020
49 IND PRO MACH	0	2.107	-0.273	0	0.079	0.045
50 ENG&GEN MACH	0	2.136	1.859	0.051	0.017	0.013
51 OTH MAC&EQUP	0	5.073	-1.075	0.625	0.479	0.109
52 ELEC INS	0.726	1.880	1.368	2.110	0.027	0.041
53 ELEC COM	0	0	20.925	122.022	6.672	0.480
54 OTH ELEC APP	2.467	0	0.108	0.021	0.002	0.003
55 AIRCRAFT&ORD	0.135	0	2.860	2335.328	55.126	0
56 AIRCRAFT PAR	0.106	0	0	21.808	0	0.008
57 MOTOR VECH	53.007	20.617	0.677	0.853	0	0.003

58 OTH TRAN EQ	20.209	27.654	0.420	0	0	0
59 PROF, SC&CONT	6.451	0.523	0.918	3.774	1.081	0.064
60 OTH MFG	6.800	6.187	0.135	0.246	0.173	0.041
61 RAIL TRANS	13.616	2.912	0.888	3.565	0.421	0.052
62 INTERCITY TR	9.929	0	0	0.340	0.049	0
63 MOTOR TRANS	43.094	8.959	0	12.059	0.839	0.034
64 AIR TRANS	9.808	0.568	0	5.113	0.920	0.006
65 PIPE TRANS	0	0	0	0	0	0
66 LOCAL TRANS	18.106	0	0	0	0	0
67 WARE&OTH TR	4.230	0	0	0	0	0.070
68 TELEP&TELEG	96.444	0	0	4.119	2.653	1.688
69 TV,RAD,COMM	0	0	0	0	0	0
70 GAS SERVICE	58.748	0	0	1.219	0.321	0.089
71 ELEC SERV	116.838	0	0	1.960	1.262	0.437
72 WT&SAN SER	34.332	0	0	3.186	0.206	0.131
73 WHL AUTO PTS	19.061	8.869	0	0	0	0
74 WHL GRO	67.952	0	0	0	0	0
75 WHL FM PROD	0.648	0	0	0	2.000	0
76 WHL MACH&EQP	1.800	49.460	0	0	0	0.192
77 WHL PETROLEM	22.099	0	0	1.664	0.108	0.096
78 GEN WHL	55.455	8.323	0	0.872	0.562	0.469
79 BLD MAT	33.030	0	0	0	0	0
80 RTL TRD-GEN	303.526	0	0	0	0	0
81 FOOD STORES	203.348	0	0	0	0	0
82 AUTO DL&REP	108.784	21.905	0	0	0	0
83 GAS SER STA	48.719	0	0	0	0.013	0.017
84 APPE&ACCESS	72.496	0	0	0	0	0
85 FURNITURE	59.362	0	0	0	0	0
86 EAT&DRINK	235.765	0	0	0	0	0
87 OTH RETAIL	179.306	0	0	0	0	0.009
88 BK&CREDIT	69.596	0	0	0	0	0
89 INSURANCE	236.083	0	0	0.563	0.036	0.027
90 F.I.R.E	253.409	0	0	0	0	1.091
91 LEGAL SER	10.673	0	0	2.096	0.181	0.141
92 LODGE SER	2.561	0	0.450	0	0	0
93 PERSNL SER	192.470	0	-0.657	0.251	0.162	0
94 ADV,DUPE&AD	0.019	0	0	0.069	0.017	0.013
95 PHOTO&REC	68.381	0	0	0.004	0.003	0.002
96 OTH BUS SE	45.166	0	0	1.562	1.007	1.166
97 AUTO RENT,PK	21.295	0	0	0.004	0.003	0.001
98 REPAIR SER	43.314	0	0	0.229	0.149	0.116
99 PHYS&DEN	146.938	0	0	0	0	0
100 HOS&LAB SER	112.907	0	0	0.089	0.058	0.045
101 OTH MED SER	61.881	0	0	0	0	0
102 ELE&SECD SCH	199.619	0	0	0	26.240	0
103 COLL & UNIV	72.210	0	0	0	8.129	0
104 OTH ED SER	43.305	0	0	0	0	0
105 ENG & ARC	0.500	0	0	0.010	0.008	0.006
106 ACCT,ACD,&BK	7.807	0	0	0	0	0.040
107 OTH PROF SER	0.050	0	0	0.085	0.055	0.003
108 OTH SER	150.440	0	0	0	0	0
109 HOUSEHOLDS	24.205	0	0	372.564	832.146	140.671
110 GROSS SAVING	449.847	0	-51.728	-1730.059	-618.331	0
111 FED. GOVLT.	1071.153	0	0	0	0	0.575
112 STATE GOVLT.	96.203	0	0	0	89.073	0
113 LOCAL GOVLT.	61.727	0	0	0	11.242	73.515
114 IMPORTS	3062.159	413.304	0	288.338	40.381	29.055
TOTAL INPUTS	9163.109	2279.579	-0.000	1509.462	539,503	336.429

TRANSACTIONS TABLE : NORTH CENTRAL , TEXAS, 1967 (MILLION DOLLARS)

	LOCAL GOV	EXPORT	TOTAL FINAL DEMAND	TOTAL OUTPUTS
1 COTTON	0	38.545	44.295	51.700
2 CASH GRAINS	0	3.793	10.453	57.000
3 OTHER GRAINS	0	7.218	21.083	41.400
4 RANGE LVSTK.	0	92.044	100.244	124.300
5 FEED LVSTK.	0	2.861	6.061	22.400
6 DAIRY	0	7.600	6.370	61.600
7 POULTRY&EGGS	0	5.481	16.417	43.581
8 AGSUP EXFAMA	0	0	3.000	17.567
9 AG SERVICES	0	0.005	7.982	19.384
10 PET&NAT GAS	0	83.744	83.744	115.073
11 OILFIELD SER	0	11.538	11.538	18.400
12 RES CONS	0	0	454.892	454.892
13 COMM&ED CONS	23.519	0	520.329	523.374
14 IND CONS	0	0	189.142	189.142
15 FAC CONS	3.700	0	602.605	607.367
16 MAINT&REPAIR	0.254	0.600	103.746	193.969
17 MEAT PROD	0	234.697	328.061	393.089
18 DAIRY PROD	0	5.000	106.792	138.687
19 GRN MILLPRD	0	81.247	105.806	184.845
20 BAKERY PROD	0	1.999	90.102	95.968
21 OTHFOODPROD	0	269.457	469.022	507.589
22 TEXTILE MILL	0	18.823	19.512	43.256
23 FAB TEX MILL	0.061	279.531	348.555	351.872
24 LUM&WOOD PR	0	17.709	29.714	73.731
25 FURN & FIX	1.026	92.245	106.520	114.852
26 PAPER EX BOX	0	88.734	93.811	116.252
27 BOXS&CONTAIN	0	19.409	24.268	99.851
28 NEWSPAPERS	0	5.049	25.786	76.135
29 PUB&PRINTING	0.139	98.987	102.123	194.323
30 DRUGS,SPS&CL	0.005	103.038	126.834	132.743
31 OTH CHEMICAL	0.225	106.222	112.177	189.525
32 PET REF	0	20.191	37.718	52.100
33 RUBBER PROD	0	45.289	52.645	67.484
34 PLASTIC PROD	0	60.986	76.362	92.422
35 LEATHER PROD	0	11.159	14.462	14.539
36 GLS,ST,CL&CN	1.849	68.000	76.143	219.993
37 PRIMARY MET	0.009	158.861	159.204	219.984
38 FAB STEEL	0.004	47.484	53.535	69.053
39 PLATE WORK	0	18.403	19.397	35.584
40 SH METAL&ARC	0	19.262	22.194	48.956
41 METAL DOORS	0	17.406	16.832	23.686
42 FAB MET PROD	0	47.607	48.465	67.774
43 PLU,HEAT&REF	0	121.758	142.566	181.479
44 ELECTROPLAT	0	7.638	7.714	14.876
45 OTH FAB MET	0	31.907	38.538	62.484
46 FM,CN,ID MA	0	40.652	46.472	48.092
47 MIN MACH	0	118.501	133.304	133.315
48 MET WK MACH	0	6.662	21.140	25.606
49 IND PRO MACH	0	47.436	49.394	51.527
50 ENG&GEN MACH	0	32.114	36.190	47.469
51 OTH MAC&EQUP	0.327	52.064	57.602	63.745
52 ELEC INS	0	11.935	18.087	37.918
53 ELEC COM	0.108	425.293	575.500	623.415
54 OTH ELEC APP	0	30.558	33.159	34.668
55 AIRCRAFT&ORD	0	0.036	2393.485	2394.446
56 AIRCRAFT PAR	0	6.663	28.585	132.000
57 MOTOR VECH	0.268	563.793	639.218	653.767

58	OTH TRAN EQ	0	29.788	78.071	78.190
59	PROF, SC&CONT	0	81.807	94.618	104.568
60	OTH MFG	0.137	28.881	42.600	50.625
61	RAIL TRANS	0.302	92.016	113.772	156.580
62	INTERCITY TR	0	18.123	28.441	29.388
63	MOTOR TRANS	0	232.215	297.200	381.498
64	AIR TRANS	0.005	124.122	140.542	151.219
65	PIPE TRANS	0	7.119	7.119	8.004
66	LOCAL TRANS	0	1.572	19.678	19.678
67	WARE&OTH TR	0	6.914	11.214	18.540
68	TELEP&TELEG	0.179	15.756	120.839	224.877
69	TV, RAD, COMM	0	28.200	28.200	47.706
70	GAS SERVICE	0.141	20.978	81.496	169.347
71	ELEC SERV	2.700	0	123.197	268.137
72	WT&SAN SER	0.020	0	37.875	63.683
73	WHL AUTO PTS	0	90.106	118.036	130.305
74	WHL GRO	0	49.475	117.427	127.864
75	WHL FM PROD	0	27.460	30.108	34.544
76	WHL MACH&EQP	0	293.742	345.194	383.355
77	WHL PETROLEM	2.083	30.405	56.455	78.751
78	GEN WHL	2.500	434.872	503.053	623.938
79	BLD MAT	0	6.010	39.040	57.502
80	RTL TRD-GEN	0	15.977	319.503	319.519
81	FOOD STORES	0	20.227	223.575	223.647
82	AUTO DL&REP	0.311	84.750	215.750	247.610
83	GAS SER STA	0.022	4.713	53.484	69.207
84	APP&ACCESS	0	2.741	75.237	75.259
85	FURNITURE	0	4.510	63.872	63.955
86	EAT&DRINK	0.005	66.081	301.851	309.476
87	OTH RETAIL	0	28.556	207.871	211.039
88	BK&CREDIT	3.248	322.942	395.786	592.668
89	INSURANCE	3.265	465.618	705.592	820.375
90	F. I. R. E	0.523	65.800	320.823	496.570
91	LEGAL SER	0.020	19.519	32.630	71.213
92	LODGE SER	0.005	91.185	94.201	102.774
93	PERSNL SER	0	3.007	195.233	205.951
94	ADV, DUP&AD	0.180	21.128	21.426	101.525
95	PHOTO&REC	0	34.534	102.924	110.004
96	OTH BUS SE	3.638	25.977	78.516	180.393
97	AUTO RENT, PK	0.005	25.543	46.851	61.223
98	REPAIR SER	0	5.322	49.130	76.607
99	PHYS&DEN	0	30.487	177.425	180.603
100	HOS&LAB SER	0	20.546	133.645	146.100
101	OTH MED SER	0	5.104	66.985	73.340
102	ELE&SECD SCH	0	0	225.859	313.976
103	COLL & UNIV	0	0	80.339	91.195
104	OTH ED SER	0	0.020	43.325	44.177
105	ENG & ARC	0.600	67.742	68.866	78.654
106	ACCT, ACD, &BK	0.090	100.151	108.088	157.734
107	OTH PROF SER	0.693	11.159	12.045	31.717
108	OTH SER	0	10.146	160.586	191.749
109	HOUSEHOLDS	138.154	1311.970	2819.710	9163.109
110	GROSS SAVING	-9.850	1985.762	25.641	2279.579
111	FED. GOVT.	0.023	0	1071.751	2048.965
112	STATE GOVT.	0	0	185.276	336.429
113	LOCAL GOVT.	0	0	146.484	233.973
114	IMPORTS	53.480	0	3886.717	10158.012
TOTAL INPUTS		233.973	10158.012	24220.067	43746.875

inputs. There would be entries in the processing sectors of the input-output table of inputs of \$1 from motor freight transportation sector, \$22 the retail sector and \$1 from the local delivery service sector representing the connections of producers and users within the region.

By reading down a column of the transactions table, the dollar value of inputs that a given sector purchased from all the sectors identified on the left side of the table can be determined. For example, the Range Livestock Production sector (column 4) purchases \$2.993 million from the Grain Mill Products sector (row 19). Intraindustry transactions, which result from firms purchasing from other firms in the same industry, can occur. For example, the Bakery Products sector (column 20) purchases \$480,000 from the Bakery Products sector (row 20).

Continuing down a given column the purchase of productive inputs, mostly labor, from the Household row (row 110) can be determined. Entries of processing sectors in the Gross Savings row measure depreciation plus the profits of corporations. Depreciation is an estimate of the cost of the plant and equipment used up in the production of goods during 1967 and profits are the residual left after all other sectors have been paid. The role of this sector in balancing the transactions table will be discussed below. However, a warning must be made in interpreting the Gross Savings row as the "profitability" of an industry where "profitability" is measured as return on investment. For example, a large Gross Savings for a utility sector relative to a manufacturing sector may be because of the greater capital intensity of the utility. Utilities have much more capital investment per dollar of output than do manufacturing firms. Thus, a utility will have a larger amount of capital used up and need a larger amount of profit per dollar of output to have a percentage return on investment equal to that of a manufacturer. Thus, even though a utility might show a greater percent of total outlay going to Gross Savings than a manufacturer, the utility may in fact have a lower "rate of return" on investment than the manufacturer. The same warning applies to attempts to compare profitability among other sectors as the sectors may have different capital intensities.

Payments to the three levels of government are accounted for by the Federal Government, State Government, and Local Government rows. These payments to government are a cost of doing business. They represent, although not on a strict quid pro quo basis the price that must be paid for government services. The payments are primarily taxes but also include fees, payments in lieu of taxes, and other remunerations to government units. Estimates of payments of Federal Corporate Income Taxes are probably low because of company headquarters outside the region. This would tend to overstate corporate profits in the region.

The North Central Texas economy is an "open economy", meaning that a large proportion of the regional transactions is

made with parties located outside of the region. Firms within a given sector generally import certain inputs for their production processes. The imports for a given column are represented by the dollar value stated in the intersection of the column with the Imports row.

An examination of the sales distribution of a given processing sector involves a movement across that industry's row in the transactions table. It has been noted that the Range Livestock Production sector (column 4) purchases \$2.993 million from the Grain Mill Products sector (row 19). This is the same as reading across row 19 and finding that the Grain Mill Products sector sells \$2.993 million to the Range Livestock Production sector. For a given cell in the transactions table, a purchase from and a sales to are different sides of the same coin.

Some sectors produce capital goods. Buyers purchase such goods to replace or add to plant and equipment. Transactions in the processing portion of the table, however, are on current account. Thus, if the buyers were located within the region, sales of capital goods by a given sector were lumped together and entered in the Capital Formation column (column 110) regardless of which sectors purchased the capital goods. When buyers are located outside the region, the sale is entered in the Exports column. The values in this column represent only private capital formation, since the purchases of the government sectors include both current and capital expenditures. Most of the output of the construction sectors, except for Maintenance and Repair, goes to Gross Private Capital Formation.

Another entry in the selling sector's row is Net Inventory Change (column 111). At any given time, producers will usually have an unsold stock of goods because some of the goods produced are not sold during the given time period. A positive entry in the Net Inventory Change column for a selling sector means that firms in the sector had more inventory on hand at the end of their 1967 fiscal year than at the beginning of that time period. A negative entry indicates the reverse. In the case of negative inventory changes, part of the current sales of the sector was produced in a previous time period. Border totals (gross outputs) were reduced or increased by the amount of net inventory change. By this adjustment, gross output is made consistent with gross outlay for an industry in the study year.

Sectors listed on the left hand side of the table can sell to four possible government sectors: Federal Government Defense, Federal Government Non-Defense, State Government, and Local Government. As indicated above, the purchases of these sectors include capital as well as current expenditures. It should be noted that sales of the various sectors to the State and Local Government sectors do not include sales to elementary and secondary schools, colleges and universities, and hospitals since these activities are included in the processing portion of the model -- sectors 100, 102, 103, and 104. Payments to government

by sectors were adjusted to reflect these activities being included as processing sectors.

All sales by regional industry to the rest of the world are included in the Exports column (112) of the table with the exception of sales to the Federal and State Government as noted in Appendix A. It should be noted that the large sale (\$2,355 billion) by the Aircraft, Aircraft Engines, and Ordnance sector (55) to the Federal Government Defense sector could have been classified as an export for that sector. Consequently, exports are reduced substantially by classifying this transaction in the Federal Government Defense sector.

Special attention must be given to Quadrant IV of the model where final demand columns intersect final payments row. The purchase of goods and services by households from other households is reflected at the intersection of the Household Column and the Household row. The entry in the cell where the Household column and Gross Savings row intersect reflects the gross savings of North Central Texas households. The payment of taxes by households is reflected in the three government rows. As in the case of interindustry sectors, that part of the taxes going to sectors 100 (Hospital and Laboratory Services), 102 (Elementary and Secondary Education), 103 (Colleges and Universities), and 104 (Other Educational Services) has been moved to these rows indicating a purchase by the Household column from these sectors. Households located within the region purchase commodities that were produced outside of the region through the distributive sectors in producer's prices.

Of the estimated \$2.280 billion of Gross Private Capital Formation that occurred in the region in 1967, capital goods with an estimated value of \$413.304 million were imported. All four government sectors in the final demand section of the model purchased labor inputs from the Household sector. The employer's contribution for state and local government employees to social security is reflected in the cells where the State and Local Government columns intersect the Federal Government row. Federal Government Non-Defense transfers to State and Local Government sectors and State Government transfers to the Local Government sector are indicated in the cells where these sectors intersect. The government sectors also import goods and services.

The entry at the intersection of the Households row and the Exports column shows \$1.312 billion being exported. This balancing entry is the rental income, dividends, and interest earned by households in North Central Texas whether such incomes were earned within the region or from investments outside of the region. The portion of these earnings earned outside of the region cannot be determined from available data, but it is the considered judgment of the authors that it would be a large portion of this value.

The last five entries in the Gross Savings row remain to

be discussed for this section of the model. The Gross Savings row is an accounting device which permits each final demand column to balance with its corresponding final payments row.¹¹ Thus, in the North Central Texas table all columns and rows balance, including those for the final demand and final payments sectors. Gross savings in the regional economy are equated arbitrarily to gross private capital formation. Negative entries in the Gross Savings row indicate net inflows to the region. The large negative entry at the intersection of the Gross Savings row with the Federal Government Defense column indicates that Federal Government Defense expenditures in the region exceeded the amount the region paid out as taxes to the Federal Government Defense sector. This is to be expected with the large purchases of the Federal Government Defense sector from the Aircraft, Aircraft Engines, and Ordnance sector. The same interpretation should be given to the negative entry in the Federal Government Non-Defense column. It should be noted that the sum of the border totals for the two federal government final demand sectors is equal to the border total for the Federal Government final payments sector. The negative entry in the intersection of the State Government column and Gross Savings row indicates that state agencies purchased more from the regional economy than the regional economy paid in taxes to the state government.

Comparison of the entries in the Net Inventory Change column reveal that the sum of the positive values exceeds the sum of the negative values by \$51.728 million. This represents a positive rate of net saving in the regional economy. This value, however, is not included in the border total of the Capital Formation column. Therefore, in balancing the transactions table, this amount must be subtracted from Gross Savings in order to balance the Gross Savings row with the Capital Formation column. The Net Inventory Change column then adds to zero.

The \$1.986 billion entry at the intersection of the Gross Savings row and the Export column indicates the amount of Gross savings flowing out of the region.

The reader is warned once again that the four negative entries in the Gross Savings row are accounting entries which balance the entire input-output table. However, no information for the four final demand sectors involved is lost by this process. By disregarding the four negative entries in the Gross Savings row it is possible to determine: the sum of net inventory change for all regional industrial sectors, the sum of purchases by the Federal Government Defense sector, the sum of purchases by the Federal Government Non-Defense sector, and the sum of purchases by the State Government sector.

¹¹Miernyk, W. H. and Shellhammer, K. L., Simulating Regional Economic Development With An Input-Output Model, Regional Research Institute, West Virginia University, July, 1968, p. 5.

D. THE TRANSACTIONS TABLE: A PROFILE
OF THE NORTH CENTRAL TEXAS ECONOMY

Introduction

In this subsection, the structure of the North Central Texas economy is analyzed through the use of the transactions table, Table 2, which shows the characteristics of the North Central Texas economy in 1967. The underlying structure of the economy is vividly portrayed in the flows of trade which link the many economic units in North Central Texas with one another and with the outside world.

Due to the large amount of detailed information in the transactions table, there has been further aggregation in this subsection. In several cases, the analysis uses an aggregation of the 108 sectors into 10 major industrial groups. These ten industrial groups and the sectors which have been combined to form them are: agriculture (Sectors 1-9), mining (Sectors 10-11), construction (Sectors 12-16), manufacturing (Sectors 17-60), transportation (Sectors 61-67), utilities and communications (Sectors 68-72), wholesale trade (Sectors 73-78), retail trade (Sectors 79-87), finance, insurance, and real estate (Sectors 88-90), and services (Sectors 91-108). In other cases the full detail of the 108 sectors is utilized and Appendix D gives detail by 108 sectors where detail beyond the 10 major industrial groups is desired by the reader.

After the following through this analysis, the lay economist should be qualified to use the transactions table to trace through the chains of relationships in which he is interested. Analysis by the reader is highly recommended as the best method for developing an intuitive insight into the central concepts of input-output analysis and the structure of a regional economy.

Gross Output

A comparison of the gross output values, in producer's prices, for the processing sectors of the regional transactions table indicates the relative importance of sectors in terms of dollar volume of activity. It should be noted that the outputs of the trades sectors are the mark-ups or gross margins; that is, the trade sectors outputs are defined as the residual when materials purchased for resale are subtracted from gross sales. These output totals range in value from \$18.4 million for the Oil and Gas Field Services sector to \$2.39 billion for the Aircraft, Aircraft Engines, and Ordnance sector. The latter sector is the largest in the region. It accounts for over 12 percent of the total output of all processing sectors and is nearly 29 percent of manufacturing output. The second, third, fourth, and fifth largest sectors were Insurance Carriers, Motor Vehicles and Parts, General Wholesale, and Electronic Communication Equipment respectively. The manufacturing sector produces the largest value of output for the region. It accounts for 43 percent

of the output of all processing sectors combined (Table 3). Services rank second with an output of \$2.219 billion. Mining ranks last of the ten groups with \$133.473 million of output. Although mining, especially petroleum, is very important for the state, it plays a relatively small role in the North Central Texas economy. For the 108 processing sectors, gross output values can be read from the Gross Output column in the transactions table.

Table 3. Gross output for ten major industrial categories, ranked, thousands of dollars -- North Central Region; Texas 1967.

Industrial category	Gross output (thousands of dollars)
Manufacturing	\$8,362,483
Services	2,218,935
Construction	1,968,744
Finance, insurance, real estate	1,909,613
Retail trade	1,577,214
Wholesale trade	1,378,757
Utilities and communication	773,750
Transportation	764,907
Agriculture	438,932
Mining	133,473

Structural Interdependence

As stated, the major purpose of this study was to determine the structural interrelationships of the North Central Texas economy for 1967. The degree of interdependence among processing sectors is measured by the relative magnitude of transactions in the processing quadrant (Quadrant I) of the transactions table. The following analysis identifies the sectors that are heavily dependent on other sectors in the region as suppliers of their inputs and purchases of their output.

The percent of total gross output that is sold to regional processing sectors and the percent of total gross outlay that is purchased from regional processing sectors is shown in Figure 7 for the 10 major industrial categories. Two industrial categories have a degree of interdependence on their output side that amounts to about 50 percent of their total output; these are agriculture, slightly over 50 percent, and utilities and communications, slightly under 50 percent. The agricultural group also shows the largest degree of interdependence on the input side, purchasing about 47

percent of its inputs from regional processing sectors. Analysis of the agricultural sectors in the transactions table, Table 2, shows that much of the interdependence of the agricultural group comes about through agricultural sectors buying and selling among themselves and, on the output side, selling to food processing sectors in the region (Manufacturing sectors 17-21). Only five of the ten groups had more than twenty percent of their sales to regional processing sectors: agriculture; mining; utilities and communication; finance, insurance and real estate; and services. There were also five industrial groups which relied on regional processing sectors for more than twenty percent of their inputs: agriculture; construction; transportation; retail trade; and finance, insurance and real estate. On the output side the construction and retail trade groups had a relatively small degree of interdependence. Most construction output goes to capital formation and most retail trade output goes to households, both sectors being in Quadrant II of the transactions table, the Final Demand sectors.

Appendix D presents these indications of interdependence by sector in the numeric order of the 108 sectors. To show those individual sectors that are heavily dependent on regional processing sectors for sales or purchases, Figures 8 and 9 illustrate the twenty sectors with the largest percent of total gross output sold to regional processing sectors and the twenty sectors with the largest percent of total gross outlay purchased from regional processing sectors, respectively.

On the output, or sales, side of sector interdependence (Figure 8), all of the top 20 sectors had more than 50 percent of the dollar value of their total output going to regional processing sectors. Dairies had the largest percent of sales to regional processing sectors with an estimated 90 percent. This reflects the perishability and bulk involved in transporting and storing the major product, milk. As shown in Table 2, most of the milk produced by regional dairy farms is sold to regional sector 18 (Dairy Products). Other agriculture sectors and the glass, stone, clay and concrete products sector appear in the top 20 with the same reasons, perishability and bulk, providing a substantial part of the explanation. Other sectors with a predominance in the top 20 in degree of output interdependence are industries which specialize in providing services or products to processing sectors and are drawn into a region to serve these processing sectors. Included in this category are those which locate and develop to serve many types of processors; this includes advertising, duplicating and addressing services, boxes and paper containers, newspapers (through charges for advertising), other professional services, other business services, sheet metal and architectural products, and legal services. Others are specialized in the types of processing sectors to which they sell: agricultural supply except farm machinery, aircraft parts and auxiliary equipment, textile mill products and electric instruments and apparatus. The sectors providing power to the processing sectors, gas services and electric services, are also included in the top 20.

Figure 7. Sales to/purchases from regional processing sectors as a percent of gross output/outlay, ten major industrial categories -- North Central Region; Texas 1967.

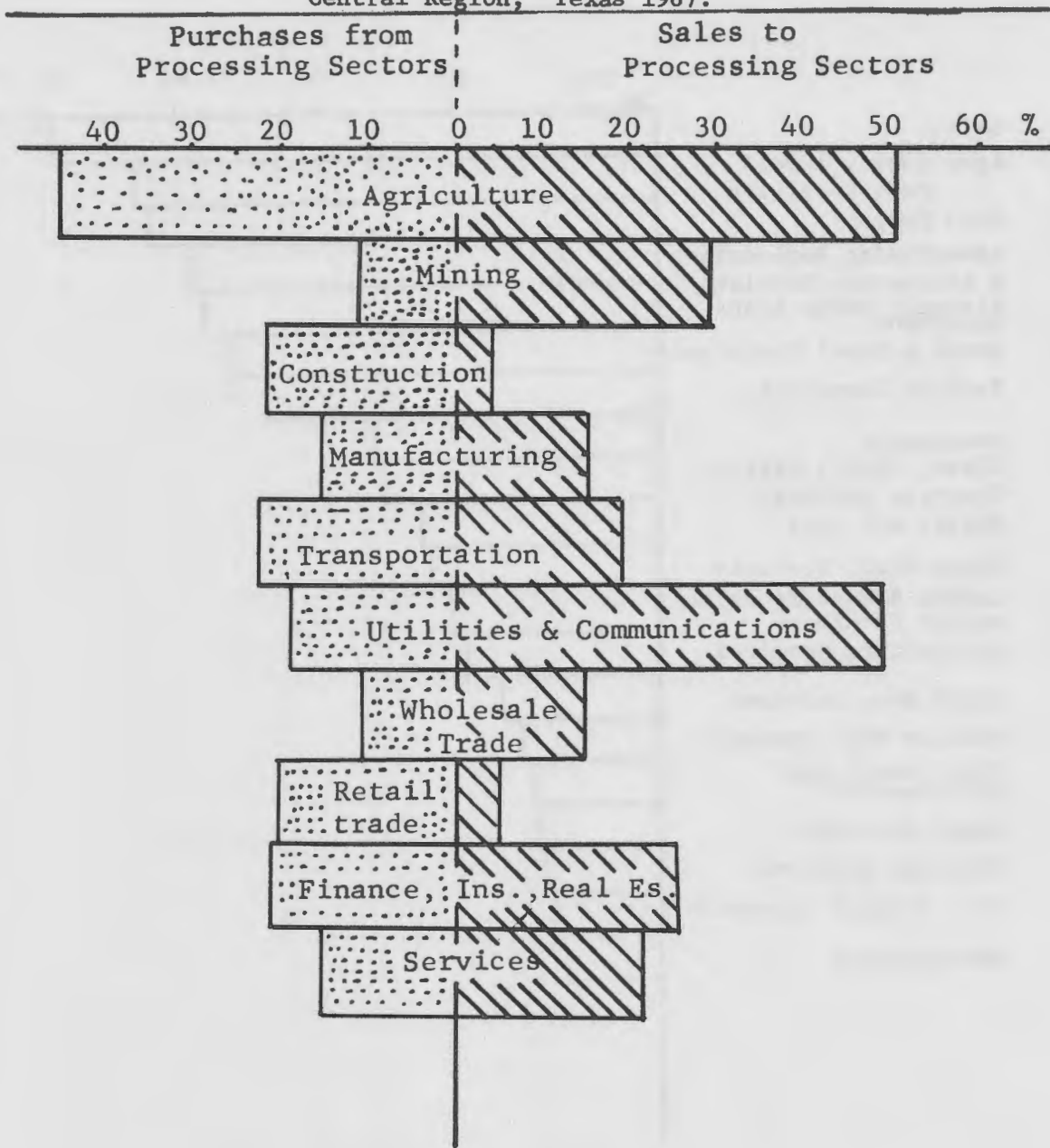


Figure 8. Sales to regional processing sectors as a percent of gross output, top 20 sectors, ranked -- North Central Region; Texas 1967.

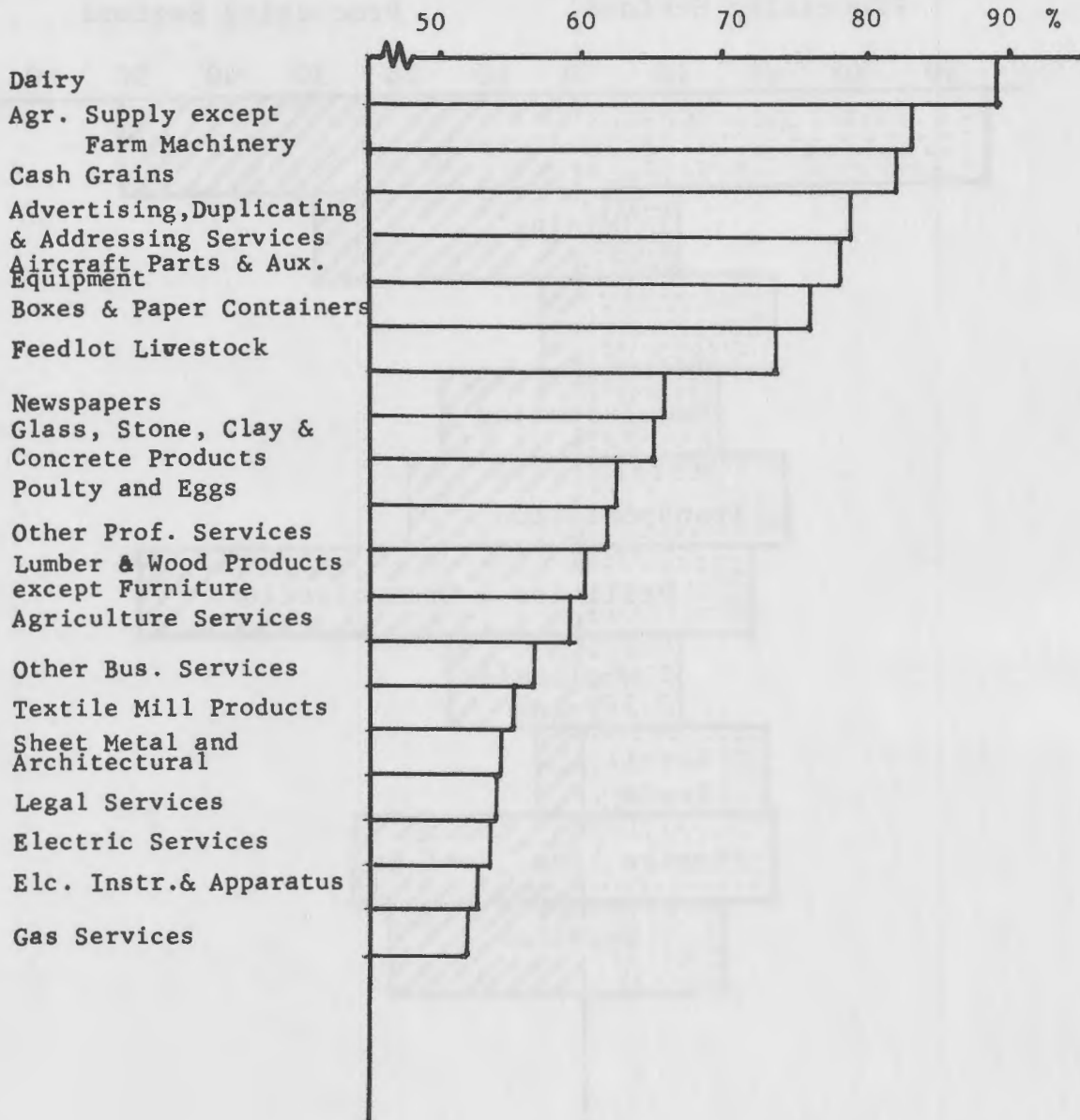
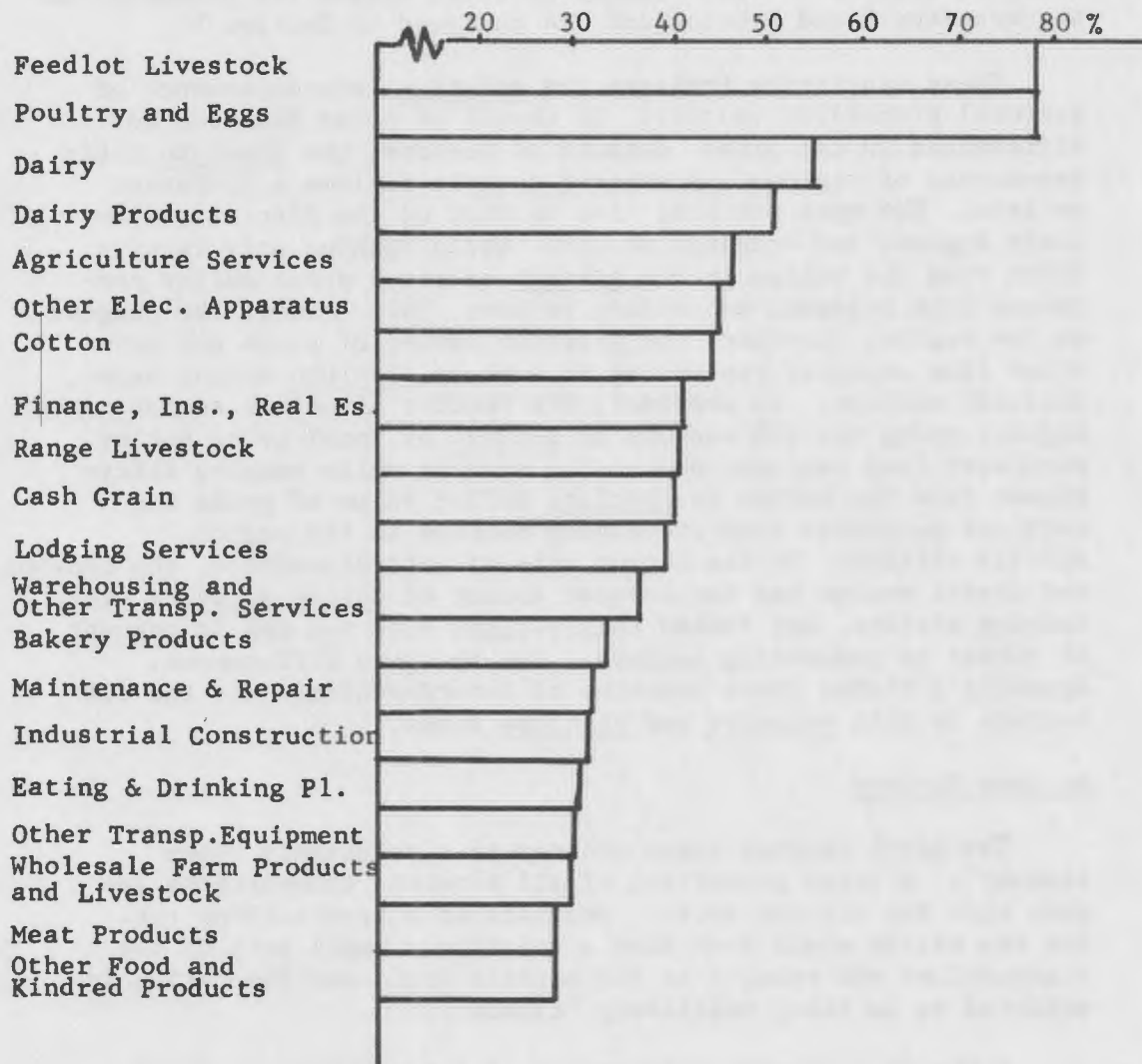


Figure 9. Purchases from regional processing sectors as a percent of gross outlay, top 20 sectors, ranked -- North Central Region; Texas 1967.



On the input, or purchases, side of sector interdependence, Figure 9, all of the top 20 sectors had more than 28 percent of the dollar value of their total outlays representing purchases from regional processing sectors. Agricultural and food processing sectors were dominant for the same reasons cited above. If final demand increases by a given amount for the products of a sector for which regional interindustry transactions are a high percent of its gross output, the impact on the regional economy will be much greater than for an equal increase in demand for products of a sector for which interindustry transactions make up a small percent of its gross output. Estimates of the direct and indirect effects of such changes in final demand are presented in sub-sections E and F below and are analyzed in Section V.

These statistics indicate the relative interdependence of regional processing sectors. It should be noted that due to differences in the gross outputs of sectors, the absolute interdependence of regional processing sectors follows a different pattern. The most striking case is that of the Aircraft, Aircraft Engines and Ordnance sector. While ranking only twenty-fifth from the bottom in the percent of total gross outlay purchased from regional processing sectors, this sector, the largest in the region, purchases the greatest amount of goods and services from regional processing sectors in absolute dollar value, \$263.289 million. In contrast, the feedlot livestock sector ranks highest among the 108 sectors in percent of total gross outlay purchased from regional processing sectors while ranking fifty-second from the bottom in absolute dollar value of goods and services purchased from processing sectors in the region, \$17.513 million. On the output side of interdependence, the banking and credit sector had the largest amount of dollar sales to processing sectors, but ranked thirty-sixth from the top in percent of output to processing sectors. Due to these differences, Appendix D states these measures of interdependence for the 108 sectors in both relative and absolute terms.

An Open Economy

The North Central Texas economy is a relatively "open economy". A large proportion of all economic transactions are made with the outside world. Analysis of a transactions table for the nation would show that a relatively small part of the transactions are related to the outside world and the nation is referred to as being relatively "closed".

Although a considerable amount of interdependence among the processing sectors of the North Central Texas economy was demonstrated previously in this analysis, there is a high degree of specialization in the economic activity of North Central Texas resulting in relatively large sales of goods and services to exports and purchases of inputs as imports. The total exports of the interindustry sectors of the model accounted for 35 percent of total interindustry output. This, of course, does not include sales to state and federal government outside the region.

Imports accounted for approximately 32 percent of total gross outlay for the interindustry sectors of the model.

Figure 10 illustrates exports and imports by the ten major industrial categories as percentage of total gross output and total gross outlay, respectively, for 1967. Exports do not include sales to state and federal government outside the region. The largest exporters were the mining, wholesale trade, and transportation sectors. Largest importers were manufacturing and construction.

Imports as a percentage of total gross outlay and exports as a percentage of total gross output vary greatly by sector, with some manufacturing sectors exporting most of their output and some retail and service sectors exporting very little. The percentages of exports and imports stated above for ten industrial categories are given in Appendix D for each of the 108 sectors of the model.

Households

Regional households supply labor inputs and purchase goods and services to interrelate with the processing sectors of the North Central Texas economy. Figure 11 illustrates by ten major industrial categories the percent of total gross output that is sold to households in North Central Texas and the percent of total gross outlay that is paid for services from North Central Texas households. Appendix D gives purchases by regional households as a percent of each of the 108 sectors' gross output and incomes received by regional households as a percent of each sector's gross outlay.

Approximately 23 percent of the gross output of the processing sectors is purchased by households within the region. However, there is a great deal of variation among sectors with respect to sales to regional households as a percent of gross output. An estimated one-third of the goods and services purchased by regional households was produced outside the region. An estimated 33 percent of gross outlays by all processing sectors represented payments for household services with considerable variation among sectors. Appendix C lists employment in each of the 108 sectors.

Government

Processing sectors in North Central Texas make payments to Local, State and Federal Government for a government services input in their "production recipe" and sell goods and services to these three levels of government. Figure 12 shows payments to government as a percent of gross outlay and sales to government as a percent of total output for the ten major industrial categories and Appendix D gives these percentages by the 108 sectors of the model. Sales to Federal Government Defense and Non-Defense have been combined in Figure 12 and Appendix D.

Figure 10. Sales to/purchases from exports/imports as a percent of gross output/outlay, ten major industrial categories -- North Central Region; Texas 1967.

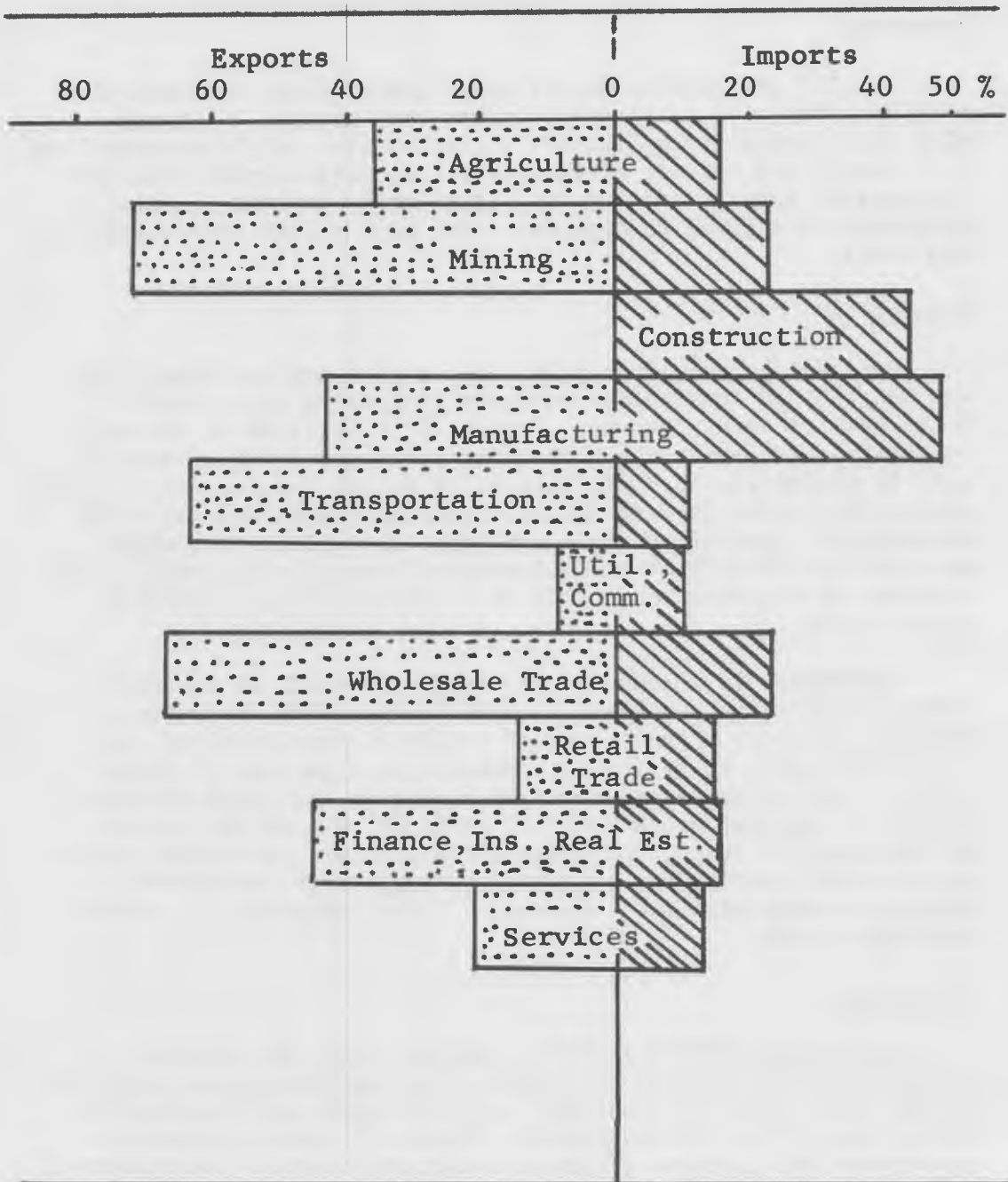


Figure 11. Sales to/purchases from regional households as a percent of gross output/outlay, ten major industrial categories -- North Central Region; Texas 1967.

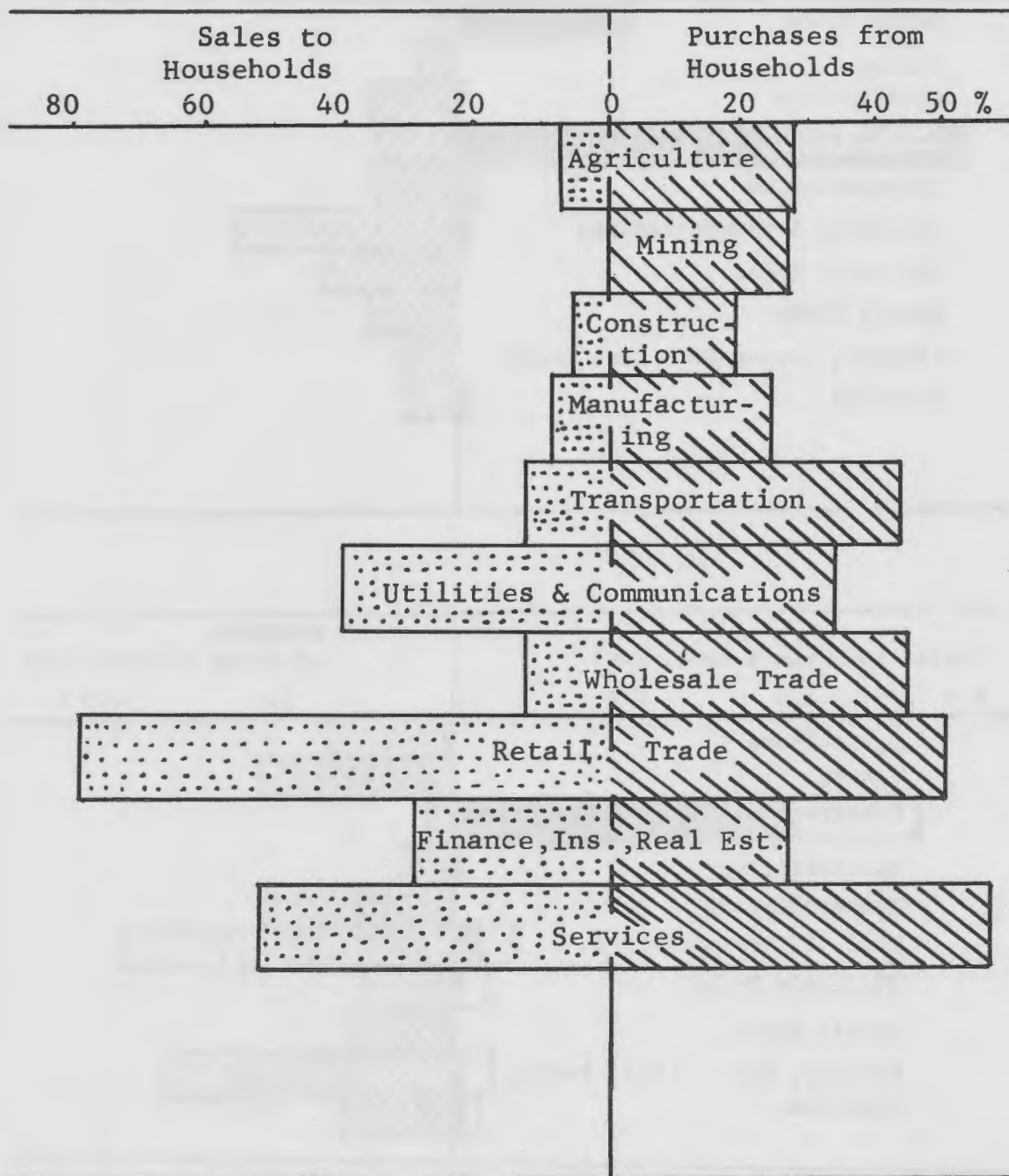
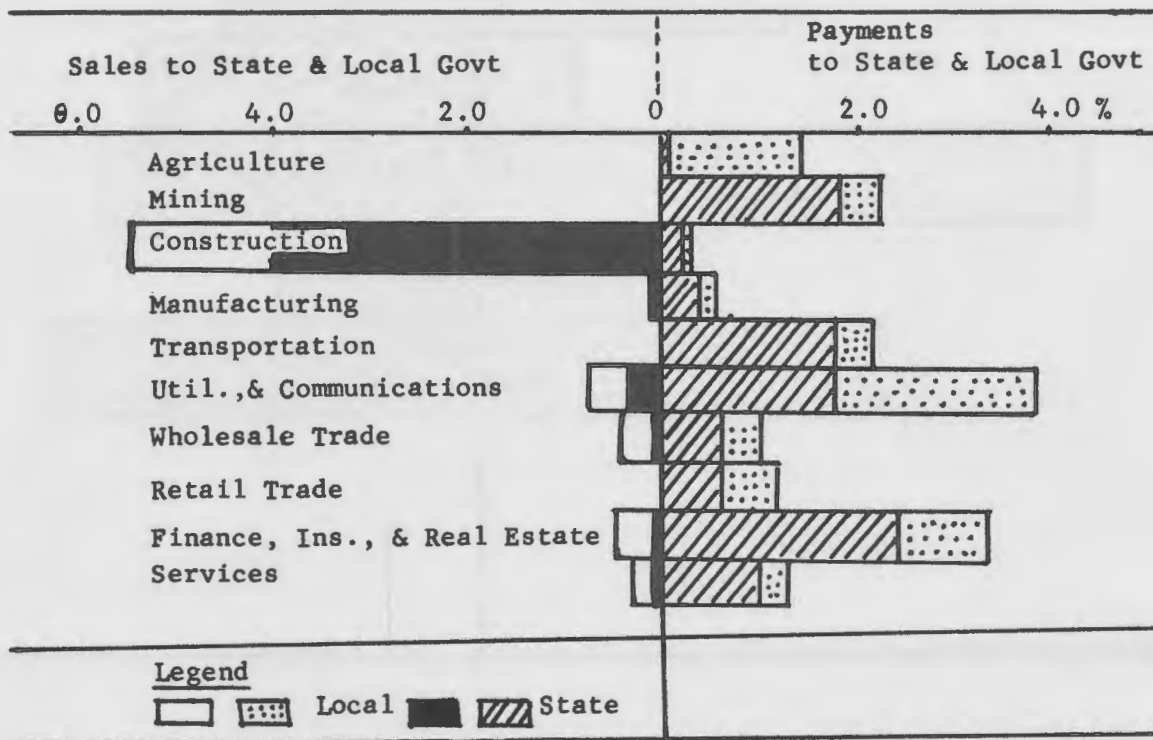
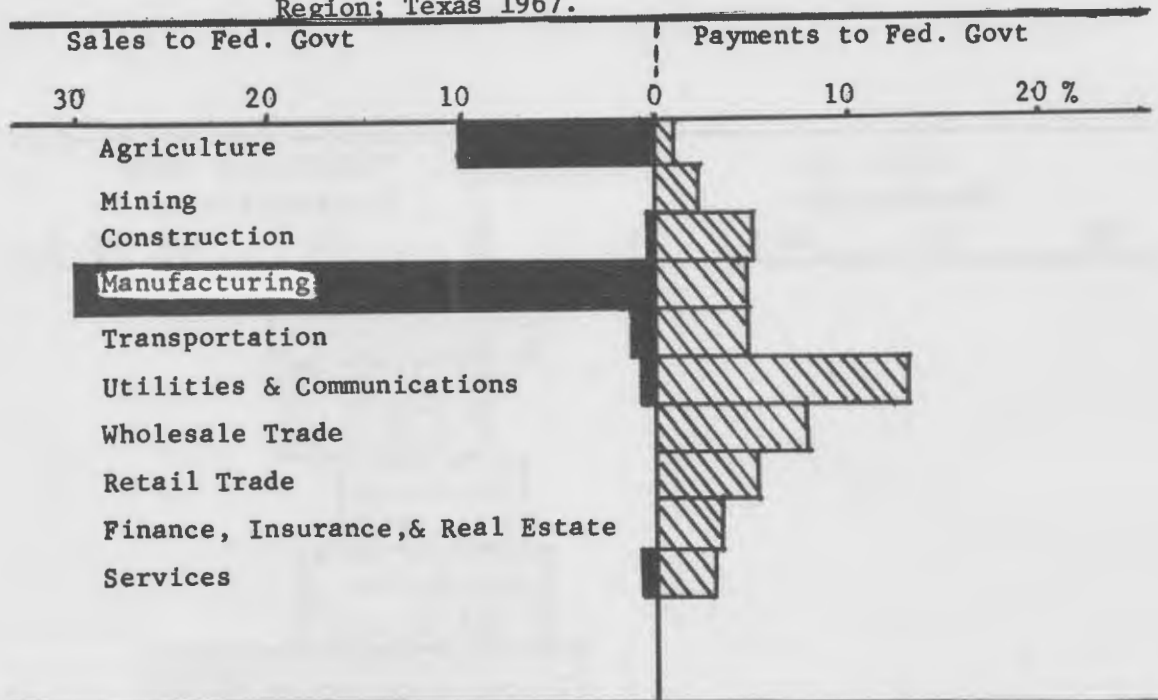


Figure 12. Sales to/purchases from federal, state and local government as a percent of gross output/outlay, ten major industrial categories -- North Central Region; Texas 1967.



Legend
 [White Box] Local [Dotted Box] Local [Black Box] State [Hatched Box] State

Capital

Sales by the ten major industrial categories to Gross Private Capital Formation as a percent of total output are listed in Table 4 and by the 108 processing sectors in Appendix D. This capital formation pertains to private capital formation within the region. Eighteen percent of capital goods purchased in 1967 by regional firms was purchased outside the region. The estimated cost of plant and equipment used up during 1967, depreciation, is not illustrated due to its being combined with corporate profits in the Gross Savings row.

Table 4. Sales to gross private capital formation as a percent of gross output -- North Central Region; Texas 1967.

<u>Industrial category</u>	<u>Sales to capital formation as a percent of gross output</u>
Agriculture	0.0
Mining	0.0
Construction	83.7
Manufacturing	1.4
Transportation	1.6
Utilities and communication	0.0
Wholesale trade	4.8
Retail trade	1.4
Finance, insurance and real estate	0.0
Services	0.0

E. INPUT COEFFICIENTS

The direct requirements or input coefficients matrix, which was derived by dividing each column entry in the processing section of the transactions table by the sector's total input (outlay), is presented in Table 5. For each dollar of output by the industry listed at the top of a column, each column entry in this table is an estimate of the direct requirement from the industry listed on the left. For example, the Meat Products sector (17) purchases \$.0416 worth of livestock from the Feedlot Livestock Production sector (5) for each \$1.00 of gross output by the Meat Products sector. It should be emphasized that this purchase of livestock from feedlots represents only those purchases from feedlots located in the region; purchases from feedlots outside the region are included in imports.

The column total for a given sector in Table 4 is an estimate of the total purchases, per dollar of output, by that

sector from all processing sectors. For example, the input requirements from all processing sectors per dollar of output for the Meat Products sector is \$.2851. Thus, \$.7149 of purchases from the final payments sectors are required per dollar of output for this sector. Imports and labor expenses account for most of the purchases from the final payments sectors in this case. The column totals in Table 4 range from \$.0608 for Oil and Gas Field Services (11) to \$.7827 for Poultry and Eggs (7). The column total for a sector indicates the degree of dependence on inputs of other regional industries as the sector produces a dollar of output.

F. INTERDEPENDENCE COEFFICIENTS

The input requirements matrix provides an estimate of the initial or direct effect on the processing sectors of the regional economy when a given sector expands output by one dollar. There is also an indirect effect associated with this initial expansion in the output of one sector. That is, any sector that provides inputs to the expanding sector will have to expand its own output to meet this new demand for its inputs. However, expanding its output requires the purchase of more inputs from its supplying sectors, and so on. The total direct and indirect effect for all processing sectors which results from a dollar increase in final demand for the output of each processing sector is computed by inverting the (I-A) matrix discussed previously. This matrix for the North Central Texas Region is presented in Table 6.

Each column entry in the matrix of interdependence coefficients is the total requirement (direct plus indirect) from the industry named at the left to support a dollar of sales to final demand by the industry named at the top of the table. For example, the Maintenance and Repair sector (16) increases its output by \$.0042 as a result of a one dollar increase in final demand for the output of the Aircraft Engines, and Ordnance sector (55). The direct requirements table (Table 5), however, shows that only \$.0036 of this amount goes directly from sector 16 to 55 to support an additional dollar's worth of output by 55. \$.0006 of the increase in the output of sector 16 is the indirect effect of the additional dollar of sales to final demand by sector 55; that is, the \$.0006 is due to the generation of additional business activity through a number of sectors of the economy that may purchase inputs from sector 16. The total impact on sector 16 is due to the additional dollar of sales to final demand by sector 55. It should be noted that when a given industrial sector sells another dollar of output to a final demand sector it will likely have to increase its output by more than one dollar because it, too, may provide inputs to sectors that have experienced increased output in order to provide more inputs to the sector experiencing the dollar increase in final demand. For example, the Other Food Products sector (21) must increase its output by \$1.0312 when it sells one more dollar of output to final demand (see the intersection of column 21 with row 21 in Table 6).

Table 5. Direct requirements per dollar of output by industrial sector -- North Central Region; Texas 1967

TABLE 5. DIRECT INPUT REQUIREMENTS : NORTH CENTRAL , TEXAS, 1967

	1	2	3	4	5	6	7	8
1 COTTON	0.02365571	0	0	0	0	0	0	0
2 CASH GRAINS	0	0.02312281	0	0.03704747	0.14294643	0.08948052	0	0
3 OTHER GRAINS	0	0	0.04173913	0.08910700	0.00303571	0.07741883	0	0
4 RANGE LVSTK.	0	0	0	0.00053097	0.49714286	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0.01126307	0	0.00779221	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0.05562057	0
8 AGSUP EXFAMA	0.04926499	0.04694737	0.03966184	0.02497989	0.01044643	0.01899351	0.07120075	0
9 AG SERVICES	0.09825919	0.02970175	0.00272947	0.01379726	0.00285714	0.02500000	0.02650237	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00775629	0.00859649	0.00565217	0.00804505	0.00026786	0.00957792	0.01927445	0.00660329
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0.02407884	0.07044643	0.16746753	0.43218375	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0	0	0.03700724	0.01071429	0	0	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0	0	0
24 LUM&WOOD PR	0.00005803	0.00021053	0.00014493	0	0	0	0.00064248	0
25 FURN & FIX	0	0	0	0	0	0	0	0
26 PAPER EX BOX	0.00013540	0.00014035	0.00019324	0.00003218	0.00004464	0.00011364	0.01771414	0.00005692
27 BOXES&CONTAIN	0	0	0	0	0	0	0	0
28 NEWSPAPERS	0	0	0	0	0	0	0	0.03290260
29 PUB&PRINTING	0	0	0	0	0.00008929	0	0	0.00261855
30 DRUGS,SPS&CL	0	0	0	0	0	0.00327922	0.00282233	0
31 OTH CHEMICAL	0.11317215	0.11503509	0.04214976	0.03860016	0.00053571	0.01870130	0.00238636	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00079304	0.00110526	0.00041063	0.00016895	0	0.00038961	0.00029830	0.00005692
34 PLASTIC PROD	0	0	0.00024155	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0	0	0	0	0	0	0	0.00290317
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PRDD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0.00158607	0.00138596	0.00154589	0.00093323	0	0	0	0
46 FM,CN, ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0	0	0	0	0	0	0	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0.00005803	0.00012281	0.00007246	0.00007241	0	0.00014610	0.00020651	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0	0	0	0	0	0	0.00039847

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0	0	0	0
60	OTH MFG	0.00013540	0.00003509	0.00014493	0.00001609	0.00004464	0	0.00068310	0
61	RAIL TRANS	0.00077369	0.00040351	0.00065217	0.00007241	0.00169643	0.00165584	0.00048186	0.00045540
62	INTERCITY TR	0	0	0	0	0	0	0	0
63	MOTOR TRANS	0.00123791	0.00110526	0.00113527	0.00004827	0.00424107	0.00282468	0.00156031	0.00034155
64	AIR TRANS	0.00005803	0.00033333	0.00043478	0	0.00022321	0.00001623	0	0
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WAREHOUS TR	0	0	0	0.00002414	0	0.00081169	0.00041302	0
68	TELEP&TELEG	0.00232108	0.00250877	0.00038647	0.00233307	0.00026786	0.00275974	0.00367132	0.01480048
69	TV,RAD,COMM	0	0	0	0	0	0	0	0
70	GAS SERVICE	0.00135397	0.00135088	0.00205314	0.00083669	0.00250000	0.00316558	0.00344187	0.00273240
71	ELEC SERV	0.00232108	0.00263158	0.00118357	0.00233307	0.00116071	0.00340909	0.00871940	0.01058803
72	WT&SAN SER	0	0	0	0	0	0	0	0.00165082
73	WHL AUTO PTS	0.00406190	0.00557895	0.00152174	0.00081255	0.00013393	0.00175325	0.00144558	0.00165082
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0.00079304	0.00107018	0.00243961	0.00543846	0.01339286	0.00952922	0.02184438	0
76	WHL MACH&EQP	0.00110251	0.00094737	0.00091787	0.00031376	0.00049107	0.00019481	0.00091783	0.00045540
77	WHL PETROLEM	0.01593810	0.02152632	0.00765700	0.00276750	0.00026786	0.00816558	0.00043597	0.00108157
78	GEN WHL	0.03808511	0.03466667	0.02094203	0.02352373	0.00040179	0.00889610	0.00977490	0.00250470
79	BLD MAT	0.02324952	0.02985965	0.00987923	0.01429606	0.00035714	0.00680195	0.00663133	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.01266925	0.01357895	0.00917874	0.01326629	0.00013393	0.02357143	0.01881554	0.00222007
83	GAS SER STA	0.01309478	0.01763158	0.00637681	0.00226870	0.00022321	0.00668831	0.00034419	0.00159390
84	APPE&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0	0	0	0	0
87	OTH RETAIL	0.00011605	0.00012281	0.00009662	0.00000805	0.00008929	0.00012987	0.00006884	0.00028462
88	BK&CREDIT	0.01104449	0.01149123	0.01246377	0.01621078	0.01584821	0.00706169	0.01583259	0.01548358
89	INSURANCE	0.01096712	0.01171930	0.00859903	0.02139984	0.00098214	0.01522727	0.02400128	0.01610975
90	F.I.R.E	0	0	0	0	0	0	0	0.00962031
91	LEGAL SER	0	0	0	0	0	0	0	0.00113850
92	LODGE SER	0	0	0	0	0	0	0	0
93	PERSNL SER	0	0	0	0	0	0	0	0
94	ADV,DUPE&AD	0	0	0	0	0	0	0	0
95	PHOTO&REC	0	0	0	0	0	0	0	0
96	OTH BUS SE	0.00058027	0.00071930	0.00043478	0.00056315	0.00026786	0.00027597	0.00091783	0.00495247
97	AUTO RENT,PK	0	0	0	0	0	0	0	0
98	REPAIR SER	0.00077369	0.00071930	0.00082126	0.00072405	0.00004464	0.00633117	0.00137675	0.00660329
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00193424	0.00212281	0.00149758	0.00194690	0.00004464	0.00237013	0.00307473	0.00034155
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELEG&SECD SCH	0.01791103	0.01975439	0.01384058	0.01810941	0.00040179	0.02204545	0.02859044	0.00324472
103	COLL & UNIV	0.00079304	0.00087719	0.00062802	0.00080451	0.00008929	0.00097403	0.00128496	0.00034155
104	OTH ED SER	0.00015474	0.00017544	0.00012077	0.00015286	0	0.00019481	0.00025240	0
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT,ACD,&BK	0	0	0	0	0	0	0	0.00182160
107	OTH PROF SER	0	0	0	0	0	0	0	0
108	OTH SER	0	0	0	0	0	0	0	0
109	HOUSEHOLDS	0.30920696	0.32400000	0.61451691	0.28194690	0.01486607	0.14599026	0.07271517	0.56719986
110	GROSS SAVING	0.06402321	0.07168421	0.04601449	0.10836685	0.00464286	0.09009740	0.06172415	0.06956225
111	FED. GOV'T.	0.00696325	0.00614035	0.01311594	0.00627514	0.00111607	0.00600649	0.00275349	0.04127056
112	STATE GOV'T.	0.00056093	0.00068421	0.00041063	0.00053902	0.00008929	0.00061688	0.00087194	0.00518017
113	LOCAL GOV'T.	0.01771760	0.01956140	0.01367150	0.01794851	0.00040179	0.02185065	0.02833804	0.00324472
114	IMPORTS	0.14531915	0.17063158	0.07432367	0.17098954	0.19705357	0.18222403	0.05084785	0.16730233
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	9	10	11	12	13	14	15	16
1 COTTON	0.00010318	0	0	0	0	0	0	0
2 CASH GRAINS	0.00015477	0	0	0	0	0	0	0
3 OTHER GRAINS	0.00015477	0	0.00005435	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0.07738341	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0.00464300	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0.02305493	0	0	0	0.00002115	0	0
11 OILFIELD SER	0	0.05665969	0.000 54348	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0.00004345	0	0.00100683	0.00268833	0.00449927	0.00048735	0.00014435
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0.00005214	0	0	0	0.01928181	0	0.00124762
16 MAINT&REPAIR	0.02017128	0.00039106	0.00076087	0.00006375	0.00017005	0.00017976	0.00003128	0.00072692
17 MEAT PROD	0.00005159	0	0.00005435	0	0	0	0.00000494	0
18 DAIRY PROD	0	0	0.00005435	0	0	0	0.00000329	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0.00000165	0
21 OTHFOODPROD	0.00056748	0	0	0.00000440	0.00000764	0.00001057	0	0.00002062
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.00046430	0	0.00010870	0.00014949	0.00038214	0.00528703	0.00000329	0.00000516
24 LUM&WOOD PR	0.00020636	0	0	0.05056145	0.00255840	0.01808694	0	0.05214751
25 FURN & FIX	0.00010318	0	0	0	0.00004777	0.00085650	0	0.01088318
26 PAPER EX BOX	0.00020636	0	0	0.00000220	0.00017960	0.00021148	0	0.00045368
27 BOXS&CONTAIN	0	0	0	0	0	0	0	0
28 NEWSPAPERS	0.00077383	0	0	0	0	0	0	0
29 PUB&PRINTING	0.00541684	0.00043451	0.00005435	0.00094968	0.00065727	0.00024849	0.00016629	0.00165490
30 DRUGS,SPS&CL	0.00005159	0.00009559	0	0.00012530	0.00008598	0.00017976	0.00005598	0.00002578
31 OTH CHEMICAL	0.14764754	0.00055617	0.00005435	0.00581237	0.01154433	0.00576287	0.00048570	0.02001866
32 PET REF	0	0	0	0.00444501	0.00475186	0.01779087	0.00590747	0.00783630
33 RUBBER PROD	0	0	0	0.00012311	0.00001720	0.00016390	0.00000988	0.00032479
34 PLASTIC PROD	0	0	0	0	0	0	0	0.00003609
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00025794	0.00141649	0	0.02927728	0.04806505	0.02938533	0.11148449	0.02024035
37 PRIMARY MET	0.00010318	0	0	0.00452855	0.00679820	0.00475833	0.00693650	0.04422356
38 FAB STEEL	0	0	0	0.00019345	0.01578603	0.01380444	0.00747489	0.00008764
39 PLATE WORK	0	0.00001738	0	0.00006375	0.01682544	0.01057407	0.00524065	0.00101047
40 SH METAL&ARC	0.00010318	0	0	0.00776228	0.00542060	0.05029555	0.00476648	0.00268600
41 METAL DDORS	0	0	0	0.00494843	0.00366277	0.00795170	0	0.00542870
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0.00072225	0.00000869	0	0.03093701	0.02105951	0.01075911	0.00317271	0.03006666
44 ELECTROPLAT	0	0	0	0	0	0.00047055	0	0
45 OTH FAB MET	0.00010318	0.00004345	0	0.00213677	0.00232721	0.00135348	0.00063882	0.00044337
46 FM,CN, ID MA	0.00588114	0	0	0.00056057	0.00049296	0.00096753	0.00007903	0.00008249
47 MIN MACH	0	0.00006083	0.00021739	0	0	0	0	0
48 MET WK MACH	0	0	0	0.00042867	0.00036494	0	0	0.00084550
49 IND PRO MACH	0	0.00012166	0	0	0	0.00090408	0	0
50 ENG&GEN MACH	0.00005159	0	0	0.00030117	0.00557154	0.03492614	0.00085615	0.00003093
51 OTH MAC&EQUP	0	0	0.00021739	0.00012311	0.00032673	0.00034366	0	0.00221685
52 ELEC INS	0.00010318	0	0	0.00285123	0.00759304	0.00779309	0.00171396	0.00710938
53 ELEC COM	0.00005159	0	0	0.00021983	0.00064581	0	0	0
54 OTH ELEC APP	0.00005159	0	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.00036112	0.00006083	0.00027174	0.00087054	0.00172343	0.00208838	0.00035234	0.00227871

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	17	18	19	20	21	22	23	24
1 COTTON	0	0	0	0	0.01217520	0	0	0
2 CASH GRAINS	0	0	0.16932024	0	0.00118600	0	0	0
3 OTHER GRAINS	0.00025948	0	0.00050312	0.00133378	0.00461791	0	0	0
4 RANGE LVSTK.	0.03269997	0	0	0	0	0	0	0
5 FEED LVSTK.	0.04156565	0	0	0	0	0	0	0
6 DAIRY	0.00737746	0.36376877	0	0	0	0	0	0
7 POULTRY&EGGS	0.05571257	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0.00009921	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00117022	0.00292746	0.00060591	0.00216739	0.00112296	0.00069355	0.00030693	0.00033907
17 MEAT PROD	0.05817258	0	0	0.01960028	0.00931068	0	0	0
18 DAIRY PROD	0.00011957	0.05286725	0	0.01818314	0.00452728	0	0	0
19 GRN MILLPRD	0.000741054	0	0	0.10098158	0.03636998	0	0	0
20 BAKERY PROD	0.00001018	0	0	0.00500167	0.00017534	0	0	0
21 OTHFOODPROD	0.00224885	0.00007932	0.01201006	0.03221907	0.02967558	0	0.00005115	0.00002713
22 TEXTILE MILL	0	0	0	0	0	0.01731552	0.05706621	0
23 FAB TEX MILL	0.00004070	0	0.00015689	0	0.00011230	0	0.00102310	0
24 LUM&WOOD PR	0.00025440	0.00001442	0.00000541	0	0.00034083	0	0.00034672	0.00599476
25 FURN & FIX	0	0.00001442	0.00000541	0	0.00000591	0	0.00007105	0.00002713
26 PAPER EX BOX	0.00472921	0.00481660	0.00424680	0.01723491	0.00209618	0.00145645	0.00184158	0.00577776
27 BOXS&CONTAIN	0.02733986	0.02991629	0.00206660	0.01328568	0.06013724	0.00138709	0.00875602	0.00014919
28 NEWSPAPERS	0	0	0	0	0.00094565	0	0.00001989	0
29 PUB&PRINTING	0.00107100	0.00012258	0.00095756	0.00781511	0.00273253	0.00053172	0.00053429	0.00020344
30 DRUGS,SPS&CL	0.00039940	0	0	0.00013546	0.00153668	0.00011559	0	0.00001356
31 OTH CHEMICAL	0.00021115	0	0	0.01111829	0.00020883	0	0.00229061	0.00104434
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00008904	0.00000721	0	0.00009378	0.00000394	0	0.00001137	0.00071883
34 PLASTIC PROD	0.00083950	0.00000721	0	0.00017714	0.00003349	0	0	0.00002713
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00049098	0	0.00278071	0.00011462	0.01500427	0	0	0.00033907
37 PRIMARY MET	0	0	0	0	0	0	0	0.00557432
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0.00001272	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0.03578289	0	0	0
43 PLU,HEAT&REF	0.00017044	0	0	0.00003126	0.00004925	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.00002163	0	0.00035428	0.00661362	0	0.00006252	0.00109859
46 FM,CN,ID MA	0.00001018	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0.00034386	0.00008471	0	0	0
50 ENG&GEN MACH	0	0	0	0.0002084	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0.00001042	0	0	0	0
52 ELEC INS	0	0.00002163	0	0	0.00000197	0	0	0.00002713
53 ELEC COM	0	0	0	0	0.00000197	0	0.00862814	0
54 OTH ELEC APP	0.00002035	0	0	0.00009378	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.00048310	0.00027591	0.00005210	0.00003743	0	0	0.00018988

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0.00013546	0.00001576	0	0	0
60	OTH MFG	0.00006105	0.00025958	0.00010279	0.00033344	0.00030931	0	0.00025009	0
61	RAIL TRANS	0.00204279	0.00135557	0.00701128	0.00498083	0.00362301	0.00966340	0.00279079	0.00798850
62	INTERCITY TR	0	0	0	0.00018756	0.00000197	0	0	0
63	MOTOR TRANS	0.01213974	0.00220641	0.01097676	0.00394923	0.01280170	0.00282042	0.01379195	0.02195820
64	AIR TRANS	0.00003053	0.00010816	0.00008656	0.00010420	0.00011230	0.00076290	0.00015915	0.00018988
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00006360	0	0	0.00035428	0.00015958	0	0	0.00010850
68	TELEP&TELEG	0.00093109	0.00188194	0.00288350	0.00251125	0.00140468	0.00187257	0.00150623	0.00366196
69	TV,RAD,COMM	0	0	0.00076280	0	0.00112887	0	0	0
70	GAS SERVICE	0.00178331	0.00060568	0.00120642	0.00503293	0.00135149	0.00446181	0.00050018	0.00306520
71	ELEC SERV	0.00339363	0.00896984	0.00500419	0.00656469	0.00624718	0.02036712	0.00285899	0.00518100
72	WT&SAN SER	0.00164085	0.00224246	0.00057886	0.00081277	0.00109537	0.00104032	0.00032967	0.00100365
73	WHL AUTO PTS	0.00014755	0.00015863	0.00039493	0.00043765	0.00009653	0.00032365	0.00005400	0.00043401
74	WHL GRO	0.00001272	0	0	0.01566147	0.00084123	0	0	0
75	WHL FM PROD	0.00343434	0	0	0	0.00016155	0.00039301	0	0
76	WHL MACH&EQP	0.00019334	0.00088689	0.00034624	0.00088571	0.00095156	0.00041613	0.00006536	0.00931765
77	WHL PETROLEM	0.00004325	0.00219920	0.00202332	0.00152134	0.00024823	0.00025430	0.00002842	0.00120709
78	GEN WHL	0.00036379	0.00302119	0.00126052	0.00035428	0.00018125	0.00032365	0.01032194	0.00413666
79	BLD MAT	0	0	0	0	0.00000197	0	0.00011652	0.00090871
80	RTL TRD-GEN	0	0	0	0	0	0	0	0.00001356
81	FOOD STORES	0	0	0	0	0.00001576	0	0	0
82	AUTO DL&REP	0.00123891	0.00207662	0.00144986	0.00820065	0.00045903	0.00057795	0.00017904	0.00158685
83	GAS SER STA	0.00015009	0.00007210	0.00024886	0.00526217	0.00023641	0.00032365	0.00001421	0.00044757
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0.00000394	0	0.00001137	0
86	EAT&DRINK	0	0	0	0	0.00002561	0	0	0
87	OTH RETAIL	0.00004579	0.00001442	0.00008656	0.00019798	0.00002561	0.00002312	0	0.00005425
88	BK&CREDIT	0.00203007	0.00364850	0.00057345	0.00230285	0.00066589	0.00069355	0.00286468	0.00983304
89	INSURANCE	0.00058002	0.00004326	0.00057886	0.00232369	0.00240746	0.00251988	0.00202346	0.00154616
90	F.I.R.E	0.00192832	0.00715280	0.00038411	0.00673141	0.00111311	0	0.00613860	0.00741886
91	LEGAL SER	0.00006614	0.00281930	0.00005951	0.00114622	0.00057330	0.00039301	0.00103447	0.00147835
92	LDG SER	0	0	0	0	0.00007486	0.00085537	0.00000568	0
93	PERSNL SER	0.00214964	0.00153583	0	0.00688771	0.00002758	0	0	0.00033907
94	ADV,DUP&AD	0.00272966	0.00564581	0.00183938	0.01400467	0.00451152	0.00090161	0.00302098	0.00191236
95	PHOTO&REC	0	0	0	0	0	0	0	0.00014919
96	OTH BUS SE	0.00337074	0.00747006	0.00233168	0.00523091	0.00549066	0.00145645	0.00075311	0.00202086
97	AUTO RENT,PK	0	0	0.00812573	0	0.00459230	0.00069355	0	0.00218361
98	REPAIR SER	0.00022132	0.00206220	0.00526928	0.00034386	0.00376486	0.00214999	0.00002558	0.00108503
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00004325	0.00016584	0.00022722	0.00025008	0.00028960	0.00027742	0.00013641	0.00009494
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00039940	0.00153583	0.00209906	0.00231327	0.00269706	0.00251988	0.00125898	0.00086802
103	COLL & UNIV	0.00004325	0.00016584	0.00017312	0.00016672	0.00048661	0.00030054	0.00016767	0.00018988
104	OTH ED SER	0.00000254	0.00001442	0.00001623	0.00002084	0.00002364	0.00002312	0.00001137	0.00001356
105	ENG & ARC	0.00008904	0	0	0	0	0	0	0
106	ACCT,ACD,EBK	0.00020097	0.00015142	0.00040575	0.00220907	0.00042357	0.00050860	0.00063944	0.00100365
107	OTH PROF SER	0.00013992	0.00100226	0	0.00029176	0.00158396	0.00064731	0.00031546	0
108	OTH SER	0.00091074	0.00317982	0.00019476	0.00119832	0.00015761	0.00016183	0.00017904	0.00062389
109	HOUSEHOLDS	0.11535301	0.13540563	0.07954232	0.26921474	0.15551164	0.28465415	0.31083462	0.32023165
110	GROSS SAVING	0.02060856	0.07482316	0.04024994	0.09594865	0.07174111	0.12809784	0.07024714	0.02987888
111	FED. GOVT.	0.01083978	0.05314846	0.02763937	0.01262921	0.04040080	0.06364435	0.05626762	0.02762746
112	STATE GOVT.	0.00063344	0.00238667	0.00191512	0.00161512	0.00494692	0.00466987	0.00273963	0.00370265
113	LOCAL GOVT.	0.00039686	0.00151420	0.00207742	0.00228201	0.00266948	0.00249676	0.00124761	0.00085446
114	IMPORTS	0.56702172	0.21500213	0.59893965	0.28503251	0.43945594	0.43721102	0.42610097	0.50412988
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	25	26	27	28	29	30	31	32
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0.00030603	0.03838772
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00039181	0.00439562	0.00450672	0.00013135	0.00101892	0.00015067	0.00879567	0.00122841
17 MEAT PROD	0	0	0	0	0	0	0.00004749	0
18 DAIRY PROD	0	0	0	0	0	0	0.00012136	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0.00001741	0.00000860	0.00002003	0.00002627	0	0.00004520	0	0
22 TEXTILE MILL	0.02538049	0	0	0	0	0	0	0
23 FAB TEX MILL	0.00080974	0	0	0	0	0	0.00003166	0
24 LUM&WOOD PR	0.01952077	0.00000860	0.00581867	0.00001313	0.00003088	0.00004520	0.00093919	0
25 FURN & FIX	0.00013931	0.00000860	0	0.00002627	0.00006175	0.00005273	0.00005804	0
26 PAPER EX BOX	0.01071814	0.00868802	0.01592373	0.00240363	0.00099319	0.00183814	0.00374621	0.00001919
27 BOXS&CONTAIN	0.01084874	0.01518253	0	0	0.01027670	0.02007639	0.00231104	0.00023033
28 NEWSPAPERS	0.00062689	0	0	0	0	0	0.00004221	0.00166987
29 PUB&PRINTING	0.00084457	0.00361284	0.01201791	0.02010902	0.07219938	0.01197050	0.00043266	0.00067179
30 DRUGS, SPS&CL	0	0	0	0	0.00006175	0.00108480	0.00075979	0
31 OTH CHEMICAL	0.00841082	0.01732443	0	0.00996913	0.00721479	0.00085880	0.05419338	0.00335893
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00061819	0	0	0	0.00003602	0.00000753	0.00000528	0.00001919
34 PLASTIC PROD	0.01216348	0	0.00008012	0.00002573	0.00002573	0.00207167	0.00167788	0.00003839
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0.00033957	0	0	0	0.00017497	0.00040680	0.00275953	0
37 PRIMARY MET	0.00021767	0	0	0.01322651	0.00069987	0	0.00077035	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0.00000515	0	0.00007387	0
40 SH METAL&ARC	0.00154982	0	0.00004006	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU, HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0.00004301	0	0	0.00016467	0	0.00002638	0
45 OTH FAB MET	0.00309964	0	0	0	0	0.00148407	0.00275425	0
46 FM, CN, ID MA	0	0	0	0	0	0	0.00046432	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.00027862	0	0	0.00531950	0.00010292	0	0.00031658	0
49 IND PRO MACH	0	0	0	0	0.00064840	0	0.00000528	0
50 ENG&GEN MACH	0	0	0	0	0.00008234	0	0	0
51 OTH MAC&EQUP	0	0	0.00136203	0	0.00037566	0	0.00056457	0
52 ELEC INS	0.00029603	0	0	0	0.00004631	0.00006780	0.00002638	0
53 ELEC COM	0	0	0	0	0.00001029	0	0	0
54 OTH ELEC APP	0	0	0	0	0.00001029	0	0.00000528	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.00001741	0.00010322	0.00002003	0	0.00014924	0	0.00015829	0.00046065

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0.00003088	0.00000753	0.00002638	0
60	OTH MFG	0.00010448	0	0	0.00010508	0.00068957	0	0	
61	RAIL TRANS	0.00285585	0.00364725	0.00577861	0.01291128	0.00318542	0.00246341	0.00431078	0.00637236
62	INTERCITY TR	0	0	0	0	0.00006690	0	0	0
63	MOTOR TRANS	0.00444050	0.00804287	0.00415619	0.01647074	0.00596944	0.00326948	0.00856351	0.02347409
64	AIR TRANS	0.00053983	0.00006882	0.00005007	0.00038090	0.00006175	0.00010547	0.00052763	0.00011516
65	PIPE TRANS	0	0	0	0	0	0	0	0.01698656
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00030474	0.00003441	0.00008012	0.00053852	0.00023672	0	0.00003693	0.00011516
68	TELEP&TELEG	0.00322154	0.00399133	0.00467697	0.00715834	0.00542911	0.00726969	0.00329244	0.00188100
69	TV,RAD,COMM	0	0	0	0.00547711	0	0	0	0
70	GAS SERVICE	0.00239439	0.00299350	0.00191285	0.00325737	0.00136885	0.00331468	0.00722860	0.00702495
71	ELEC SERV	0.00496291	0.00851598	0.00398594	0.00819597	0.00635540	0.00290034	0.00621554	0.00725528
72	WT&SAN SER	0.00039181	0.00369026	0.00045067	0.00045971	0.00086454	0.00035407	0.00074397	0.00026871
73	WHL AUTO PTS	0.00014802	0.00014623	0.00037055	0.00094569	0.00011836	0.00007533	0.00014774	0.00015355
74	WHL GRO	0	0	0.00001001	0	0.00000515	0	0.00004221	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00184585	0.00209889	0.00307458	0.00275826	0.00107038	0.00042940	0.00443213	0.00090211
77	WHL PETROLEM	0.00168913	0.00013763	0.00056084	0.00059106	0.00084396	0.00010547	0.00053819	0.00214971
78	GEN WHL	0.00254240	0.00153976	0.00087130	0.00516188	0.00723538	0.00874622	0.00376204	0.00065259
79	BLD MAT	0.00033086	0.00012903	0	0	0	0	0.00001055	0
80	RTL TRD-GEN	0	0	0	0	0.00001029	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.00193292	0.00098923	0.00142212	0.00174690	0.00053005	0.00038420	0.00016357	0.00251440
83	GAS SER STA	0.00008707	0	0	0.00052538	0.00057121	0	0.00035352	0
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.00179944	0.00040654	0	0.00017940	0
87	OTH RETAIL	0.00012190	0	0	0	0.00001029	0.00003013	0.00029548	0.00001919
88	BK&CREDIT	0.00549403	0.00504077	0.00299446	0.00390097	0.00980841	0.00169500	0.00450073	0.00792706
89	INSURANCE	0.00136698	0.00154836	0.00298445	0.00232482	0.00402423	0.00124300	0.00260652	0.00149712
90	F.I.R.E	0.00716574	0.01335031	0.00043064	0.00583175	0.00967976	0.00202647	0.00164094	0.00140115
91	LEGAL SER	0.00020026	0.00064515	0.00025037	0.00027583	0.00129166	0.00519048	0.00052763	0.00247601
92	LDGGE SER	0	0.00000860	0	0	0.00007204	0	0.00011608	0
93	PERSNL SER	0	0.00055053	0.00018027	0	0.00042712	0.00317908	0.00043266	0
94	ADV,DUPE&AD	0.00476265	0.00138492	0.00024036	0.00296841	0.01017893	0.00185321	0.00359847	0.00080614
95	PHOTO&REC	0.00014802	0	0	0	0.00275315	0.00003013	0	0
96	OTH BUS SE	0.00097517	0.00561711	0.00142212	0.01006108	0.00665902	0.00565755	0.00116607	0.00305182
97	AUTO RENT,PK	0.00195904	0	0.00064096	0.00056479	0.00033449	0.00133340	0.00042211	0
98	REPAIR SER	0.00012190	0.00425799	0.00008012	0.00085375	0.00343243	0.00047460	0.00127160	0.00021113
99	PHYS&DEN	0.00001741	0	0.00007010	0	0.00004631	0	0	0
100	HOS&LAB SER	0.00012190	0.00030107	0.00047070	0.00010508	0.00029847	0.00017327	0.00013191	0.00007678
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00116672	0.00281285	0.00434648	0.00101136	0.00278402	0.00162720	0.00121884	0.00078695
103	COLL & UNIV	0.00018284	0.00018924	0.00022033	0.00014448	0.00024701	0.00012807	0.00021633	0.00170825
104	OTH ED SER	0.00000871	0.00002581	0.00004006	0.00001313	0.00002573	0.00001507	0.00001055	0
105	ENG & ARC	0	0	0	0	0.00021613	0	0.00002111	0
106	ACCT,ACD,&BK	0.00101000	0.00083439	0.00024036	0.00118211	0.00164674	0.00253874	0.00140879	0.00038388
107	OTH PROF SER	0	0	0	0.00073554	0.00139973	0	0.00075979	0
108	OTH SER	0.00049629	0.00061074	0.00008012	0.00127405	0.00055578	0.00064787	0.00102361	0.00109405
109	HOUSEHOLDS	0.28555881	0.22544128	0.23086399	0.36984304	0.34323266	0.16198218	0.16308139	0.16504798
110	GROSS SAVING	0.04032146	0.05774524	0.07477141	0.09824654	0.02352269	0.16479212	0.10445060	0.08090211
111	FED. GOVT.	0.03119667	0.02165984	0.04660945	0.08877652	0.03340315	0.11659372	0.04519720	0.07134357
112	STATE GOVT.	0.00323024	0.00173760	0.00076113	0.00242989	0.00303618	0.00152174	0.00375148	0.04028791
113	LOCAL GOVT.	0.00115801	0.00279565	0.00429640	0.00495173	0.00275829	0.00161214	0.00120301	0.00080614
114	IMPORTS	0.48913384	0.56804184	0.56081562	0.28479674	0.40871642	0.45606925	0.53897903	0.50422265
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL , TEXAS, 1967

	33	34	35	36	37	38	39	40
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0.00150914	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0.00032728	0.00006819	0	0	0
16 MAINT&REPAIR	0.00216348	0.00091969	0.00137561	0.00102731	0.00379573	0.00094131	0.00843076	0.00028597
17 MEAT PROD	0	0.00024886	0	0.00001818	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.00002164	0	0.00001818	0.00000455	0.00001448	0.00002810	0.00002043
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.00053346	0	0	0.00013637	0	0	0	0
24 LUM&WOOD PR	0.00019264	0.00053018	0	0.00081821	0.00000455	0.00001448	0	0.00014299
25 FURN & FIX	0.00004445	0.00028132	0	0.00000909	0.00000455	0.00001448	0.00002810	0.00018384
26 PAPER EX BOX	0.00037046	0.00021640	0	0.00015910	0.00001818	0.00008689	0.00005621	0.00051066
27 BOXS&CONTAIN	0.00383795	0.01001926	0.00020634	0.00760024	0.00160012	0	0	0.00057194
28 NEWSPAPERS	0	0	0	0	0	0	0	0
29 PUB&PRINTING	0.00020746	0.00019476	0.00123805	0.00058638	0.00039094	0.00002896	0.00025292	0.00018384
30 DRUGS, SPS&CL	0.00005927	0.00025968	0	0.00004091	0	0	0	0
31 OTH CHEMICAL	0.02367969	0.00082232	0.02042781	0.00504107	0.00048185	0.00052134	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00546796	0.00002164	0	0.00008637	0	0	0	0
34 PLASTIC PROD	0.00022227	0.00209907	0	0.00110004	0	0	0	0
35 LEATHER PROD	0	0	0.00529610	0	0	0	0	0
36 GLS, ST, CL&CN	0.00069646	0.00003246	0	0.06422023	0.00235926	0.00001448	0	0.00747610
37 PRIMARY MET	0.00395649	0	0	0.00417741	0.00124100	0.02396710	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0.00090392	0	0	0	0	0	0.00089928	0
40 SH METAL&ARC	0.00010373	0.00199087	0	0.00019546	0.00014092	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU, HEAT&REF	0	0	0	0.00000909	0	0.00036204	0	0
44 ELECTROPLAT	0.00007409	0.00019476	0	0.00003182	0.00667776	0.00558991	0.00238871	0.00416701
45 OTH FAB MET	0.00146701	0.00160135	0	0.00059093	0.00005000	0.00001448	0.00056205	0.00022469
46 FM, CN, ID MA	0	0	0	0.00000455	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.00004445	0.00125511	0	0	0	0	0.00252923	0
49 IND PRO MACH	0	0	0	0.00000455	0	0	0	0
50 ENG&GEN MACH	0.00017782	0.00030296	0	0.00020910	0	0	0	0
51 OTH MAC&EQUP	0.00091874	0.00162299	0	0	0	0	0	0
52 ELEC INS	0.00031118	0.00057346	0	0.00003636	0.00000455	0.00001448	0.00002810	0.00004085
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0.00001482	0	0	0.00000909	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.00017312	0	0.00001364	0.00001364	0.00001448	0	0.00026554

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	41	42	43	44	45	46	47	48
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 PDULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00092882	0.00104760	0.00295351	0.00423501	0.00040010	0.00162189	0.00313543	0.00316332
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPRD	0	0	0	0.00020167	0	0	0.00003751	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0	0	0
24 LUM&WOOD PR	0	0	0.00008816	0.00013444	0.00017605	0.00002079	0.00003751	0
25 FURN & FIX	0	0	0.00011021	0.00020167	0.00008002	0.00002079	0.00004501	0
26 PAPER EX BOX	0	0.00168206	0.00029204	0.00053778	0.00024006	0.00047825	0.00012002	0
27 BOXS&CONTAIN	0.01025922	0.00960545	0.00008265	0	0.00268869	0.00074857	0	0
28 NEWSPAPERS	0	0	0	0	0	0.00006238	0	0
29 PUB&PRINTING	0.00080216	0.00402809	0.00230881	0.00013444	0.00118430	0.00076936	0.00313543	0.00042959
30 DRUGS,SPS&CL	0	0	0	0	0	0	0	0
31 OTH CHEMICAL	0	0.01587629	0.00428700	0	0.00075219	0.00197538	0.00069009	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0.00060495	0.00643601	0.00006722	0	0.00010397	0.00054758	0
34 PLASTIC PROD	0	0.00630035	0.01632696	0	0.00028807	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0.00016635	0.00003751	0
37 PRIMARY MET	0.00118213	0.01761738	0.00100287	0	0.02845528	0.04117109	0.00000750	0.00039053
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0.00062380	0	0
40 SH METAL&ARC	0	0.01177443	0.00121226	0	0	0	0	0
41 METAL DOORS	0.00295533	0	0	0	0.00041611	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0.00730389	0.01093340	0.00040225	0.00141167	0.02045324	0.00051984	0	0.00367101
45 OTH FAB MET	0.05454699	0.00259687	0.02364461	0.00020167	0.00244863	0.00027032	0.00005251	0
46 FM,CN,ID MA	0	0	0	0	0	0.00012476	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.00388415	0	0	0	0.00019205	0.00195459	0.00508570	0.00085917
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0	0	0.00112410	0.00026889	0.00014404	0.00054063	0.00006001	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0	0	0	0	0	0.00004501	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0	0.00003306	0.00067222	0	0.00120602	0.00037505	0.00035148

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0.00001600	0	0	0
60	OTH MFG	0	0	0.00003857	0	0.00003201	0.00008317	0.00005251	0
61	RAIL TRANS	0.00240648	0.00544457	0.00297004	0.00174778	0.00568145	0.00519837	0.00072010	0.00535031
62	INTERCITY TR	0	0.00042789	0	0	0	0	0	0
63	MOTOR TRANS	0.00312421	0.02080444	0.00444129	0.00302501	0.00813008	0.02054396	0.00458313	0.00515504
64	AIR TRANS	0.00008444	0.00053118	0.00012674	0.00006722	0.00024006	0.00054063	0.00003751	0.00222604
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00037997	0.00042789	0.00016531	0	0.00051213	0.00012476	0.00018753	0
68	TELEP&TELEG	0.00401081	0.00416089	0.00145471	0.00564668	0.00555342	0.00307743	0.00253535	0.00574084
69	TV, RAD, COMM	0	0	0	0	0	0.00010397	0	0
70	GAS SERVICE	0.00130879	0.00210995	0.00123981	0.00584835	0.00185648	0.00068618	0.00111015	0.00132781
71	ELEC SERV	0.00413747	0.00529702	0.00170819	0.02157838	0.00632162	0.00696582	0.00832614	0.01034914
72	WT&SAN SER	0.00046441	0.00054593	0.00032511	0.00295778	0.00129633	0.00039508	0.00055508	0.00050769
73	WHL AUTO PTS	0.00016888	0.00019181	0.00014878	0.00013444	0.00014404	0.00110205	0.00096013	0.00015621
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00046441	0.00215422	0.00044082	0.00591557	0.00531336	0.00469933	0.00362300	0.01323908
77	WHL PETROLEM	0.00025331	0.00119515	0.00035817	0.00053778	0.00025607	0.00083174	0.00009001	0.00066391
78	GEN WHL	0.00160432	0.01295482	0.01890026	0.03287174	0.01662826	0.00756883	0.00792109	0.00109349
79	BLD MAT	0	0.00004426	0	0	0	0.00002079	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.00080216	0.00026559	0.00025898	0.00094111	0.00099225	0.00062380	0.00008251	0.00046864
83	GAS SER STA	0.00084438	0.00038363	0.00001102	0.00020167	0.00016004	0.00037428	0	0.00042959
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0.00057544	0	0	0.00048012	0.00027032	0	0.00058580
87	OTH RETAIL	0	0	0.00002755	0	0.00014404	0.00024952	0	0
88	BK&CREDIT	0.01287680	0.00420515	0.00546069	0.00484001	0.00603354	0.00293188	0.00636087	0.00550652
89	INSURANCE	0.00709280	0.01304335	0.00031409	0.01364614	0.00585750	0.00973135	0.00006751	0.00788878
90	F-I-R-E	0.01389006	0.00143123	0.00273310	0.00154611	0.00307279	0.00368045	0.00133518	0.00866984
91	LEGAL SER	0.00037997	0.00025083	0.00014327	0.00497446	0.00136035	0.01077102	0.00048757	0.00042959
92	LODGE SER	0	0.00103284	0	0	0.00040010	0.00043666	0	0.00113255
93	PERSNL SER	0	0.00025083	0.00001102	0	0.00004159	0	0	0
94	ADV, DUP&AD	0.00460187	0.00150500	0.00998463	0.00168056	0.00110428	0.00328537	0.00024003	0.00054675
95	PHOTO&REC	0	0	0	0	0	0	0	0
96	OTH BUS SE	0.00164654	0.00059020	0.00375250	0.00114278	0.00142436	0.00141396	0.00442561	0.00152308
97	AUTO RENT, PK	0	0.00005902	0	0	0.00363293	0.00176745	0	0
98	REPAIR SER	0.00067550	0.00327559	0.00021490	0.00894058	0.00865822	0.00640439	0.00096013	0.00206983
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00029553	0.00010328	0.00009919	0.00013444	0.00028807	0.00018714	0.00024003	0.00031243
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00253314	0.00092956	0.00092022	0.00147889	0.00270469	0.00166348	0.00221280	0.00292900
103	COLL & UNIV	0.00021110	0.00028034	0.00015980	0.00006722	0.00027207	0.00018714	0.00018002	0.00031243
104	OTH ED SER	0.00004222	0.00001475	0.00006061	0	0.00001600	0.00002079	0.00002250	0.00003905
105	ENG & ARC	0	0	0.00001102	0	0	0.00002079	0.00357049	0
106	ACCT, ACD, &BK	0.00265980	0.00159353	0.00053450	0.00026889	0.00281672	0.00066539	0.00021753	0.00343669
107	OTH PROF SER	0	0	0	0	0.00001600	0.00002079	0	0.00562368
108	OTH SER	0.00295533	0.00002951	0.00008816	0.00013444	0.00006402	0.00029111	0.00011252	0.00152308
109	HOUSEHOLDS	0.26859748	0.12547585	0.15125166	0.39271309	0.26870879	0.26515845	0.28736451	0.50851363
110	GROSS SAVING	0.03787047	0.14554254	0.06019980	0.10090078	0.08288522	0.11026782	0.11092525	0.16425838
111	FED. GOVT.	0.01448113	0.04445658	0.06233228	0.07791073	0.05668651	0.07668635	0.03469227	0.10774818
112	STATE GOVT.	0.00156210	0.00565113	0.00290392	0.00040333	0.00366494	0.00313982	0.00189026	0.00445208
113	LOCAL GOVT.	0.00249092	0.00091481	0.00092022	0.00147889	0.00270469	0.00164268	0.00218280	0.00288995
114	IMPORTS	0.52322047	0.50978251	0.60498460	0.29819844	0.43595160	0.39374532	0.49831602	0.11403577
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	49	50	51	52	53	54	55	56
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0.00020394	0	0.00123032	0	0	0
16 MAINT&REPAIR	0.00659848	0.00023173	0.00010981	0.00590748	0.00048764	0.00054806	0.00359624	0.00442424
17 MEAT PROD	0	0	0	0	0	0	0.0000084	0
18 DAIRY PROD	0	0	0	0	0	0	0.00000125	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 DTHFOODPROD	0.00003881	0	0.00001569	0.00002637	0.00002887	0	0.00002213	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.00002885	0.00001128	0
24 LUM&WOOD PR	0.00450249	0.00004213	0.00111381	0.00010549	0.00038979	0	0.00018752	0.00013636
25 FURN & FIX	0.00003881	0.00004213	0.00001569	0.00002637	0.00010426	0	0.00005387	0
26 PAPER EX BOX	0.00077629	0.00012640	0.00003138	0.00007912	0.00011870	0	0.00049030	0
27 BOXS&CONTAIN	0	0.01373528	0	0.00058020	0.00050849	0	0.00062478	0
28 NEWSPAPERS	0	0	0	0	0	0	0.00011944	0
29 PUB&PRINTING	0.00184369	0.00042133	0.00067456	0.00242629	0.00197140	0.00187493	0.00465786	0.00063636
30 DRUGS,SPS&CL	0	0	0	0	0.00013795	0	0.00010316	0
31 OTH CHEMICAL	0.00044637	0	0	0.00058020	0.01720042	0.01520134	0.00094552	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0	0	0.00216256	0.00001444	0.00031730	0.00298608	0
34 PLASTIC PROD	0	0	0.00007844	0.00295374	0.00021013	0.12541825	0.00204766	0.00073485
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0.01879121	0.00045494	0	0.00000802	0	0.00008478	0
37 PRIMARY MET	0.00304695	0.00299143	0.00103538	0.06023524	0.00118220	0.24633668	0.00099856	0.03699242
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0.00064044	0.00238050	0	0	0.00004010	0	0.00069285	0
40 SH METAL&ARC	0	0.00383408	0.02069182	0	0.00054699	0	0.00015160	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0.00119503	0	0.00016747	0
43 PLU,HEAT&REF	0	0	0.01300494	0	0.00036894	0	0.00102696	0
44 ELECTROPLAT	0.00190192	0.00686764	0	0.00145050	0.00049887	0.00092304	0.00056422	0.00030303
45 OTH FAB MET	0.00003881	0.00503486	0.00001569	0.00925682	0.00659112	0.00098073	0.00170812	0
46 FM,CN, ID MA	0.00011644	0	0	0	0	0	0.00025142	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.00638500	0.00014746	0.00205506	0	0.00018607	0	0.00058594	0
49 IND PRO MACH	0.00941254	0	0	0	0.00003369	0	0.00046566	0
50 ENG&GEN MACH	0.00265880	0.00018960	0	0	0.00006095	0	0.00002213	0
51 OTH MAC&EQUP	0.00001941	0	0.00784375	0	0.00522926	0.00005769	0.00041930	0
52 ELEC INS	0.00116444	0.01561019	0.00519256	0.00042196	0.00162011	0.00028845	0.00202093	0
53 ELEC COM	0	0.00008427	0.00012550	0.09826468	0.00814706	0	0.01471280	0
54 OTH ELEC APP	0.00011644	0	0	0	0.00121749	0.00279797	0.00016079	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0.00040135	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0.04260067	0
57 MOTOR VECH	0.00007763	0.00004213	0.00034513	0	0.00000481	0.00005769	0.00016246	0

58	OTH TRAN EQ	0	0.00002107	0	0	0	0	0.00002339	0
59	PROF, SC&CONT	0	0.00297036	0	0	0.00285043	0	0.00169935	0
60	OTH MFG	0	0	0	0.00073844	0.00008662	0.00005769	0.00000919	0.00003030
61	RAIL TRANS	0.00357094	0.00242263	0.00183544	0.00685690	0.00241091	0.00562478	0.00117230	0.00097727
62	INTERCITY TR	0.00131970	0	0	0	0	0	0.00000042	0
63	MOTOR TRANS	0.00304695	0.00775243	0.00363950	0.00284825	0.00091753	0.00103842	0.00024264	0.00104545
64	AIR TRANS	0.00032992	0.00021066	0.00039219	0.00118677	0.00144366	0.00051921	0.00081063	0.00015909
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00034933	0	0	0	0.00086780	0	0.00018961	0.00260606
68	TELEP&TELEG	0.00335746	0.00693084	0.00423563	0.00846564	0.00193771	0.00250952	0.00062561	0.00384091
69	TV,RAD,COMM	0	0	0	0	0	0	0.0002046	0
70	GAS SERVICE	0.00108681	0.00219090	0.00153738	0.00102854	0.00017324	0.00144225	0.00036501	0.00119697
71	ELEC SERV	0.00694781	0.00743643	0.00815750	0.00181972	0.00629917	0.01217261	0.00145378	0.00210606
72	WT&SAN SER	0.00032992	0.00067412	0.00069025	0.00050108	0.00019088	0.00103842	0.00007434	0.00030303
73	WHL AUTO PTS	0.00015526	0.00014746	0.00029806	0.00121314	0.00018126	0.00014423	0.00003341	0.00018939
74	WHL GRO	0	0	0	0	0	0	0.00000042	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00801522	0.00141145	0.00680838	0.00242629	0.00020692	0.00106727	0.00411703	0.00172727
77	WHL PETROLEM	0.00009704	0.00006320	0.00001569	0.00018461	0.00019088	0.00005769	0.00051703	0.00003030
78	GEN WHL	0.00560871	0.00781563	0.00207075	0.00485258	0.00558055	0.00072113	0.00272881	0.00175000
79	BLD MAT	0	0	0	0	0.00000802	0	0.00008520	0
80	RTL TRD-GEN	0	0	0	0	0.00000481	0	0.00000418	0
81	FOOD STORES	0	0	0	0	0	0.00002885	0.00000084	0
82	AUTO DL&REP	0.00025229	0.00046346	0.00047063	0.00031647	0.00003689	0.00002885	0.00001044	0.00009091
83	GAS SER STA	0.00009704	0.00004213	0.00018825	0	0	0	0	0
84	APPE&ACCESS	0	0	0	0	0	0.00005769	0	0
85	FURNITURE	0	0	0	0	0.00003208	0	0.00000125	0
86	EAT&DRINK	0	0.00010533	0.00036081	0	0	0	0	0
87	OTH RETAIL	0	0.00004213	0.00003138	0.00005275	0.00001123	0.00002885	0.00020923	0.00010606
88	BK&CREDIT	0.01026646	0.00292823	0.00500431	0.02004325	0.00535919	0.01153802	0.00082023	0.00080303
89	INSURANCE	0.00279465	0.00037919	0.00141188	0.00184609	0.00026788	0.00196146	0.00177452	0.00103788
90	F.I.R.E	0.00015526	0.00048453	0.00389050	0.00981064	0.00938059	0.00530749	0.00133726	0.00224242
91	LEGAL SER	0.00126147	0.00124292	0.00167856	0.00063294	0.00457801	0.00118265	0.00000334	0.00025758
92	LDGE SER	0.00025229	0.00004213	0	0	0.00003689	0	0.00003090	0
93	PERSNL SER	0.00060163	0.00052666	0.00034513	0	0	0	0.00005387	0
94	ADV,DUPE&AD	0.00058222	0.00029493	0.00400031	0.00398228	0.00047480	0.00222107	0.00082858	0.00109091
95	PHOTO&REC	0	0.00004213	0	0	0.00012993	0	0.00029944	0
96	OTH BUS SE	0.00017467	0.00021066	0.01060475	0.00709426	0.00072183	0.00455752	0.00119192	0.00031061
97	AUTO RENT,PK	0.00015526	0.00008427	0	0.00118677	0.00032402	0.00037499	0.00015285	0
98	REPAIR SER	0.00733596	0.00160104	0.00020394	0.00005275	0.00002727	0.00066344	0.00005722	0.00109091
99	PHYS&DEN	0.00042696	0.00052666	0	0	0.00004331	0.00098073	0.00001378	0
100	HOSE&LAB SER	0.00011644	0.00002107	0.00014119	0.00018461	0.00017966	0.00008654	0.00053206	0.00003030
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00102859	0.00023173	0.00136481	0.00181972	0.00170512	0.00089420	0.00318821	0.00028788
103	COLL & UNIV	0.00013585	0.00008427	0.00020394	0.00015824	0.00015239	0.00020192	0.00041972	0.00013636
104	OTH ED SER	0	0	0.00001569	0.00002637	0.00001444	0	0.00002756	0
105	ENG & ARC	0.00494886	0.00396048	0.00461213	0	0.00020211	0	0.00073378	0
106	ACCT,ACD,&BK	0.00135851	0.00094799	0.00127069	0.00145050	0.00003850	0.00230760	0.00003007	0.00023485
107	OTH PROF SER	0.00807344	0.00876361	0.00870657	0.00730524	0.00032081	0.00380755	0.00020840	0.00103788
108	OTH SER	0.00034933	0.00044239	0.00021963	0.00007912	0.00084214	0.00008654	0.00081397	0.00012121
109	HOUSEHOLDS	0.33326217	0.27156671	0.36641305	0.37196055	0.37572404	0.23797162	0.28059267	0.21612121
110	GROSS SAVING	0.08554738	0.07067771	0.04414464	0.03528667	0.06166197	0.08486212	0.08247962	0.06901515
111	FED. GOV'T.	0.06932288	0.05767975	0.01120088	0.05134764	0.04012736	0.06816084	0.06123588	0.03073485
112	STATE GOV'T.	0.00221243	0.00216984	0.00352969	0.00205707	0.00192809	0.00424022	0.00428951	0.00284091
113	LOCAL GOV'T.	0.00104799	0.00025280	0.00133344	0.00181972	0.00165379	0.00092304	0.00315146	0.00028030
114	IMPORTS	0.39420110	0.46356570	0.44596439	0.26488739	0.42134212	0.14630207	0.45829265	0.61293939
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	57	58	59	60	61	62	63	64
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00161525	0.00341476	0.00008607	0.00632099	0.08893856	0.00224581	0.00208913	0.03320350
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.00002558	0	0.00009877	0.00167327	0.00003403	0.00001311	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0.00010231	0.00005738	0	0	0	0	0.00158049
24 LUM&WOOD PR	0.00005965	0.00790382	0.00002869	0.00007901	0.00001277	0.00003403	0.00001311	0.00023145
25 FURN & FIX	0	0.04505691	0	0.00009877	0.00001277	0.00003403	0.00001573	0.00005290
26 PAPER EX BOX	0.00000612	0.00196956	0.00006694	0.00353580	0.00003193	0.00006805	0.00004194	0.00021161
27 BOXS&CONTAIN	0.00076939	0	0.00170224	0.00007901	0	0	0.00072084	0.00001984
28 NEWSPAPERS	0	0.00001279	0.00000956	0	0	0	0	0
29 PUB&PRINTING	0.00007648	0.00012789	0.00484852	0.00106667	0.00137949	0.01020825	0.00257931	0.00039016
30 DRUGS,SPS&CL	0.00000306	0	0	0	0	0	0	0.00005290
31 OTH CHEMICAL	0.00043441	0.00260903	0.00217084	0	0	0	0	0.00011903
32 PET REF	0	0	0	0	0.00894112	0	0	0
33 RUBBER PROD	0.00458114	0.01204758	0.00003825	0.00001975	0.00015966	0.00911937	0.00249018	0
34 PLASTIC PROD	0	0	0.00025821	0.00047407	0	0	0	0.00076710
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00001988	0.00003837	0.00005738	0.00353580	0.00037042	0	0	0.00007274
37 PRIMARY MET	0.00133534	0.08598286	0.00063117	0.01953580	0.02021970	0	0	0.00136888
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0.00001984
40 SH METAL&ARC	0	0.04765315	0.00059292	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0.00021823
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0.00065468
44 ELECTROPLAT	0	0.00177772	0.00043991	0.00088889	0	0	0	0
45 OTH FAB MET	0.00001530	0.00456580	0.00061204	0.00491852	0.00001277	0.00003403	0.00001835	0.00022484
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0.00003518	0.00007674	0	0	0.00116873	0	0	0.00017855
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0.00008953	0	0	0	0	0	0.00216243
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.00020191	0.00058831	0.00031558	0.00013827	0.00108571	0.00003403	0.00002097	0
53 ELEC COM	0	0.00031973	0.00012432	0	0	0	0	0.00035710
54 OTH ELEC APP	0	0	0.00000956	0	0.00004471	0.00142915	0.00012320	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0.00932423
57 MOTOR VECH	0.00027686	0	0.00004782	0.00015802	0.00019798	0.01116102	0.00608915	0

58 OTH TRAN EQ	0	0.00061389	0	0	0	0	0	0	0
59 PROF, SC&CONT	0	0	0.01126540	0	0	0	0	0	0
60 OTH MFG	0.00000306	0.00007674	0.00009563	0.00035556	0.00001916	0.00023819	0.00002621	0.00003968	0.00003968
61 RAIL TRANS	0.00501402	0.00185446	0.00323235	0.00406914	0.01435688	0.00095277	0.00103801	0.00051581	0.00051581
62 INTERCITY TR	0	0	0	0	0	0	0	0	0
63 MOTOR TRANS	0.00646408	0.00450185	0.00296458	0.00898765	0.00756163	0.00190554	0.03409192	0.00170613	0.00170613
64 AIR TRANS	0.00023709	0.00019184	0.00033471	0.00057284	0.00128369	0.00003403	0.00001311	0.01702828	0.01702828
65 PIPE TRANS	0	0	0	0	0	0	0	0	0
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0	0.00067784	0.00037296	0.00041481	0.00173074	0	0	0	0
68 TELEP&TELEG	0.00155101	0.00308224	0.00476245	0.00481975	0.00883255	0.00248401	0.02468689	0.00598470	0.00598470
69 TV,RAD,COMM	0	0	0	0	0	0	0	0	0
70 GAS SERVICE	0.00073880	0.00107431	0.00128146	0.00207407	0.00118789	0.00272220	0.00096462	0.00064807	0.00064807
71 ELEC SERV	0.00179575	0.00212303	0.00227603	0.01337284	0.00346149	0.00738397	0.00219136	0.00407356	0.00407356
72 WT&SAN SER	0.00012084	0.00039647	0.00046859	0.00118519	0.00321880	0.00125902	0.00079948	0.00010581	0.00010581
73 WHL AUTO PTS	0.00001988	0.00019184	0.00012432	0.00069136	0.00050453	0.01524432	0.01573796	0.00015210	0.00015210
74 WHL GRO	0	0	0	0	0	0	0	0	0
75 WHL FM PROD	0	0	0	0	0	0	0	0	0
76 WHL MACH&EQP	0.00312191	0.00352986	0.01014651	0.00292346	0.00054285	0.00020416	0.00019397	0.00016532	0.00016532
77 WHL PETROLEM	0.00141794	0.00054994	0.00003825	0.00059259	0.00026185	0.01456377	0.01631463	0.01896587	0.01896587
78 GEN WHL	0.00502626	0.02941553	0.00054510	0.01850864	0.00216503	0.00374302	0.00273658	0.01009132	0.01009132
79 BLD MAT	0.00009636	0.01789231	0.00015301	0	0	0	0	0	0
80 RTL TRD-GEN	0	0	0	0	0	0	0	0	0
81 FOOD STORES	0	0	0	0	0	0	0	0	0
82 AUTO DL&REP	0.00036710	0.00029416	0.00017214	0.00120494	0.00046622	0.01361100	0.00810751	0.00001323	0.00001323
83 GAS SER STA	0	0.00040926	0.00013388	0.00043457	0	0	0	0	0
84 APP&ACCESS	0	0	0	0	0	0	0	0	0
85 FURNITURE	0	0	0	0	0	0	0	0	0
86 EAT&DRINK	0	0.00006395	0.00002869	0	0	0	0	0	0
87 OTH RETAIL	0.00055371	0.00016626	0.00003825	0	0	0	0.00003670	0.00007274	0.00007274
88 BK&CREDIT	0.00059807	0.00280087	0.00047816	0.00671605	0.00422787	0.00680550	0.02621246	0.01983878	0.01983878
89 INSURANCE	0.00050018	0.00066505	0.00354793	0.00466173	0.00115596	0.02409147	0.03671317	0.01632070	0.01632070
90 F.I.R.E	0.00054454	0.00205909	0.00619692	0.00928395	0.01457402	0	0.03670530	0.00368340	0.00368340
91 LEGAL SER	0.00006577	0.00035810	0.00275419	0.00075062	0.00383191	0.00578467	0.01419929	0.00529034	0.00529034
92 LODGE SER	0.00011013	0	0.00040165	0	0	0	0	0	0
93 PERSNL SER	0.00014072	0	0.00035384	0.00001975	0.00442585	0	0	0	0
94 ADV,DUP&AD	0.00002600	0.00218698	0.00375832	0.00428642	0.00123898	0.02613312	0.01871045	0.00737341	0.00737341
95 PHOTO&REC	0	0	0	0	0	0	0	0	0
96 OTH BUS SE	0.00046347	0.00933623	0.00048772	0.00185679	0.00457274	0.00125902	0.00035387	0.00058855	0.00058855
97 AUTO RENT,PK	0.00099730	0.00067784	0.00000956	0	0	0	0	0	0
98 REPAIR SER	0.00029062	0.00054994	0.00057379	0.00021728	0.00011496	0.00037430	0.00020446	0.00011903	0.00011903
99 PHYS&DEN	0	0	0.00003825	0	0	0	0	0	0
100 HOS&LAB SER	0.00004895	0.00006395	0.00019126	0.00031605	0.00094520	0.00023819	0.00022805	0.00005290	0.00005290
101 OTH MED SER	0	0	0	0	0	0	0	0	0
102 ELE&SEC SCH	0.00045123	0.00065226	0.00213258	0.00296296	0.00881339	0.00227984	0.00213107	0.00047613	0.00047613
103 COLL & UNIV	0.00020191	0.00030694	0.00022952	0.00061235	0.00044706	0.00095277	0.00144693	0.00008597	0.00008597
104 OTH ED SER	0.00000459	0	0.00001913	0.00001975	0.00007664	0.00003403	0.00001835	0.00000661	0.00000661
105 ENG & ARC	0	0.00003837	0	0	0	0	0	0	0
106 ACCT,ACD,&BK	0.00020038	0.00011510	0.00115714	0.00057284	0	0.00421941	0.01062129	0	0
107 OTH PROF SER	0	0	0	0.00547160	0	0	0	0	0
108 OTH SER	0.00016826	0.00007674	0.00081287	0.00199506	0.00008302	0.00044236	0	0.00008597	0.00008597
109 HOUSEHOLDS	0.09240754	0.30149636	0.24940708	0.33495309	0.39860135	0.45144277	0.37116315	0.60789319	0.60789319
110 GROSS SAVING	0.08170342	0.02840517	0.08306556	0.05738272	0.28783370	0.17687491	0.13124053	0.06949524	0.06949524
111 FED. GOVT.	0.04933562	0.02716460	0.04889641	0.05181235	0.05999489	0.05910576	0.02798966	0.08629207	0.08629207
112 STATE GOVT.	0.00438077	0.00662489	0.00372007	0.00730864	0.00167965	0.02004219	0.03249558	0.00154081	0.00154081
113 LOCAL GOVT.	0.00044511	0.00065226	0.00173093	0.00296296	0.00873675	0.00221179	0.00211010	0.00046290	0.00046290
114 IMPORTS	0.73095767	0.33430106	0.53950539	0.40468148	0.02880317	0.11896012	0.16630231	0.06962088	0.06962088
TOTAL	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	65	66	67	68	69	70	71	72
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0.01824088	0	0	0	0	0.15629447	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.03310845	0	0.01968716	0.00186769	0.01180145	0.00191323	0.00167452	0.04929102
17 MEAT PROD	0	0	0	0	0	0	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.00005082	0	0	0	0	0	0.00001570
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.00021258	0.00022004	0.00009422
24 LUM&WOOD PR	0	0.00005082	0	0.00000445	0.00052404	0	0.00000746	0.00009422
25 FURN & FIX	0	0.00005082	0	0.00003558	0.00031443	0	0.00000373	0.00001570
26 PAPER EX BOX	0.00687156	0.00010164	0	0.00019122	0.00115289	0.00033659	0.00020512	0.00078514
27 BOXS&CONTAIN	0	0	0	0.00003113	0.00010481	0	0.00006340	0
28 NEWSPAPERS	0	0	0	0	0.00314426	0.00085033	0.00111883	0
29 PUB&PRINTING	0.00274863	0.00060982	0.00215750	0.00190326	0.00427619	0.00005315	0.00024614	0.00070663
30 DRUGS,SPS&CL	0	0	0	0	0.00027250	0	0.00006713	0.00032976
31 OTH CHEMICAL	0.00012494	0	0	0	0	0.00002953	0.00001865	0.01427383
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00024988	0	0.00080906	0.00015119	0	0.00000591	0.00003729	0.00070663
34 PLASTIC PROD	0	0	0	0	0	0	0	0.00031406
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.02098951	0	0	0.00017343	0	0	0.00025733	0.03325848
37 PRIMARY MET	0	0	0	0.00008004	0	0	0.00020139	0.00043968
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0.00001119	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.00005082	0	0	0	0	0	0.00018843
46 FM,CN,ID MA	0	0	0	0	0	0	0.00001492	0.00029835
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0.00031406
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0.04697651	0	0	0	0	0	0.00001119	0.00004711
51 OTH MAC&EQUP	0	0	0	0.00007115	0	0.00001181	0.00000746	0.00007851
52 ELEC INS	0.01111944	0.00005082	0	0.00050694	0	0	0.00098457	0.00135044
53 ELEC COM	0.00362319	0	0	0.00023124	0.00433908	0	0.00003356	0
54 OTH ELEC APP	0.00012494	0.00055900	0.00048544	0.00008894	0.00008385	0.00001772	0.00000746	0.00006281
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.00012494	0	0.00382956	0.00002668	0.00440196	0.00003543	0.00008205	0

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF,SC&CONT	0.01074463	0	0	0.00000445	0	0	0	0.00004711
60	OTH MFG	0	0.00020327	0.00032362	0.00003558	0.00215906	0.00007086	0.00000746	0.00023554
61	RAIL TRANS	0.00087456	0.00045736	0.00463862	0.00026681	0.00014673	0.00007086	0.00250618	0.00043968
62	INTERCITY TR	0	0	0	0	0	0	0	0
63	MOTOR TRANS	0.00037481	0.00096555	0.00070119	0.00092940	0.00012577	0.00135816	0.00223766	0.00023554
64	AIR TRANS	0	0	0.00010787	0.00075152	0.00603698	0.00007086	0.00011934	0.00007851
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0	0	0.00069174	0.00047831	0.00029835	0
68	TELEP&TELEG	0.00062469	0.00736864	0.01289105	0.00222344	0.01161280	0.00454097	0.00287167	0.00249674
69	TV,RAD,COMM	0	0	0	0	0	0.00102157	0.00206611	0
70	GAS SERVICE	0.01149425	0.00213436	0.00188781	0.00112061	0.00096424	0.00265136	0.14403085	0.00124052
71	ELEC SERV	0.02111444	0.00874073	0.04412082	0.00580317	0.00689641	0.00065546	0	0.06279541
72	WT&SAN SER	0	0.00147373	0.00080906	0.00108504	0.00025154	0.00046059	0.00241295	0.08297348
73	WHL AUTO PTS	0	0.03801199	0.00987055	0.00032462	0.00033539	0.00059641	0.00044753	0.00021984
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00137431	0.00071145	0.00032362	0.00439796	0.00098520	0.00133454	0.00082793	0.01215395
77	WHL PETROLEM	0.00024988	0.05285090	0.00426106	0.00012896	0.00031443	0.00034249	0.00046991	0.00152317
78	GEN WHL	0.00099950	0.00619982	0.00086300	0.00425121	0.00486312	0.00447011	0.00981961	0.00296783
79	BLD MAT	0	0	0	0	0	0.00001772	0.00022377	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.00037481	0.00508182	0.00970874	0.00053807	0.00027250	0.00430477	0.01039021	0.00177441
83	GAS SER STA	0	0	0	0.00018232	0.00031443	0.00135816	0.00060417	0
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.00004447	0.00146732	0	0	0
87	OTH RETAIL	0	0	0	0.00004002	0.00008385	0.00005315	0.00004102	0.00001570
88	BK&CREDIT	0.00049975	0.01524545	0.05010787	0.00363754	0.00635140	0.00404495	0.00391218	0.00175871
89	INSURANCE	0.00049975	0.02952536	0.01866235	0.00028905	0.00148828	0.00096252	0.00118223	0.00423975
90	F.I.R.E	0.00937031	0.00193109	0.12135922	0.01029896	0.00907643	0.00684984	0.00397931	0
91	LEGAL SER	0.00062469	0.01255209	0.00560949	0.00039133	0.00465350	0.00148807	0.00200644	0.00028265
92	LODGE SER	0	0	0	0.00021790	0	0	0	0
93	PERSNL SER	0	0	0	0.00020900	0	0	0	0
94	ADV,DUP&AD	0	0.01758309	0.00075512	0.00583430	0.04144133	0.00202543	0.00077572	0
95	PHOTO&REC	0	0	0	0	0.00234771	0	0	0
96	OTH BUS SE	0.00074963	0.00055900	0.02578209	0.00072929	0.01530206	0.00193095	0.00051839	0.00028265
97	AUTO RENT,PK	0	0.01026527	0	0	0	0.00004724	0.00002984	0
98	REPAIR SER	0	0.00015245	0.00053937	0.00016898	0.00150924	0.00352531	0.00111883	0.00153887
99	PHYS&DEN	0	0	0	0.00003113	0	0	0	0
100	HOS&LAB SER	0.00162419	0.00020327	0.00124056	0.00247246	0.00056597	0.00206086	0.00340498	0
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.01461769	0.00198191	0.01175836	0.02298590	0.00534524	0.01917955	0.03166665	0
103	COLL & UNIV	0.00124938	0.00015245	0.00080906	0.00206335	0.00033539	0.00142311	0.00223393	0
104	OTH ED SER	0.00012494	0	0.00010787	0.00045803	0.00004192	0.00027754	0.00027225	0
105	ENG & ARC	0	0	0	0	0.00075462	0	0	0
106	ACCT,ACD,&BK	0	0.00370973	0.01796117	0.00013785	0.00276695	0.00293480	0.00097338	0.00125622
107	OTH PROF SER	0	0	0	0	0	0.00096843	0	0
108	OTH SER	0	0	0.00199569	0.00005781	0.00213810	0.00051374	0.00025733	0
109	HOUSEHOLDS	0.20402299	0.69356642	0.45722762	0.53773396	0.41766235	0.23581168	0.19216296	0.43419751
110	GROSS SAVING	0.39280360	0.03709727	0.07265372	0.06239856	0.10074205	0.18485122	0.34395850	0.27716973
111	FED. GOVT.	0.12293853	0.00838500	0.05048544	0.17851537	0.14124010	0.07600371	0.15710626	0.00741171
112	STATE GOVT.	0.01499250	0.00060982	0.00728155	0.02577409	0.00257829	0.01591407	0.02098181	0
113	LOCAL GOVT.	0.01436782	0.00193109	0.01170442	0.02278579	0.00530332	0.01900831	0.03138321	0
114	IMPORTS	0.02898551	0.03882508	0.02648328	0.09531877	0.17041882	0.23656162	0.01742766	0
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	73	74	75	76	77	78	79	80
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0.00008685	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0.00008685	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00256322	0.00035194	0.00214220	0.00015912	0.00035555	0.00006571	0.00104344	0.00017213
17 MEAT PROD	0.00000767	0	0	0	0.00002540	0.00000641	0	0
18 DAIRY PROD	0	0	0	0	0	0	0	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0	0	0	0	0	0	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0	0	0.00001122	0.00001739	0
24 LUM&WOOD PR	0.00001535	0.00000782	0.00156322	0.00000783	0	0.00000481	0	0
25 FURN & FIX	0.00001535	0.00000782	0.00002895	0.00001043	0	0.00000481	0	0
26 PAPER EX BOX	0.00003837	0.00652256	0.01210051	0.00002609	0.00001270	0.00005610	0.00001739	0
27 BOXS&CONTAIN	0	0.00509917	0.01823761	0	0	0.00225663	0	0.01438412
28 NEWSPAPERS	0.00823453	0	0	0.00001304	0.00001270	0.00088470	0.00726931	0.04205697
29 PUB&PRINTING	0.01455048	0.00106363	0.00014474	0.00044606	0.01295222	0.00436742	0.00316511	0.01034993
30 DRUGS, SPS&CL	0	0.00007821	0.00008685	0	0	0	0	0
31 OTH CHEMICAL	0	0	0.00049213	0	0.00407614	0.00000481	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00000767	0	0	0.00000261	0	0.00000481	0	0
34 PLASTIC PROD	0	0	0.00005790	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0	0	0	0	0	0	0	0
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PRDD	0	0	0	0	0	0	0	0
43 PLU, HEAT&REF	0	0	0	0	0	0	0	0
44 ELECTROPLAT	0	0	0	0	0	0.00001122	0	0
45 OTH FAB MET	0.00001535	0.00007039	0.00002895	0.00001043	0.00001270	0.00000641	0.00001739	0
46 FM, CN, ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRD MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.00002302	0.00000782	0.00002895	0.00001304	0.00001270	0.00000801	0.00001739	0
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0.00005475	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.01044078	0.00017369	0.00031824	0.00010159	0.00015546	0.00114779	0.00009076

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0	0	0	0
60	OTH MFG	0.00026093	0.00011731	0.00008685	0.00002087	0.00016508	0.00002244	0.00031303	0.00017213
61	RAIL TRANS	0.00108975	0.00104799	0.00043423	0.00027390	0.00092697	0.00073084	0.00050433	0.00010328
62	INTERCITY TR	0	0	0	0	0	0.00053050	0	0
63	MOTOR TRANS	0.00741338	0.00128261	0.01542960	0.00259029	0.00647611	0.00418471	0.00118257	0.00013458
64	AIR TRANS	0.00044511	0.00020334	0.00112899	0.00012260	0.00003809	0.00011219	0.00013913	0.00006572
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0	0	0.00712135	0	0	0.00320384	0.00137387	0
68	TELEP&TELEG	0.01293120	0.00628793	0.00761348	0.01902936	0.00934591	0.01085845	0.00819102	0.00548011
69	TV,RAD,COMM	0.00673804	0	0.00008685	0.00037302	0	0.00005610	0.00180863	0.00776167
70	GAS SERVICE	0.00092859	0.00119658	0.00358962	0.00071474	0.00113014	0.00168446	0.00179124	0.00381511
71	ELEC SERV	0.00515713	0.00814146	0.01994558	0.00433802	0.00464756	0.00795912	0.01144308	0.01213386
72	WT&SAN SER	0.00124324	0.00107927	0.00720820	0.00124167	0.00027936	0.00072283	0.00193037	0.00073235
73	WHL AUTO PTS	0.00224090	0.00276857	0.00031843	0.00017216	0.00020317	0.00005930	0.00015652	0.00002191
74	WHL GRO	0	0	0	0	0	0	0	0
75	WHL FM PROD	0	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00009209	0.00007821	0.00014474	0.00004956	0.00007619	0.00000481	0.00020869	0.00002191
77	WHL PETROLEM	0.00033767	0.00084465	0.00130269	0.00021390	0.00027936	0.00031253	0.00039999	0.00003443
78	GEN WHL	0.00254019	0.00224457	0.00078161	0.00162513	0.00212061	0.00100491	0.00097388	0.00010015
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0	0	0
82	AUTO DL&REP	0.00009209	0.01244291	0.00167902	0.00041998	0.00267933	0.00051768	0.00326945	0.00137081
83	GAS SER STA	0.00104371	0.00477851	0.00075266	0.00104342	0.00102856	0.00250986	0.00172168	0.00057587
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0.00019953	0.00036758	0.00034738	0.00068605	0.00019047	0.00038946	0	0
87	OTH RETAIL	0.00003070	0.00010167	0.00020264	0.00003913	0	0.00003526	0.00020869	0.00004695
88	BK&CREDIT	0.02397452	0.00276075	0.09749884	0.00953424	0.00542215	0.01315836	0.02154708	0.00597461
89	INSURANCE	0.00909405	0.00441094	0.01525591	0.00574924	0.00657769	0.01283781	0.00161734	0.00313596
90	F.I.R.E	0.00978474	0.00341769	0.01071098	0.01891980	0.01974578	0.01133606	0.00493896	0.02993249
91	LEGAL SER	0.01683742	0.00026591	0.00046318	0.00178686	0.00040634	0.00106741	0.00212167	0.00077617
92	LDGE SER	0.00390622	0.00068041	0.00037633	0.00103038	0.00035555	0.00025002	0	0
93	PERSNL SER	0	0	0	0	0	0	0	0
94	ADV,DUP&AD	0.00178044	0.00305012	0.00781612	0.00635703	0.02878694	0.00358048	0.00220862	0.00886019
95	PHOTO&REC	0	0	0	0	0	0.00088951	0	0
96	OTH BUS SE	0.00155021	0.00196302	0.01916396	0.00104342	0.00206981	0.00406290	0.00356509	0.00502318
97	AUTO RENT,PK	0	0.01088884	0.00295276	0.00064692	0	0.00364299	0.00010434	0
98	REPAIR SER	0.00107440	0.00319871	0.01574803	0.00438236	0.02893932	0.00092958	0.00066085	0.00014084
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00030697	0.00020334	0.00165007	0.00028694	0.00111745	0.00045357	0.00206949	0.00167439
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00282414	0.00189264	0.01534275	0.00266333	0.01033638	0.00420555	0.01925150	0.01557967
103	COLL & UNIV	0.00055255	0.00036758	0.00295276	0.00030520	0.00062221	0.00048883	0.00119996	0.00095456
104	OTH ED SER	0.00002302	0.00001564	0.00014474	0.00002348	0.00008889	0.00003686	0.00017391	0.00013458
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT,ACD,&BK	0.00538736	0.00053182	0.00295276	0.00522492	0.00144760	0.00335129	0.00382595	0.00439098
107	OTH PROF SER	0	0	0	0	0	0	0	0.00179645
108	OTH SER	0	0.00002346	0.00028949	0.00188598	0.00162538	0.00031253	0.00055650	0.00039121
109	HOUSEHOLDS	0.42822608	0.55106989	0.30905512	0.44706864	0.14098869	0.47636143	0.62135230	0.53593996
110	GROSS SAVING	0.19800468	0.12962210	0.19328972	0.12174877	0.17999771	0.09916049	0.11606553	0.08519055
111	FED. GOVT.	0.11381758	0.04825440	0.04889416	0.09859008	0.08900204	0.06555619	0.07192793	0.07172030
112	STATE GOVT.	0.00193392	0.00590471	0.02191408	0.00455192	0.00415233	0.00655995	0.00871274	0.00685718
113	LOCAL GOVT.	0.00280112	0.00187699	0.01522696	0.00263985	0.01024749	0.00416868	0.01907760	0.01544196
114	IMPORTS	0.10986532	0.16371301	0.11486799	0.23159995	0.42092164	0.24484163	0.05071128	0.10646002
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	81	82	83	84	85	86	87	88
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0.00432990	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00367096	0.00269779	0.01369804	0.00236517	0.00031272	0.00014541	0.00152105	0.00521034
17 MEAT PROD	0	0	0	0	0	0.09270186	0	0
18 DAIRY PROD	0	0	0	0	0	0.04149918	0	0
19 GRN MILLPRD	0	0	0	0	0	0.04590017	0	0
20 BAKERY PROD	0	0	0	0	0	0.00689876	0	0
21 OTHFOODPROD	0.00002683	0.00005250	0.00001445	0.00001329	0.00001564	0.01203324	0.00001422	0.00014679
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0.00005813	0.00026655	0.00002890	0.00001329	0.00003127	0.00007755	0.00001895	0.00002531
24 LUM&WOOD PR	0.00002236	0.00000404	0.00001445	0.00001329	0.00001564	0.00000969	0.00001422	0.00000337
25 FURN & FIX	0.00003130	0.00000808	0.00001445	0.00001329	0.00001564	0.00003878	0.00001895	0.00002700
26 PAPER EX BOX	0.00008048	0.00001615	0.00001445	0.00107628	0.00003127	0.00010340	0.00060178	0.00138357
27 BOXS&CONTAIN	0.00938980	0	0	0	0	0	0	0
28 NEWSPAPERS	0.01886008	0.01475708	0.00247085	0.02802323	0.07178485	0.00140237	0.02960590	0.00104106
29 PUB&PRINTING	0.00392583	0.00157910	0.00122820	0.00049164	0.00650457	0.00037806	0.00318425	0.00989930
30 DRUGS,SPS&CL	0.00004471	0.00050483	0	0	0	0	0	0
31 OTH CHEMICAL	0.00000447	0	0	0	0	0	0	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00000447	0	0	0	0	0.00000646	0.00000474	0.00000337
34 PLASTIC PROD	0	0	0	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0	0	0
37 PRIMARY MET	0	0	0	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0.00000894	0	0	0	0	0	0.00000948	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0.00024145	0.00000808	0.00001445	0.00001329	0.00001564	0.00004524	0.00001895	0
46 FM,CN, ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.00003577	0.00000808	0.00001445	0.00001329	0.00001564	0.00004847	0.00002369	0.00001687
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0.00003231	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0	0.00062598	0	0.00001329	0.00064108	0.00003231	0.00100455	0

58	OTH TRAN EQ	0	0	0	0	0	0	0	0
59	PROF, SC&CONT	0	0	0	0	0	0	0	0
60	OTH MFG	0.00030405	0.00032309	0.00213851	0.00124902	0.00145415	0.00075289	0.00189538	0.00067491
61	RAIL TRANS	0.00134587	0.00017366	0.00011560	0.00023917	0.00062544	0.00314726	0.00044068	0.00007930
62	INTERCITY TR	0	0.00006866	0	0	0	0	0	0
63	MOTOR TRANS	0.00099711	0.00025039	0.00104036	0.00082382	0.00136033	0.00035221	0.00128886	0.00019573
64	AIR TRANS	0.00000894	0.00007673	0	0.00007972	0.00023454	0	0.00002843	0.00004724
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00384535	0.00014135	0	0.00038534	0	0.00008724	0.00409877	0.00004218
68	TELEP&TELEG	0.00269174	0.01143734	0.00247085	0.00603250	0.01086702	0.00061071	0.01257587	0.00701742
69	TV,RAD,COMM	0.00591110	0.01475304	0.00957996	0.01573234	0.01860683	0.00357378	0.00227920	0.00053318
70	GAS SERVICE	0.00485140	0.00144986	0.00741254	0.00609894	0.00309593	0.01179413	0.00734461	0.00215298
71	ELEC SERV	0.03615519	0.00277856	0.03122517	0.02925896	0.01837229	0.01823728	0.02618000	0.00314341
72	WT&SAN SER	0.00063940	0.00215662	0.00988339	0.00146162	0.00292393	0.00426851	0.00374338	0.00077615
73	WHL AUTO PTS	0.00014755	0.00159121	0.00075137	0.00014616	0.00014072	0.00001616	0.00005212	0.00002531
74	WHL GRO	0	0	0	0	0	0.01137083	0	0
75	WHL FM PROD	0.00116255	0	0	0	0	0	0	0
76	WHL MACH&EQP	0.00008048	0.00015751	0.00013004	0.00009301	0.00014072	0.00014541	0.00009003	0.00040664
77	WHL PETROLEM	0.00022357	0.00027866	0.00102591	0.00003986	0.00100070	0.00000969	0.00019428	0.00003037
78	GEN WHL	0.00505708	0.00102581	0.00193622	0.00151477	0.00167305	0.01163903	0.00301366	0.01229525
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0	0	0	0	0.00012279	0	0
82	AUTO DL&REP	0.00025039	0.00138524	0.00017339	0.00021260	0.00709874	0.00004524	0.00133625	0.00001856
83	GAS SER STA	0.00004024	0.00030693	0.00046238	0.00013287	0.00211086	0.00011956	0.00062074	0.00172103
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0	0	0	0	0
87	OTH RETAIL	0.00004024	0.00001615	0.00007225	0.00003986	0.00014072	0.00004201	0.00008055	0.00001350
88	BK&CREDIT	0.00736876	0.03784177	0.00494170	0.03707198	0.01391603	0.00214879	0.02082080	0.02376035
89	INSURANCE	0.00573672	0.01317798	0.01833630	0.00247147	0.01635525	0.00589706	0.00665280	0.00318222
90	F.I.R.E	0.01214414	0.02402972	0.05077521	0.02511328	0.06895473	0.00443653	0.04923261	0.00906916
91	LEGAL SER	0.00021462	0.00172045	0.00018784	0.00318899	0.00419045	0.00061394	0.00363914	0.00386557
92	LODGE SER	0	0	0	0	0	0	0	0
93	PERSNL SER	0.00235192	0.00311781	0	0.00574018	0.00268939	0.00346392	0	0
94	ADV,DUPE&AD	0.00190479	0.00557732	0.00112705	0.00256448	0.00311156	0.00063979	0.00465317	0.01676993
95	PHOTO&REC	0	0	0	0	0	0	0	0.00119291
96	OTH BUS SE	0.02000474	0.00188199	0.01564871	0.00200640	0.00140724	0.01124158	0.00377655	0.03542118
97	AUTO RENT,PK	0	0	0	0	0	0	0.00635428	0
98	REPAIR SER	0.01353025	0.00404265	0.00040458	0.00035876	0.00068798	0.00087890	0.00354911	0.00008268
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00024592	0.00034732	0.00088141	0.00023917	0.00053162	0.00010663	0.00066812	0.00059561
101	OTH MED SER	0	0	0	0	0	0	0	0
102	ELE&SECD SCH	0.00230721	0.00322685	0.00816391	0.00223229	0.00497225	0.00098554	0.00621686	0.00554104
103	COLL & UNIV	0.00030405	0.00038367	0.00105481	0.00022589	0.00035963	0.00018095	0.00046437	0.00036614
104	OTH ED SER	0.00001789	0.00002827	0.00007225	0.00001329	0.00004691	0.00000969	0.00005212	0.00004724
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT,ACD,&BK	0.00688138	0.00404265	0.00741254	0.00346802	0.00917833	0.00095646	0.00354911	0.01327725
107	OTH PROF SER	0	0	0	0.00014616	0	0	0	0.00010967
108	OTH SER	0.00055892	0.00004846	0.00125710	0.00184696	0.00050035	0.00032313	0.00106615	0.00561866
109	HOUSEHOLDS	0.43408139	0.61800008	0.58414611	0.69037590	0.44514111	0.36198930	0.50655092	0.32731647
110	GROSS SAVING	0.07792638	0.07286862	0.12992905	0.05635206	0.09591119	0.02835438	0.13885585	0.27719566
111	FED. GOVT.	0.01912836	0.05462623	0.05382404	0.04188203	0.11156282	0.02711034	0.06374651	0.05119561
112	STATE GOVT.	0.00489611	0.00590041	0.01683356	0.00308269	0.00331483	0.00337344	0.00472898	0.00307761
113	LOCAL GOVT.	0.00228932	0.00320262	0.00807722	0.00221900	0.00492534	0.00097261	0.00616948	0.00549211
114	IMPORTS	0.28794931	0.08700376	0.01099600	0.02381111	0.06301306	0.27433145	0.06794953	0.16989276
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	89	90	91	92	93	94	95	96
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0.00002217
3 OTHER GRAINS	0	0	0	0	0	0	0	0.00002772
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00103977	0.04740923	0.00057574	0.02820752	0.00268025	0.00015760	0.00881786	0.00002217
17 MEAT PROD	0	0	0	0.00432989	0	0	0.00580888	0.00000554
18 DAIRY PROD	0	0	0	0.01136474	0	0	0.00014545	0
19 GRN MILLPRD	0	0	0	0	0	0	0	0
20 BAKERY PROD	0	0	0	0	0	0	0	0
21 OTHFOODPROD	0	0.00166341	0.00016851	0.01507191	0.00000486	0.00017730	0	0.00001663
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0.00145951	0	0	0	0.00005543
24 LUM&WOOD PR	0.00000488	0.00000403	0.00001404	0	0.00000486	0.00001970	0.00003636	0.00002217
25 FURN & FIX	0.00001828	0.00000604	0.00001404	0	0.00000971	0.00006895	0.00004545	0.00003880
26 PAPER EX BOX	0.00096297	0.00128481	0.00002808	0.00142059	0.00027676	0.01329722	0.00012727	0.00009424
27 BOXS&CONTAIN	0	0	0	0	0	0	0	0.00000554
28 NEWSPAPERS	0	0.00568903	0	0.00422286	0.01361489	0	0.01405403	0.01635873
29 PUB&PRINTING	0.01688009	0.01357513	0.00035106	0.00116761	0.00021850	0.02968727	0.00110905	0.01597623
30 DRUGS,SPS&CL	0	0	0	0.00498180	0.00076717	0	0	0.00134706
31 OTH CHEMICAL	0	0	0	0.00285092	0.00076717	0.00687515	0	0.00010533
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0.00000366	0	0	0.00011676	0	0	0	0
34 PLASTIC PROD	0	0	0	0.00005838	0.00003399	0	0.00009091	0.00002217
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0.00000973	0	0	0	0.00005543
37 PRIMARY MET	0	0	0	0	0	0	0	0.00003326
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0	0.00004989
44 ELECTROPLAT	0	0	0	0	0	0	0	0.00001109
45 OTH FAB MET	0	0	0	0	0.00013595	0	0	0.00007761
46 FM,CN,ID MA	0	0	0	0	0	0	0	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0	0
52 ELEC INS	0.00002316	0.00000806	0	0.00012649	0.00000971	0	0.00002727	0.00001109
53 ELEC COM	0	0	0	0	0	0	0	0
54 OTH ELEC APP	0	0	0	0	0	0	0	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTDR VECH	0	0	0	0.00008757	0.00056810	0.00015760	0.00001818	0.00026054

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL , TEXAS, 1967

	97	98	99	100	101	102	103	104
1 COTTON	0	0	0	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0	0	0	0
4 RANGE LVSTK.	0	0	0	0	0	0	0	0
5 FEED LVSTK.	0	0	0	0	0	0	0	0
6 DAIRY	0	0	0	0	0	0	0	0
7 POULTRY&EGGS	0	0	0	0	0	0	0	0
8 AGSUP EXFAMA	0	0	0	0	0	0	0	0
9 AG SERVICES	0	0	0	0	0	0	0	0
10 PET&NAT GAS	0	0	0	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0	0	0	0
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0	0	0	0
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0	0	0	0	0	0	0	0
16 MAINT&REPAIR	0.00008167	0.00674873	0.00120153	0.00109514	0.00328606	0.00584121	0	0
17 MEAT PROD	0	0	0	0.00175907	0.00522225	0.01619869	0	0
18 DAIRY PROD	0	0	0	0.00015058	0.00044996	0.02025951	0.00001097	0
19 GRN MILLPRD	0	0	0	0.00000684	0	0	0.00050441	0
20 BAKERY PROD	0	0	0	0.00026694	0	0.00993070	0	0
21 OTHFOODPROD	0	0.00001305	0.00004983	0.00069815	0.00039542	0.01787079	0.00027414	0
22 TEXTILE MILL	0	0	0	0	0	0	0	0
23 FAB TEX MILL	0	0	0	0.00486653	0	0	0.00021931	0
24 LUM&WOOD PR	0	0	0.00001107	0.00002053	0.00001364	0.00012103	0.00049345	0
25 FURN & FIX	0.00001633	0.00001305	0.00005537	0.00002738	0.00001364	0.00007007	0.02154723	0
26 PAPER EX BOX	0.00001633	0.00002611	0.00014950	0.00070500	0.00002727	0.00218488	0.00448490	0
27 BOXS&CONTAIN	0	0	0	0.00006160	0	0	0.00002193	0
28 NEWSPAPERS	0.00145370	0	0	0	0	0	0	0.00013582
29 PUB&PRINTING	0.00168237	0.01074314	0.00139533	0.00130048	0.00119989	0.00074209	0.00260979	0.00002264
30 DRUGS,SPS&CL	0	0	0.00043189	0.01537303	0.00274066	0.00007007	0.00103076	0
31 OTH CHEMICAL	0	0	0	0.00095140	0	0.00014969	0.00175448	0
32 PET REF	0	0	0	0	0	0	0	0
33 RUBBER PROD	0	0	0.00001107	0.00029432	0.00013635	0	0.00006579	0
34 PLASTIC PROD	0	0	0	0	0	0	0	0
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0	0	0	0	0	0.00008599	0.00046055	0
37 PRIMARY MET	0	0	0	0	0	0	0.00139262	0
38 FAB STEEL	0	0	0	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0	0	0	0
43 PLU,HEAT&REF	0	0	0	0	0	0	0.00198476	0
44 ELECTROPLAT	0	0	0	0	0	0	0	0
45 OTH FAB MET	0	0.00001305	0	0.00013005	0.00008181	0	0	0
46 FM,CN,ID MA	0	0	0	0	0	0	0.00017545	0
47 MIN MACH	0	0	0	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0	0	0.00051538	0
49 IND PRO MACH	0	0	0	0	0	0	0.00134876	0
50 ENG&GEN MACH	0	0	0	0	0	0	0.00039476	0
51 OTH MAC&EQUP	0	0	0	0	0	0	0.00105269	0
52 ELEC INS	0	0.00001305	0	0.00003422	0.00001364	0.00000637	0.00160096	0
53 ELEC COM	0	0	0	0	0	0	0.00001097	0.00002264
54 OTH ELEC APP	0	0	0	0.00010951	0	0	0.00005483	0
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0	0	0	0	0	0	0	0
57 MOTOR VECH	0.07392647	0.01713943	0	0.00003422	0.00008181	0	0.00004386	0

58	OTH TRAN EQ	0	0	0	0	0	0	0.00013159	0
59	PROF, SC&CONT	0	0	0.00013843	0.01521561	0.00024543	0	0.00343221	0
60	OTH MFG	0.00047368	0.00030023	0.00012181	0.00001369	0.00004091	0.00000318	0.00031800	0.00018109
61	RAIL TRANS	0.00047368	0.00261073	0.00105203	0.00053388	0.00062722	0.00013695	0.00093207	0.00027163
62	INTERCITY TR	0	0	0	0	0	0.00008918	0	0
63	MOTOR TRANS	0.00040834	0.00960748	0.00050387	0.00247091	0.00073630	0.00009873	0.00029607	0.00065645
64	AIR TRANS	0.00009800	0.00009138	0.00004430	0.00008898	0.00001364	0.00034398	0.00281814	0.00029427
65	PIPE TRANS	0	0	0	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WAREHOUS TR	0	0	0	0	0.00054540	0.00005733	0	0
68	TELEP&TELEG	0.00148637	0.00402052	0.00276297	0.00282683	0.00557677	0.00164025	0.02017654	0.00045272
69	TV, RAD, COMM	0.00243373	0	0	0	0	0	0.00233565	0
70	GAS SERVICE	0.00050635	0.00189278	0.00321146	0.00633812	0.00454050	0.00412133	0.00445200	0.00083754
71	ELEC SERV	0.00805253	0.01352357	0.00588030	0.01738535	0.00910826	0.01094033	0.01971599	0.00525160
72	WT&SAN SER	0.00045734	0.00156644	0.00143962	0.00349760	0.00339515	0.00144916	0.00651351	0.00031691
73	WHL AUTO PTS	0.00014700	0.00030023	0.00004430	0.00004107	0.00010908	0.00013695	0.00038379	0.00013582
74	WHL GRO	0	0	0	0.00849418	0.00496319	0.00749739	0	0.00029427
75	WHL FM PROD	0	0	0	0.00000684	0	0	0	0
76	WHL MACH&EQP	0.00008167	0.01014268	0.00817262	0.02104723	0.00784020	0.00717889	0.00372827	0.00020373
77	WHL PETROLEM	0.00158437	0.00125315	0.00007198	0.00007529	0.00010908	0.00025480	0.00054828	0.00029427
78	GEN WHL	0.00133937	0.00125315	0.00965100	0.00414784	0.00215435	0.01267931	0.02550578	0.00038482
79	BLD MAT	0	0	0	0	0	0	0	0
80	RTL TRD-GEN	0	0	0	0	0	0	0	0
81	FOOD STORES	0	0.00002611	0	0	0	0	0	0
82	AUTO DL&REP	0.02742433	0.02275249	0.00012735	0.00004791	0.00010908	0.00004777	0.00013159	0.00004527
83	GAS SER STA	0	0.00019580	0.00019380	0	0.00028634	0.00013058	0.00042766	0.00013582
84	APP&ACCESS	0	0	0	0	0	0	0	0
85	FURNITURE	0	0	0	0	0	0	0	0
86	EAT&DRINK	0	0	0	0.00002053	0.00005454	0	0	0
87	OTH RETAIL	0	0.00003916	0.00002769	0	0.00002727	0.00022932	0.00018641	0.00006791
88	BK&CREDIT	0.00027767	0.00591330	0.00600212	0.01422313	0.00130897	0.00020702	0.00088821	0.00043009
89	INSURANCE	0.01417768	0.00378555	0.00745281	0.00277207	0.00531770	0.00345568	0.00341027	0.00067909
90	F.I.R.E	0.06099015	0.02678606	0.00740851	0	0.01559858	0.00015606	0.07136356	0.00086018
91	LEGAL SER	0.00104536	0.00104429	0.00348278	0.00113621	0.00130897	0.00002229	0.00328965	0.00056591
92	LODGE SER	0	0	0	0.00001369	0.00010908	0	0	0
93	PERSNL SER	0	0	0	0.00023272	0.00394055	0.00028028	0.00110752	0
94	ADV, DUPEAD	0.00145370	0.00254546	0.00006644	0.00028063	0.00023180	0	0.00516476	0.00011318
95	PHOTO&REC	0	0	0	0	0	0	0.00138165	0.00002264
96	OTH BUS SE	0.00035934	0.00110956	0.00575849	0.00566735	0.00238615	0.00051915	0.01529689	0.00072436
97	AUTO RENT, PK	0	0	0	0	0.00230434	0	0.00506607	0
98	REPAIR SER	0.00017967	0.00046993	0.00009413	0.00021218	0.00130897	0.00009873	0.00046055	0.00013582
99	PHYS&DEN	0	0	0	0	0	0	0	0
100	HOS&LAB SER	0.00045734	0.00024802	0.01262438	0.00183436	0.00009545	0	0.00004386	0.00029427
101	OTH MED SER	0	0	0.03461737	0	0	0	0	0
102	ELE&SECD SCH	0.00429577	0.00229744	0.00582493	0.00021903	0.00085901	0.00013058	0.00040572	0.00276162
103	COLL & UNIV	0.00153537	0.00022191	0.00134549	0.00002738	0.00050450	0	0.00002193	0.00070172
104	OTH ED SER	0.00003267	0.00002611	0.00004983	0	0.00001364	0	0	0.00002264
105	ENG & ARC	0	0	0	0	0	0	0	0
106	ACCT, ACD, &BK	0.00233572	0.00390304	0.00204316	0.00034908	0.01006272	0.00040130	0	0.00029427
107	OTH PROF SER	0	0	0	0	0	0	0.00212731	0
108	OTH SER	0.00102903	0.00297623	0.01425779	0.00060917	0.00437687	0	0.00129393	0
109	HOUSEHOLDS	0.25052676	0.48387223	0.54496326	0.65616016	0.67971094	0.78163618	0.70080597	0.72334020
110	GROSS SAVING	0.23050161	0.03562338	0.13088930	0.07105407	0.04946823	0.07640711	0.03049509	0.00771895
111	FED. GOVT.	0.01522304	0.01758325	0.04905788	0.01585900	0.03745569	0.00248108	0.00991282	0.01781470
112	STATE GOVT.	0.03268380	0.00295012	0.02633954	0.00044490	0.01122171	0	0	0.01439663
113	LOCAL GOVT.	0.00426310	0.00227133	0.00578063	0.00021903	0.00083174	0	0.00039476	0.00273898
114	IMPORTS	0.25648857	0.30208728	0.10519205	0.11854894	0.11743932	0.01363799	0.01298317	0.21637956
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

DIRECT INPUT REQUIREMENTS : NORTH CENTRAL ,TEXAS, 1967

	105	106	107	108	HOUSEHOLDS
1 COTTON	0	0	0	0	0
2 CASH GRAINS	0	0	0	0	0
3 OTHER GRAINS	0	0	0	0	0.00058332
4 RANGE LVSTK.	0	0	0	0	0.00017461
5 FEED LVSTK.	0	0	0	0	0.00016370
6 DAIRY	0	0	0	0	0.00000764
7 POULTRY&EGGS	0	0	0	0	0.00120330
8 AGSUP EXFAMA	0	0	0	0	0.00032740
9 AG SERVICES	0	0	0	0	0.00087056
10 PET&NAT GAS	0	0	0	0	0
11 OILFIELD SER	0	0	0	0	0
12 RES CONS	0	0	0	0	0
13 COMM&ED CONS	0	0	0	0	0
14 IND CONS	0	0	0	0	0
15 FAC CONS	0	0	0	0	0
16 MAINT&REPAIR	0.00185623	0	0.00176561	0.01036772	0.01098066
17 MEAT PROD	0	0	0	0.00002086	0.00955418
18 DAIRY PROD	0	0	0	0	0.00988649
19 GRN MILLPRD	0	0	0	0	0.00130993
20 BAKERY PROD	0	0	0	0	0.00929128
21 OTHFOODPROD	0	0	0.00003153	0.00004172	0.02183942
22 TEXTILE MILL	0	0	0	0	0.00000960
23 FAB TEX MILL	0	0	0	0	0.00665898
24 LUM&WOOD PR	0	0	0	0	0.00062763
25 FURN & FIX	0	0	0	0.00001043	0.00054796
26 PAPER EX BOX	0	0.00008876	0.00006306	0.00034942	0.00023846
27 BOXS&CONTAIN	0	0	0	0	0
28 NEWSPAPERS	0	0.00020921	0	0	0.00223308
29 PUB&PRINTING	0.00064841	0.00149619	0.02752467	0.01916046	0.00010084
30 DRUGS,SPS&CL	0	0	0	0.00003651	0.00225840
31 OTH CHEMICAL	0	0	0	0.00015645	0.00020364
32 PET REF	0	0	0	0	0.00073479
33 RUBBER PROD	0	0	0	0	0.00048161
34 PLASTIC PROD	0	0	0	0	0.00075029
35 LEATHER PROD	0	0	0	0	0.00029291
36 GLS,ST,CL&CN	0	0	0	0.00001043	0.00033962
37 PRIMARY MET	0	0	0	0	0
38 FAB STEEL	0	0	0	0	0
39 PLATE WORK	0	0	0	0	0
40 SH METAL&ARC	0	0	0	0	0
41 METAL DOORS	0	0	0	0	0
42 FAB MET PROD	0	0	0	0	0
43 PLU,HEAT&REF	0.00092812	0	0	0	0.00048455
44 ELECTROPLAT	0	0	0	0	0
45 OTH FAB MET	0.00026699	0	0	0	0
46 FM,CN,ID MA	0	0	0	0	0
47 MIN MACH	0	0	0	0	0
48 MET WK MACH	0	0	0	0	0
49 IND PRO MACH	0	0	0	0	0
50 ENG&GEN MACH	0	0	0	0	0
51 OTH MAC&EQUP	0	0	0	0	0
52 ELEC INS	0.02602538	0	0	0	0.00007923
53 ELEC COM	0	0	0	0	0
54 OTH ELEC APP	0	0	0	0.00002608	0.00026923
55 AIRCRAFT&ORD	0	0	0	0	0.00001473
56 AIRCRAFT PAR	0	0	0	0	0.00001157
57 MOTOR VECH	0	0	0.00028376	0	0.00578483

58	OTH TRAN EQ	0	0	0	0	0.00220547
59	PROF, SC&CONT	0.00033056	0	0	0.00008866	0.00070402
60	OTH MFG	0.00003814	0.00015849	0.00151338	0.00038071	0.00074211
61	RAIL TRANS	0.00020342	0.00011412	0.00040987	0.00055281	0.00148596
62	INTERCITY TR	0	0	0	0	0.00108358
63	MOTOR TRANS	0.00015257	0.00012046	0.00053599	0.00028683	0.00470299
64	AIR TRANS	0.00034328	0.00154691	0.00050446	0.00027119	0.00107038
65	PIPE TRANS	0	0	0	0	0
66	LOCAL TRANS	0	0	0	0	0.00197597
67	WARE&OTH TR	0	0	0.00359429	0	0.00046163
68	TELEP&TELEG	0.00842932	0.00649194	0.01863354	0.01021127	0.01052525
69	TV,RAD,COMM	0.00007628	0	0	0	0
70	GAS SERVICE	0.00044499	0.00005072	0.00163950	0.00352023	0.00641136
71	ELEC SERV	0.00241564	0.00015215	0.00277454	0.02200272	0.01275091
72	WT&SAN SER	0.00052127	0.00003804	0.00375193	0.00221122	0.00374676
73	WHL AUTO PTS	0.00015257	0.00001902	0.00015764	0.00001565	0.00208019
74	WHL GRO	0	0	0	0	0.00741582
75	WHL FM PROD	0	0	0	0	0.00007072
76	WHL MACH&EQP	0.00013985	0.00250422	0.00025223	0.00003651	0.00019644
77	WHL PETROLEM	0.00027971	0.00008876	0.00025223	0.00002608	0.00241174
78	GEN WHL	0.00166552	0.00585162	0.00419333	0.00723863	0.00605199
79	BLD MAT	0	0	0	0	0.00360467
80	RTL TRD-GEN	0	0	0	0	0.03312478
81	FOOD STORES	0	0	0	0	0.02219203
82	AUTO DL&REP	0.00020342	0.00001902	0.00037835	0.00281618	0.01187195
83	GAS SER STA	0.00026699	0.00003170	0.00059905	0.00575231	0.00531686
84	APP&ACCESS	0	0	0	0	0.00791173
85	FURNITURE	0	0	0	0.00026076	0.00647837
86	EAT&DRINK	0	0	0	0.00086050	0.02572980
87	OTH RETAIL	0.00005086	0.00004438	0.00003153	0.00021904	0.01956825
88	BK&CREDIT	0.00639510	0.00358198	0.00359429	0.00063103	0.00759524
89	INSURANCE	0.00209780	0.00282755	0.00198632	0.00385400	0.02576451
90	F.I.R.E	0.00736135	0.02570784	0.02380427	0.00436508	0.02765535
91	LEGAL SER	0.00022885	0.00071006	0.00148186	0.00126207	0.00116478
92	LODGE SER	0	0	0	0	0.00027949
93	PERSNL SER	0	0	0	0	0.02100488
94	ADV,DUP&AD	0.06350599	0.00015849	0.00271148	0.00231031	0.00000207
95	PHOTO&REC	0	0	0.00331053	0.00240940	0.00746264
96	OTH BUS SE	0.00333104	0.00048182	0.01223319	0.00486052	0.00492911
97	AUTO RENT,PK	0	0.00206677	0	0	0.00232399
98	REPAIR SER	0.00013985	0.00030431	0.00053599	0.00010430	0.00472700
99	PHYS&DEN	0	0	0.00069363	0	0.01603582
100	HOS&LAB SER	0.00011443	0.00053888	0.00053599	0.00048501	0.01232191
101	OTH MED SER	0	0	0	0	0.00675328
102	ELE&SECD SCH	0.00111882	0.00499575	0.00504461	0.00264408	0.02178507
103	COLL & UNIV	0.00013985	0.00039307	0.00066211	0.00088136	0.00788051
104	OTH ED SER	0.00001271	0.00004438	0.00003153	0.00002086	0.00472602
105	ENG & ARC	0.03379358	0	0	0	0.00005457
106	ACCT,ACD,&BK	0.00027971	0.03061483	0.01030993	0.00769235	0.00085200
107	OTH PROF SER	0	0	0	0	0.00000546
108	OTH SER	0.00092812	0.00168004	0.00122962	0.02154900	0.01641801
109	HOUSEHOLDS	0.75191344	0.59155921	0.76570924	0.56482172	0.00264157
110	GROSS SAVING	0.02439800	0.16922794	0.03033074	0.02058942	0.04909327
111	FEO. GOVT.	0.03603123	0.01948217	0.03587981	0.01189054	0.11689842
112	STATE GOVT.	0.00213594	0.00427302	0.01040451	0.00462062	0.01049895
113	LOCAL GOVT.	0.00110611	0.00494503	0.00501308	0.00262322	0.00673647
114	IMPORTS	0.01952857	0.11738116	0.01560677	0.25545374	0.33418341
TOTAL		1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

Table 6. Direct and indirect requirements per dollar of sales to final demand by industrial sector -- North Central Region; Texas 1967

TABLE 6. INTERDEPENDENCE COEFFICIENTS (EXCLUDING HOUSEHOLDS) : NORTH CENTRAL , TEXAS, 1967

	1	2	3	4	5	6	7	8
1 COTTON	1.02424614	0.00000927	0.00000421	0.00048751	0.00039322	0.00003648	0.00008311	0.00000152
2 CASH GRAINS	0.00067385	1.02390149	0.00004447	0.04393190	0.18053254	0.12182051	0.07962005	0.00001022
3 OTHER GRAINS	0.00003847	0.00002642	1.04357170	0.09418597	0.05009480	0.08155503	0.00030608	0.00000487
4 RANGE LVSTK.	0.00002238	0.00002325	0.00001566	1.00057431	0.49743969	0.00002920	0.00003852	0.00000561
5 FEED LVSTK.	0.00001742	0.00001810	0.00001219	0.00003352	1.00002547	0.00002273	0.00002999	0.00000437
6 DAIRY	0.00018445	0.00019490	0.00013135	0.01161669	0.00583835	1.00809149	0.00030537	0.00004250
7 POULTRY&EGGS	0.00829267	0.00252455	0.00025220	0.00133846	0.00130209	0.00241866	1.06144065	0.00000722
8 AGSUP EXFAMA	0.05155574	0.04839675	0.04142652	0.03120571	0.03362972	0.02841111	0.07947832	1.00000226
9 AG SERVICES	0.10088659	0.03048495	0.00286060	0.01574160	0.01543999	0.02911225	0.03051490	0.00000182
10 PET&NAT GAS	0.00082182	0.00073037	0.00057152	0.00051319	0.00087674	0.00098631	0.00128307	0.00080734
11 OILFIELD SER	0.00004801	0.00004270	0.00003309	0.00003096	0.00005155	0.00005760	0.00007632	0.00005085
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000190	0.00000178	0.00000109	0.00000161	0.00000124	0.00000204	0.00000359	0.00000115
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001643	0.00001543	0.00000935	0.00001417	0.00001083	0.00001766	0.00003131	0.00001082
16 MAINT&REPAIR	0.01279424	0.01203052	0.00730883	0.01095009	0.00826989	0.01374841	0.02430262	0.00769624
17 MEAT PROD	0.00041921	0.00043554	0.00029334	0.00080643	0.00061280	0.00054693	0.00072142	0.00010502
18 DAIRY PROD	0.00049391	0.00052205	0.00035183	0.00068911	0.00051032	0.00063742	0.00081709	0.00011361
19 GRN MILLPRD	0.00367305	0.00117902	0.00016702	0.02807596	0.08513802	0.17001006	0.45907961	0.00002985
20 BAKERY PROD	0.00021316	0.00022902	0.00015749	0.00023219	0.00016608	0.00028308	0.00035876	0.00004890
21 OTHFOODPROD	0.00053121	0.00048463	0.00031326	0.03896079	0.03140164	0.00267887	0.00640639	0.00012207
22 TEXTILE MILL	0.00000913	0.00000684	0.00000371	0.00000621	0.00000558	0.00000903	0.00001528	0.00000308
23 FAB TEX MILL	0.00007452	0.00004165	0.00001813	0.00003868	0.00004282	0.00007030	0.00012151	0.00000919
24 LUM&WOOD PR	0.00090435	0.00099397	0.00059329	0.00070083	0.00058923	0.00084234	0.00207308	0.00041246
25 FURN & FIX	0.00018601	0.00017121	0.00010280	0.00015332	0.00011980	0.00019176	0.00031852	0.00009845
26 PAPER EX BOX	0.00105240	0.00089509	0.00054565	0.00078929	0.00115126	0.00143028	0.02163529	0.00025460
27 BOX&CONTAIN	0.00057894	0.00053466	0.00028796	0.00281478	0.00263469	0.00100959	0.00234998	0.00010822
28 NEWSPAPERS	0.00249304	0.00234002	0.00172428	0.00160154	0.00160130	0.00165739	0.00331527	0.03319085
29 PUB&PRINTING	0.00251033	0.00203369	0.00108589	0.00175551	0.00184400	0.00194943	0.00278529	0.00460467
30 DRUGS,SPS&CL	0.00019675	0.00016655	0.00007563	0.00019987	0.00015241	0.000342906	0.00311687	0.00002306
31 OTH CHEMICAL	0.13891634	0.12980339	0.04723488	0.05351449	0.04798139	0.04342935	0.01826163	0.00062753
32 PET REF	0.00011707	0.00010638	0.00006711	0.00009512	0.00009234	0.00013952	0.00023084	0.00007026
33 RUBBER PROD	0.00084610	0.00116259	0.00044623	0.00028259	0.00033988	0.00059810	0.00045849	0.00007320
34 PLASTIC PROD	0.00025708	0.00024771	0.00034974	0.00014661	0.00012032	0.00013636	0.00009242	0.00001216
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00094136	0.00085575	0.00045570	0.00123628	0.00122153	0.00111533	0.00237111	0.00336251
37 PRIMARY MET	0.00089372	0.00082039	0.00049657	0.00069142	0.00058684	0.00083543	0.00135828	0.00085062
38 FAB STEEL	0.00000127	0.00000120	0.00000073	0.00000109	0.00000083	0.00000137	0.00000242	0.00000077
39 PLATE WORK	0.00002457	0.00002313	0.00001141	0.00001550	0.00001241	0.00001795	0.00002675	0.00000802
40 SH METAL&ARC	0.00004928	0.00003965	0.00002245	0.00005030	0.00003943	0.00004402	0.00007529	0.00002250
41 METAL DOORS	0.00007064	0.00006639	0.00004065	0.00006033	0.00004562	0.00007513	0.00013251	0.00004193
42 FAB MET PROD	0.00001904	0.00001736	0.00001122	0.000139415	0.000112366	0.00009588	0.00022928	0.00000438
43 PLU,HEATE&REF	0.00046224	0.00038833	0.00022464	0.00034624	0.00026470	0.00043886	0.00075877	0.00023338
44 ELECTROPLAT	0.00005544	0.00004908	0.00004255	0.00005586	0.00004320	0.00001993	0.00002197	0.00000922
45 OTH FAB MET	0.00205819	0.00181546	0.00176697	0.00157834	0.00115900	0.00047076	0.00026102	0.00002261
46 FM,CN, ID MA	0.00065954	0.00024113	0.00003968	0.00011881	0.00011425	0.00019314	0.00019091	0.00000184
47 MIN MACH	0.00000006	0.00000005	0.00000004	0.00000004	0.00000006	0.00000007	0.00000009	0.00000006
48 MET WK MACH	0.00007419	0.00006830	0.00003356	0.00003817	0.00003630	0.00004081	0.00005238	0.00018643
49 IND PROD MACH	0.00000409	0.00000381	0.00000219	0.00000647	0.00000560	0.00000387	0.00000528	0.00000384
50 ENG&GEN MACH	0.00000800	0.00000451	0.00000235	0.00000276	0.00000315	0.00000395	0.00000501	0.00000201
51 OTH MAC&EQUP	0.00011251	0.00010565	0.00004616	0.00006172	0.00005218	0.00006059	0.00007267	0.00002161
52 ELEC INS	0.00012690	0.00011227	0.00006435	0.00009713	0.00008037	0.00012526	0.00021288	0.00008350
53 ELEC COM	0.00002269	0.00001743	0.00000883	0.00001423	0.00001253	0.00001967	0.00003044	0.00001401
54 OTH ELEC APP	0.00006976	0.000013119	0.00007767	0.00009002	0.00006669	0.00017458	0.00023568	0.00000231
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000462	0.00000536	0.00000502	0.00000195	0.00000438	0.00000280	0.00000273	0.00000070
57 MOTOR VECH	0.00025735	0.00022053	0.00012272	0.00019747	0.00026612	0.00045999	0.00072117	0.00055553

58	OTH TRAN EQ	0.00000015	0.00000015	0.00000011	0.00000015	0.00000013	0.00000019	0.00000025	0.00000007
59	PROF, SC&CONT	0.00004323	0.00004562	0.00003038	0.00004348	0.00003187	0.00005315	0.00006664	0.00001012
60	OTH MFG	0.00037217	0.00019803	0.00023092	0.00014221	0.00018775	0.00016181	0.00021640	0.00072519
61	RAIL TRANS	0.00186846	0.00134267	0.00109292	0.00103135	0.00307196	0.00354222	0.00449603	0.00110469
62	INTERCITY TR	0.00002620	0.00002401	0.00001486	0.00002008	0.00001497	0.00001442	0.00001512	0.00000424
63	MOTOR TRANS	0.00351870	0.00319612	0.00213230	0.00222723	0.00731445	0.00640423	0.00867049	0.00131851
64	AIR TRANS	0.00049564	0.00057506	0.00053887	0.00020929	0.00047027	0.00030076	0.00029284	0.00007522
65	PIPE TRANS	0.00000199	0.00000181	0.00000114	0.00000162	0.00000157	0.00000237	0.00000392	0.00000119
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00022319	0.00020667	0.00012550	0.00022464	0.00025642	0.00099821	0.00072067	0.00004909
68	TELEP&TELEG	0.00622427	0.00589100	0.00231427	0.00489613	0.00459757	0.00616956	0.00905803	0.01605275
69	TV, RAD, COMM	0.00051862	0.00056629	0.00028920	0.00043719	0.00041842	0.00074391	0.00087920	0.00032334
70	GAS SERVICE	0.00483595	0.00428482	0.00346327	0.00307943	0.00536341	0.00604554	0.00792714	0.00502776
71	ELEC SERV	0.00758491	0.00689099	0.00327316	0.00551830	0.00612702	0.00783161	0.01575266	0.01212039
72	WT&SAN SER	0.00087821	0.00078833	0.00040184	0.00055929	0.00066124	0.00076891	0.00120504	0.00205398
73	WHL AUTO PTS	0.00454813	0.00599737	0.00175187	0.00142262	0.00193314	0.00294317	0.00258770	0.00174477
74	WHL GRO	0.00019474	0.00020552	0.00013884	0.00023172	0.00016894	0.00024970	0.00031720	0.00004448
75	WHL FM PROD	0.00103955	0.00116738	0.00255522	0.00587473	0.01651187	0.01000334	0.02329220	0.00000106
76	WHL MACH&EQP	0.00305072	0.00223254	0.00146813	0.00125532	0.00160903	0.00141667	0.00226640	0.00086209
77	WHL PETROLEM	0.01895191	0.02303911	0.00823706	0.00515676	0.00678490	0.01277420	0.00421880	0.00118535
78	GEN WHL	0.04215906	0.03791563	0.02316626	0.02909328	0.02139319	0.01723355	0.01664034	0.00377431
79	BLD MAT	0.02493952	0.03105507	0.01046622	0.01696620	0.01368361	0.01179654	0.01010094	0.00013685
80	RTL TRD-GEN	0.00000004	0.00000003	0.00000002	0.00000003	0.00000003	0.00000003	0.00000006	0.00000005
81	FOOD STORES	0.00002618	0.00000800	0.00000082	0.00000479	0.00000459	0.00000785	0.00000821	0.00000028
82	AUTO DL&REP	0.01437849	0.01474357	0.00995215	0.01562466	0.01053881	0.02734611	0.02290303	0.00267438
83	GAS SER STA	0.01405149	0.01854520	0.00692215	0.00408856	0.00526314	0.00979279	0.00236720	0.00173799
84	APP&ACCESS	0.00003124	0.00000945	0.00000089	0.00000488	0.00000479	0.00000903	0.00000947	0.00000000
85	FURNITURE	0.00000022	0.00000017	0.00000009	0.00000031	0.00000028	0.00000017	0.00000026	0.00000017
86	EAT&DRINK	0.00025964	0.00019374	0.00010697	0.00021867	0.00016718	0.00019734	0.00027232	0.00019077
87	OTH RETAIL	0.00024149	0.00022296	0.00014640	0.00008410	0.00018296	0.00023131	0.00020642	0.00029848
88	BK&CREDIT	0.01724296	0.01707860	0.01618944	0.02223414	0.03204040	0.01480091	0.02550470	0.01837543
89	INSURANCE	0.01528152	0.01527647	0.01084468	0.02516640	0.01675743	0.02023916	0.03034636	0.01675065
90	F.I.R.E	0.00434891	0.00446097	0.00250211	0.00311244	0.00329572	0.00418434	0.00521055	0.01159806
91	LEGAL SER	0.00071806	0.00070582	0.00039874	0.00054582	0.00063161	0.00064432	0.00088214	0.00158436
92	LODGE SER	0.00051706	0.00028249	0.00011705	0.00026762	0.00021424	0.00028232	0.00036361	0.00015901
93	PERSNL SER	0.00013753	0.00013206	0.00007082	0.00010126	0.00008754	0.00015767	0.00018510	0.00002804
94	ADV, DUP&AD	0.00238232	0.00227941	0.00116078	0.00171054	0.00203202	0.00207676	0.00279360	0.00099419
95	PHOTO&REC	0.00012817	0.00011447	0.00007027	0.00009901	0.00010973	0.00008921	0.00012028	0.00006173
96	OTH BUS SE	0.00832847	0.00467889	0.00216920	0.00382804	0.00438983	0.00440386	0.00697223	0.00670786
97	AUTO RENT, PK	0.00029079	0.00024853	0.00014155	0.00059350	0.00101744	0.00154567	0.00395501	0.00006560
98	REPAIR SER	0.00263420	0.00229341	0.00162884	0.00198711	0.00216262	0.00859649	0.00548672	0.00676957
99	PHYS&DEN	0.00005471	0.00005341	0.00003743	0.00008680	0.00005821	0.00007030	0.00010518	0.00005817
100	HOS&LAB SER	0.00228510	0.00244915	0.00169625	0.00241019	0.00171779	0.00302839	0.00383067	0.00050510
101	OTH MED SER	0.00000280	0.00000277	0.00000181	0.00000365	0.00000270	0.00000330	0.00000472	0.00000442
102	ELE&SECD SCH	0.02110531	0.02273658	0.01565364	0.02235840	0.01592316	0.02809648	0.03553937	0.00475111
103	CDLL & UNIV	0.00108943	0.00115418	0.00079098	0.00113940	0.00094127	0.00140396	0.00185109	0.00049851
104	OTH ED SER	0.00018139	0.00020167	0.00013638	0.00019053	0.00013396	0.00024866	0.00031308	0.00001788
105	ENG & ARC	0.00002782	0.00002793	0.00001508	0.00001926	0.00001965	0.00002486	0.00003131	0.00006026
106	ACCT, ACD, 68K	0.00162123	0.00141041	0.00079539	0.00107878	0.00124822	0.00121864	0.00163350	0.00252982
107	OTH PROF SER	0.00297763	0.00115440	0.00029381	0.00090022	0.00076980	0.00112263	0.00130601	0.00029672
108	OTH SER	0.00075862	0.00059302	0.00031507	0.00050990	0.00052184	0.00053319	0.00072409	0.00041242
TOTAL		1.59156631	1.50142341	1.28738764	1.53430730	2.16438756	1.73936758	2.06806453	1.17772828

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

	9	10	11	12	13	14	15	16
1 COTTON	0.00012158	0.00000144	0.00000043	0.00000094	0.00000076	0.00000091	0.00000087	0.00000137
2 CASH GRAINS	0.000634995	0.00000970	0.00000603	0.00000552	0.00000588	0.00000695	0.00000851	0.00000822
3 OTHER GRAINS	0.00019851	0.00000869	0.00000613	0.00000264	0.00000241	0.00000292	0.00000327	0.00000378
4 RANGE LVSTK.	0.00001752	0.00000568	0.00000453	0.00000307	0.00000298	0.00000333	0.00000464	0.00000415
5 FEED LVSTK.	0.00001364	0.00000442	0.00000353	0.00000239	0.00000232	0.00000259	0.00000362	0.00000323
6 DAIRY	0.00010332	0.00004749	0.00003326	0.00002318	0.00001962	0.00002080	0.00002881	0.00002900
7 POULTRY&EGGS	0.08216035	0.00000654	0.00000521	0.00000392	0.00000430	0.00000498	0.00000669	0.00000571
8 AGSUP EXFAMA	0.01081846	0.00000244	0.00000385	0.00000124	0.00000119	0.00000135	0.00000176	0.00000170
9 AG SERVICES	1.00238163	0.00000192	0.00000144	0.00000100	0.00000091	0.00000102	0.00000133	0.00000134
10 PET&NAT GAS	0.00169912	1.02520661	0.00040467	0.00052597	0.00062587	0.00108900	0.00085105	0.00076632
11 OILFIELD SER	0.00009867	0.05812188	1.00056683	0.00007740	0.00011366	0.00011481	0.00022936	0.00007684
12 RES CONS	0	0	0	1.00000000	0	0	0	0
13 COMM&ED CONS	0.00000365	0.00004480	0.00000020	0.00100975	1.00269578	0.00452109	0.00048884	0.00014576
14 IND CONS	0	0	0	0	0	1.00000000	0	0
15 FAC CONS	0.00003157	0.00005495	0.00000163	0.00001284	0.00002083	0.01929688	1.00004086	0.00126248
16 MAINT&REPAIR	0.02460979	0.00077012	0.00122305	0.00117154	0.00117391	0.00150818	0.00081623	1.00250771
17 MEAT PROD	0.00032809	0.00010645	0.00008491	0.00005757	0.00005574	0.00006243	0.00008700	0.00007771
18 DAIRY PROD	0.00027463	0.00012721	0.00008884	0.00006195	0.00005228	0.00005535	0.00007667	0.00007738
19 GRN MILLPRD	0.03563195	0.00002353	0.00001277	0.00001620	0.00001968	0.00002342	0.00002899	0.00002573
20 BAKERY PROD	0.00008139	0.00005659	0.00001410	0.00002631	0.00001936	0.00002060	0.00003022	0.00003062
21 OTHFOODPROD	0.00125512	0.00011546	0.00003441	0.00007540	0.00006074	0.00007289	0.00006937	0.00010991
22 TEXTILE MILL	0.00003963	0.00000174	0.00000780	0.00000997	0.00002511	0.00033159	0.00000190	0.00028379
23 FAB TEX MILL	0.00050430	0.00001461	0.00011895	0.00015906	0.00039527	0.00530991	0.00002424	0.00002484
24 LUM&WOOD PR	0.00172733	0.00004599	0.00006761	0.05097278	0.00271000	0.01836666	0.00015242	0.05286127
25 FURN & FIX	0.00040053	0.00003435	0.00003457	0.00002821	0.00008337	0.00089972	0.00001922	0.01093194
26 PAPER EX BOX	0.00267857	0.00004974	0.00006325	0.00043052	0.00036912	0.00050881	0.00010224	0.00110727
27 BOXES&CONTAIN	0.00079148	0.00004447	0.00002196	0.00043885	0.00064597	0.00103207	0.00097776	0.00063681
28 NEWSPAPERS	0.00240916	0.00024108	0.00013008	0.00019477	0.00021425	0.00040523	0.00013849	0.00056946
29 PUB&PRINTING	0.00915078	0.00090364	0.00048371	0.00187820	0.00182779	0.00141385	0.00090309	0.00309096
30 DRUGS, SPS&CL	0.00052309	0.00012709	0.00000896	0.00014171	0.00011400	0.00021873	0.00007286	0.00007452
31 OTH CHEMICAL	0.15839101	0.00066082	0.00012366	0.00664466	0.01276852	0.00663564	0.00125623	0.02183349
32 PET REF	0.00021483	0.00001057	0.00001293	0.00450959	0.00479344	0.01798875	0.00594290	0.00792497
33 RUBBER PROD	0.00007280	0.00000472	0.00000577	0.00040082	0.00020049	0.00029839	0.00007043	0.00062982
34 PLASTIC PROD	0.00031574	0.00000516	0.00000543	0.00056625	0.00045190	0.00027259	0.00019320	0.00075057
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0.00155585	0.00159602	0.00007293	0.03151330	0.05177696	0.03514947	0.11928085	0.02211963
37 PRIMARY MET	0.00176313	0.00006287	0.00007913	0.00548527	0.00818199	0.00649037	0.00787163	0.04550803
38 FAB STEEL	0.00000245	0.00000119	0.00000012	0.00020959	0.01582885	0.01402019	0.00748298	0.00009960
39 PLATE WORK	0.00004091	0.00001981	0.00000138	0.00008407	0.01690215	0.01084796	0.00525700	0.00102541
40 SH METAL&ARC	0.00017732	0.00000345	0.00000823	0.00782108	0.00550608	0.05058157	0.00480397	0.00281281
41 METAL DOORS	0.00013494	0.00000446	0.00000754	0.00497459	0.00369130	0.00800185	0.00000660	0.00545975
42 FAB MET PROD	0.00004503	0.00000414	0.00000124	0.00000332	0.00000388	0.00000368	0.00000269	0.00000479
43 PLU, HEAT&REF	0.00147253	0.00003659	0.00004426	0.03099733	0.02116553	0.01097699	0.00321274	0.03018106
44 ELECTROPLAT	0.00004005	0.00000234	0.00000122	0.00019786	0.00036373	0.00120178	0.00015838	0.00042392
45 OTH FAB MET	0.00063628	0.00005176	0.00000559	0.00328502	0.00323737	0.00242991	0.00082156	0.00171080
46 FM, CN, ID MA	0.00597259	0.00000079	0.00000070	0.00056471	0.00050097	0.00097511	0.00008066	0.00009357
47 MIN MACH	0.00000012	0.00000750	0.00021754	0.00000005	0.00000006	0.00000009	0.00000010	0.00000006
48 MET WK MACH	0.00010262	0.00000485	0.00000544	0.00046316	0.00043695	0.00008845	0.00001991	0.00090046
49 IND PRO MACH	0.00000803	0.00012810	0.00000162	0.00000189	0.00000255	0.000091454	0.00000165	0.00000298
50 ENGE&EN MACH	0.000006108	0.00000235	0.00000921	0.00031802	0.00560335	0.03500658	0.00088932	0.00004530
51 OTH MAC&EQUP	0.00015256	0.00001685	0.00022369	0.00013683	0.00035134	0.00036348	0.00000641	0.00226113
52 ELEC INS	0.00032468	0.00001602	0.00001852	0.00294740	0.00777997	0.00850924	0.00176749	0.00721352
53 ELEC COM	0.00009512	0.00000304	0.00000580	0.00051748	0.00142969	0.00089990	0.00017753	0.00071829
54 OTH ELEC APP	0.00007334	0.00000085	0.00000082	0.00000304	0.00000381	0.00000349	0.00000322	0.00000416
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00002843	0.00000324	0.00003735	0.00000140	0.00000119	0.00003187	0.00000092	0.00000223
57 MOTOR VECH	0.00069274	0.00010509	0.00032908	0.00099405	0.00181009	0.00222602	0.00044812	0.00245733

58	OTH TRAN EQ	0.00000009	0.00000015	0.00000012	0.00000005	0.00000021	0.00000079	0.00000006	0.00000006
59	PROF, SC&CONT	0.00002102	0.00004125	0.00017087	0.00000985	0.00002905	0.00011860	0.00001178	0.00001167
60	OTH MFG	0.00121834	0.00002139	0.00013861	0.00043128	0.00008423	0.00084904	0.00006088	0.00069999
61	RAIL TRANS	0.00243526	0.00044674	0.00037272	0.00565107	0.00217510	0.00565807	0.00296106	0.00680689
62	INTERCITY TR	0.00000970	0.00000165	0.00000112	0.00002028	0.00002360	0.00001933	0.00004064	0.00002348
63	MOTOR TRANS	0.00389085	0.00084369	0.00055840	0.00900574	0.00450405	0.00496060	0.00827956	0.01151495
64	AIR TRANS	0.00304943	0.00034773	0.00400564	0.00014963	0.00012734	0.00341788	0.00009904	0.00023933
65	PIPE TRANS	0.00000365	0.00000018	0.00000022	0.00007660	0.00008142	0.00030557	0.00010095	0.00013462
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WAREHOSE TR	0.00025552	0.00008223	0.00001102	0.00016964	0.00013534	0.00014436	0.00009988	0.00047416
68	TELEP&TELEG	0.00931380	0.00247964	0.00410299	0.00385156	0.00527330	0.00691501	0.00387216	0.00567812
69	TV, RAD, COMM	0.00054381	0.00009108	0.00009197	0.00009024	0.00008670	0.00014356	0.00008966	0.00021382
70	GAS SERVICE	0.01025730	0.01004470	0.00252605	0.00215812	0.00270030	0.00220477	0.00384577	0.00278508
71	ELEC SERV	0.01868825	0.00492734	0.00188340	0.00287307	0.00307147	0.00276754	0.00305519	0.00462487
72	WT&SAN SER	0.00241238	0.00029042	0.00115288	0.00046989	0.00026789	0.00038111	0.00026094	0.00098651
73	WHL AUTO PTS	0.00155837	0.00021788	0.00062393	0.00036813	0.00028277	0.00058678	0.00036642	0.00072061
74	WHL GRO	0.00011256	0.00004920	0.00001256	0.00002479	0.00002098	0.00002153	0.00002930	0.00003015
75	WHL FM PROD	0.00221873	0.00000112	0.00000121	0.00000058	0.00000055	0.00000073	0.00000084	0.00000089
76	WHL MACH&EQP	0.00996960	0.00146515	0.00977430	0.00102000	0.00081627	0.00099671	0.00108793	0.00119861
77	WHL PETROLEM	0.02336783	0.00007931	0.00031951	0.00066740	0.00040986	0.00078844	0.00121305	0.00247651
78	GEN WHL	0.01215247	0.00049462	0.00105904	0.01733145	0.01134251	0.01120512	0.00193289	0.02832391
79	BLD MAT	0.00934292	0.00001570	0.00002282	0.01046902	0.00393542	0.00101870	0.00018276	0.01731577
80	RTL TRD-GEN	0.00000012	0.00000001	0.00000001	0.00000071	0.00000006	0.00000027	0.00000001	0.00000075
81	FOOD STORES	0.00025894	0.00001276	0.00021754	0.00000008	0.00000014	0.00000042	0.00001494	0.00000017
82	AUTO DL&REP	0.00865235	0.00048997	0.00312896	0.00170832	0.00126718	0.00207348	0.00238934	0.00384453
83	GAS SER STA	0.00230476	0.00024683	0.00013336	0.00083205	0.00111927	0.00110014	0.00232530	0.00241852
84	APP&ACCESS	0.00031028	0.00000000	0.00000002	0.00000001	0.00000001	0.00000001	0.00000001	0.00000003
85	FURNITURE	0.00000080	0.00000016	0.00000016	0.00000084	0.00000138	0.00000139	0.00000242	0.00000085
86	EAT&DRINK	0.00105187	0.00002218	0.00001807	0.00009610	0.00020447	0.00026394	0.00031684	0.00022205
87	OTH RETAIL	0.00042633	0.00002600	0.00005872	0.00013521	0.00015030	0.00009472	0.00056913	0.00078064
88	BK&CREDIT	0.01352498	0.00349133	0.02509304	0.01509806	0.00589413	0.00623473	0.00392588	0.00736790
89	INSURANCE	0.01263262	0.00050353	0.00063248	0.01126234	0.02712503	0.01549541	0.01867775	0.00901191
90	F.I.R.E	0.00454918	0.00294739	0.00102109	0.00235879	0.00249980	0.00246277	0.00194365	0.00622150
91	LEGAL SER	0.00100709	0.00257755	0.00031626	0.00096329	0.00173845	0.00147868	0.00060029	0.00214605
92	LODGE SER	0.00355140	0.00004150	0.00002410	0.00009774	0.00022115	0.00017096	0.00015338	0.00012923
93	PERSNL SER	0.00014022	0.00006285	0.00029239	0.00008197	0.00006751	0.00010640	0.00009664	0.00035838
94	ADV, DUPEAD	0.00483636	0.00045321	0.00063795	0.00177496	0.00240024	0.00219496	0.00097116	0.00420329
95	PHOTO&REC	0.00024766	0.00002545	0.00004830	0.00008587	0.00007747	0.00007888	0.00003252	0.00014204
96	OTH BUS SE	0.05638020	0.01180128	0.00173952	0.00140235	0.00662200	0.01743067	0.00233607	0.01499090
97	AUTO RENT, PK	0.00048381	0.00011219	0.00051447	0.00028601	0.00023581	0.00048679	0.00032730	0.00040588
98	REPAIR SER	0.00645391	0.00025157	0.00031130	0.00026910	0.00069558	0.00046310	0.00028372	0.00061886
99	PHYS&DEN	0.00006270	0.00013706	0.00000247	0.00004122	0.00009948	0.00007502	0.00007203	0.00003611
100	HOSE&LAB SER	0.00082157	0.00060923	0.00015983	0.00027658	0.00019500	0.00020399	0.00028415	0.00031531
101	OTH MED SER	0.00000311	0.00000536	0.00000030	0.00000192	0.000000396	0.00000311	0.00000290	0.00000254
102	ELE&SECD SCH	0.00737926	0.00563559	0.00139522	0.00256101	0.00179091	0.00187058	0.00263297	0.00290306
103	COLL & UNIV	0.00061747	0.00113810	0.00091170	0.00028183	0.00066521	0.00041622	0.00027754	0.00044073
104	OTH ED SER	0.00004846	0.00005153	0.00000541	0.00002563	0.00001893	0.00001778	0.00002452	0.00002835
105	ENG & ARC	0.00003286	0.00001637	0.00000730	0.00072326	0.00086045	0.00177870	0.00034632	0.00016798
106	ACCT, ACD, & BK	0.00437340	0.00100137	0.00322225	0.00114989	0.00116783	0.00108207	0.00144175	0.00293984
107	OTH PROF SER	0.02622843	0.00200999	0.00003187	0.00025023	0.00057858	0.00067396	0.00037935	0.00032229
108	OTH SER	0.00289892	0.00030093	0.00058884	0.00095723	0.00149876	0.00252601	0.00095018	0.00163905
TOTAL		1.62687896	1.14491105	1.07204822	1.25753466	1.26698273	1.37050337	1.23389464	1.37482220

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

	17	18	19	20	21	22	23	24
1 COTTON	0.00007187	0.00001603	0.00015689	0.00043533	0.01285976	0.00000129	0.00000146	0.00000127
2 CASH GRAINS	0.01655073	0.04679407	0.17346999	0.01905819	0.00815085	0.00000696	0.00000463	0.00000433
3 OTHER GRAINS	0.00644775	0.03132641	0.00059457	0.00233098	0.00520174	0.00000377	0.00000239	0.00000222
4 RANGE LVSTK.	0.05669840	0.00001422	0.00001333	0.00114062	0.00054969	0.00000388	0.00000238	0.00000226
5 FEED LVSTK.	0.04413936	0.00001107	0.00001038	0.00088797	0.00042793	0.00000302	0.00000185	0.00000176
6 DAIRY	0.00863997	0.38720480	0.00007903	0.00734970	0.00193171	0.00003417	0.00001872	0.00001711
7 POULTRY&EGGS	0.06292678	0.00093261	0.00043974	0.00133091	0.00073886	0.00000453	0.00000292	0.00000281
8 AGSUP EXFAMA	0.00757409	0.01091328	0.00823259	0.00128473	0.00133742	0.00000165	0.00000103	0.00000096
9 AG SERVICES	0.00341423	0.01118237	0.00518329	0.00085463	0.00159761	0.00000142	0.00000088	0.00000080
10 PET&NAT GAS	0.00059328	0.00078045	0.00049146	0.00119855	0.00058654	0.00124028	0.00027149	0.00069892
11 OILFIELD SER	0.00003514	0.00004520	0.00003298	0.00006979	0.00005863	0.00007047	0.00001549	0.00004035
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000066	0.00000141	0.00000055	0.00000070	0.00000044	0.00000033	0.00000020	0.00000031
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000581	0.00001209	0.00000573	0.00000605	0.00000915	0.00000252	0.00001234	0.00000298
16 MAINT&REPAIR	0.00433739	0.00943272	0.00364533	0.00443811	0.00280604	0.00191258	0.00124982	0.00190172
17 MEAT PROD	1.06191917	0.00026639	0.00024972	0.02136302	0.01029538	0.00007264	0.00004461	0.00004240
18 DAIRY PROD	0.00027429	1.05612555	0.00021007	0.01957830	0.00504308	0.00009161	0.00005010	0.00004573
19 GRN MILLPRD	0.04120513	0.06531387	1.00067223	0.10482482	0.03829749	0.00001752	0.00001370	0.00001284
20 BAKERY PROD	0.00006234	0.00013636	0.00006918	1.00508285	0.00022934	0.00003684	0.00002163	0.00001986
21 OTHFOODPROD	0.00573480	0.00119056	0.01253747	0.03490273	1.03122571	0.00010379	0.00011697	0.00010159
22 TEXTILE MILL	0.00000495	0.00000560	0.00001143	0.00000353	0.00000914	1.01762209	0.05813385	0.00000181
23 FAB TEX MILL	0.00005947	0.00003346	0.00017046	0.00003283	0.00013263	0.00001159	1.00102802	0.00000575
24 LUM&WOOD PR	0.00074157	0.00074599	0.00028520	0.00038055	0.00090230	0.00011204	0.00047637	1.00613743
25 FURN & FIX	0.00005800	0.00014178	0.00005935	0.00006296	0.00005580	0.00003055	0.00009291	0.00005706
26 PAPER EX BOX	0.00707281	0.00632429	0.00457353	0.01894801	0.00368076	0.00157271	0.00218829	0.00596659
27 BOXS&CONTAIN	0.02978420	0.03210622	0.00304609	0.01739779	0.06321615	0.00147446	0.00895198	0.00031269
28 NEWSPAPERS	0.00050402	0.00091894	0.00053326	0.00055984	0.00122335	0.00009411	0.00012209	0.00019467
29 PUB&PRINTING	0.00239261	0.00212452	0.00188401	0.01020475	0.00489132	0.00088495	0.00126691	0.00095203
30 DRUGS,SPS&CL	0.00066674	0.00133913	0.00005906	0.00027112	0.00162477	0.00013465	0.00001755	0.00002553
31 OTH CHEMICAL	0.00608879	0.01699828	0.02224133	0.01535048	0.00428162	0.00011880	0.00270469	0.00135096
32 PET REF	0.00006104	0.00019207	0.00009615	0.00009301	0.00006786	0.00010524	0.00004181	0.00009002
33 RUBBER PROD	0.00019421	0.00025333	0.00023641	0.00015256	0.00010121	0.00001404	0.00005205	0.00079301
34 PLASTIC PROD	0.00092506	0.00006839	0.00005202	0.00025409	0.00031904	0.00000379	0.00001163	0.00003399
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00099501	0.00062990	0.00338958	0.00122136	0.01680561	0.00010463	0.00006457	0.00048251
37 PRIMARY MET	0.00030675	0.00056708	0.00039540	0.00045126	0.00119524	0.00030338	0.00016313	0.00592085
38 FAB STEEL	0.00000043	0.00000094	0.00000037	0.00000045	0.00000032	0.00000019	0.00000020	0.00000019
39 PLATE WORK	0.00000511	0.00001120	0.00000564	0.00000618	0.00000342	0.00000202	0.00000195	0.00000279
40 SH METAL&ARC	0.00003293	0.00003094	0.00001743	0.00003025	0.00045135	0.00000563	0.00001032	0.00000659
41 METAL DOORS	0.00002371	0.00005152	0.00002007	0.00002451	0.00001825	0.00001060	0.00000692	0.00001088
42 FAB MET PROD	0.00020522	0.00004262	0.00044864	0.00124893	0.03690025	0.00000372	0.00001460	0.00000365
43 PLU,HEAT&REF	0.00031612	0.00029540	0.00011575	0.00017311	0.00014151	0.00005932	0.00004254	0.00005837
44 ELECTROPLAT	0.00000957	0.00001148	0.00001776	0.00003591	0.00056016	0.00000274	0.00000935	0.00006352
45 OTH FAB MET	0.00016030	0.00021684	0.00039978	0.00068362	0.00700953	0.00000598	0.00013397	0.00111960
46 FM,CN, ID MA	0.00003489	0.00007572	0.00004159	0.00001345	0.00001252	0.00000100	0.00000165	0.00000134
47 MIN MACH	0.00000004	0.00000006	0.00000004	0.00000009	0.00000005	0.00000000	0.00000002	0.00000005
48 MET WK MACH	0.00001449	0.00002435	0.00002303	0.00002404	0.00002032	0.00001491	0.00000910	0.00001402
49 IND PRO MACH	0.00000264	0.00000283	0.00000314	0.00003593	0.00009256	0.00000130	0.00000155	0.00000116
50 ENG&GEN MACH	0.00000166	0.00000259	0.00000219	0.00002424	0.00000544	0.00000249	0.00000149	0.00000126
51 OTH MAC&EQUIP	0.00005752	0.00007773	0.00002705	0.00005864	0.00009924	0.00000772	0.00006366	0.00000756
52 ELEC INS	0.00005133	0.00012110	0.00004893	0.00005925	0.00004626	0.00004991	0.00003660	0.00006448
53 ELEC COM	0.00000760	0.00001657	0.00001227	0.00001005	0.00001482	0.00000702	0.00871263	0.00000842
54 OTH ELEC APP	0.00004570	0.00006835	0.00002483	0.00010295	0.00000639	0.00000161	0.00001310	0.00000420
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000112	0.00000267	0.00000212	0.00000229	0.00000212	0.00000768	0.00000238	0.00000228
57 MOTOR VECH	0.00018277	0.00076910	0.00110145	0.00046130	0.00064763	0.00012484	0.00011018	0.00053778

58 OTH TRAN EQ	0.00000005	0.00000011	0.00000006	0.00000006	0.00000009	0.00000005	0.00000004	0.00000005
59 PROF, SC&CONT	0.00001042	0.00002672	0.00001377	0.00014958	0.00002752	0.00000780	0.00002984	0.00000477
60 OTH MFG	0.00015772	0.00039499	0.00015913	0.00057220	0.00036543	0.00001152	0.00026398	0.00003094
61 RAIL TRANS	0.00302110	0.00314001	0.00755446	0.00650802	0.00512442	0.01009281	0.00357227	0.00839938
62 INTERCITY TR	0.00000378	0.00000870	0.00000694	0.00019431	0.00002622	0.00000107	0.00000641	0.00000394
63 MOTOR TRANS	0.01482392	0.00528393	0.01241975	0.00694056	0.01608049	0.00322653	0.01471541	0.02328790
64 AIR TRANS	0.00011970	0.00028606	0.00022741	0.00024573	0.00022704	0.00082407	0.00025543	0.00024484
65 PIPE TRANS	0.00000104	0.00000173	0.00000163	0.00000158	0.00000115	0.00000179	0.00000071	0.00000153
66 LOCAL TRANS	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0.00018629	0.00042624	0.00006644	0.00044146	0.00023995	0.00004105	0.00006217	0.00015453
68 TELEP&TELEG	0.00292771	0.00544049	0.00466908	0.00483065	0.00338825	0.00241751	0.00264932	0.00525988
69 TV, RAD, COMM	0.00019165	0.00041483	0.00096000	0.00047884	0.00130679	0.00008577	0.00003400	0.00009876
70 GAS SERVICE	0.00368138	0.00481979	0.00300459	0.00743866	0.00364108	0.00772627	0.00168138	0.00434376
71 ELEC SERV	0.00592316	0.01360451	0.00688323	0.00962020	0.00848457	0.02116910	0.00479632	0.00632985
72 WT&SAN SER	0.00220510	0.00308545	0.00091902	0.00152560	0.00155879	0.00131505	0.00056064	0.00132659
73 WHL AUTO PTS	0.00072755	0.00137924	0.00162572	0.00084500	0.00055651	0.00040961	0.00032414	0.00083285
74 WHL GRO	0.00006349	0.00012098	0.00007006	0.01581540	0.00091471	0.00003914	0.00002002	0.00001831
75 WHL FM PROD	0.00603926	0.00384261	0.00020282	0.00022300	0.00027752	0.00040071	0.00002331	0.00000044
76 WHL MACH&EQP	0.00070434	0.00178360	0.00093927	0.00150692	0.00173929	0.00057386	0.00023287	0.00955461
77 WHL PETROLEM	0.00119921	0.00733137	0.00618000	0.00252864	0.00123724	0.00036072	0.00031516	0.00163385
78 GEN WHL	0.00397586	0.01048782	0.00811211	0.00256771	0.00263501	0.00087440	0.01084782	0.00491133
79 BLD MAT	0.00196809	0.00460642	0.00530145	0.00068853	0.00068853	0.00003879	0.00014065	0.00095213
80 RTL TRD-GEN	0.00000003	0.00000003	0.00000002	0.00000011	0.00000006	0.00000001	0.00000006	0.00001366
81 FOOD STORES	0.00000104	0.00000323	0.00000172	0.00000092	0.00001686	0.00000011	0.00000008	0.00000014
82 AUTO DL&REP	0.00420867	0.01301020	0.00452584	0.00959664	0.00164857	0.00097960	0.00044143	0.00201881
83 GAS SER STA	0.00084339	0.00395926	0.00344694	0.00600124	0.00073518	0.00038633	0.00011227	0.00055286
84 APP&ACCESS	0.00000122	0.00000358	0.00000161	0.00000076	0.00000050	0.00000000	0.00000000	0.00000003
85 FURNITURE	0.00000035	0.00000102	0.00000022	0.00000059	0.00000447	0.00000007	0.00001175	0.00000024
86 EAT&DRINK	0.00006887	0.00013067	0.00006172	0.00013044	0.00012714	0.00002820	0.00004804	0.00005249
87 OTH RETAIL	0.00008356	0.00011697	0.00013231	0.00024439	0.00005411	0.00003448	0.00000975	0.00006698
88 BK&CREDIT	0.00762900	0.01154135	0.00450042	0.00583441	0.00306053	0.00133389	0.00492810	0.01282000
89 INSURANCE	0.00506978	0.00839573	0.00399242	0.00413623	0.00465365	0.00289914	0.00306533	0.00289052
90 F.I.R.E	0.00384302	0.01039363	0.00289654	0.00986376	0.00350917	0.00094168	0.00755596	0.00977534
91 LEGAL SER	0.00053016	0.00353736	0.00051001	0.00177155	0.00113285	0.00061298	0.00151457	0.00214616
92 LODGE SER	0.00007303	0.00015086	0.00007435	0.00008716	0.00018627	0.00009947	0.00009461	0.00005612
93 PERSNL SER	0.00236896	0.00174094	0.00007279	0.00721004	0.00013905	0.00005489	0.00002704	0.00040792
94 ADV, DUP&AD	0.00381209	0.00727540	0.00281816	0.01558385	0.00566946	0.00118867	0.00367255	0.00297071
95 PHOTO&REC	0.00009990	0.00018969	0.00007849	0.00035275	0.00014289	0.00003260	0.00009565	0.00023681
96 OTH BUS SE	0.00493489	0.01034675	0.00352855	0.00718367	0.00670826	0.00179482	0.00140500	0.00302142
97 AUTO RENT, PK	0.00043781	0.00064407	0.00825328	0.00124555	0.00519665	0.00072062	0.00009923	0.00223888
98 REPAIR SER	0.00099957	0.00564122	0.00584686	0.00154798	0.00450562	0.00232135	0.00021927	0.00128291
99 PHYS&DEN	0.00002011	0.00003263	0.00001461	0.00001745	0.00002325	0.00001080	0.00001207	0.00001098
100 HOS&LAB SER	0.00053911	0.00145783	0.00071771	0.00052701	0.00050233	0.00040088	0.00023062	0.00021162
101 OTH MED SER	0.00000149	0.00000329	0.00000111	0.00000265	0.00000153	0.00000057	0.00000199	0.00000241
102 ELE&SECD SCH	0.00499482	0.01351144	0.00664793	0.00487197	0.00465904	0.00365930	0.00212584	0.00194628
103 COLL & UNIV	0.00033473	0.00080600	0.00045416	0.00039026	0.00067515	0.00039796	0.00026512	0.00031208
104 OTH ED SER	0.00004333	0.00012137	0.00005763	0.00004504	0.00004217	0.00003447	0.00001983	0.00002477
105 ENG & ARC	0.00011870	0.00005401	0.00001738	0.00005656	0.00002602	0.00000522	0.00003985	0.00004883
106 ACCT, ACD, &BK	0.00079018	0.00105211	0.00097126	0.00305553	0.00107706	0.00073044	0.00111693	0.00176943
107 OTH PROF SER	0.00039928	0.00162075	0.00028685	0.00076692	0.00187609	0.00073251	0.00047211	0.00010388
108 OTH SER	0.00118856	0.00383059	0.00040060	0.00165033	0.00039862	0.00024818	0.00032944	0.00086762
TOTAL	1.46300608	1.85193807	1.35506840	1.44021749	1.361117948	1.09657194	1.15476705	1.14037335

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

	25	26	27	28	29	30	31	32
1 COTTON	0.00000109	0.00000154	0.00000163	0.00000175	0.00000156	0.00000134	0.00000081	0.00000079
2 CASH GRAINS	0.00000475	0.00000768	0.00000858	0.00002735	0.00001432	0.00000500	0.00001356	0.00000429
3 OTHER GRAINS	0.00000240	0.00000414	0.00000460	0.00000658	0.00000545	0.00000269	0.00000696	0.00000231
4 RANGE LVSTK.	0.00000276	0.00000427	0.00000498	0.00001237	0.00000817	0.00000267	0.00000636	0.00000230
5 FEED LVSTK.	0.00000215	0.00000333	0.00000388	0.00000963	0.00000636	0.00000208	0.00000495	0.00000179
6 DAIRY	0.00001993	0.00003526	0.00004115	0.00005230	0.00004573	0.00002084	0.00007290	0.00001840
7 POULTRY&EGGS	0.00000337	0.00000508	0.00000582	0.00002258	0.00001173	0.00000322	0.00000837	0.00000279
8 AGSUP EXFAMA	0.00000109	0.00000178	0.00000203	0.00000466	0.00000295	0.00000113	0.00000316	0.00000096
9 AG SERVICES	0.00000089	0.00000148	0.00000170	0.00000313	0.00000219	0.00000094	0.00000266	0.00000079
10 PET&NAT GAS	0.00063467	0.00080372	0.00045064	0.00083256	0.00050122	0.00066099	0.00178031	0.04105929
11 OILFIELD SER	0.00003670	0.00004610	0.00002579	0.00004745	0.00002893	0.00003821	0.00010605	0.00232851
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000025	0.00000093	0.00000080	0.00000036	0.00000038	0.00000015	0.00000156	0.00000220
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000223	0.00000787	0.00000710	0.00000389	0.00000343	0.00000125	0.00001415	0.00000599
16 MAINT&REPAIR	0.00155274	0.00614372	0.00536969	0.00225795	0.00248969	0.00082051	0.01017699	0.00283632
17 MEAT PROD	0.00005163	0.00008006	0.00009327	0.00023170	0.00015301	0.00004996	0.00011908	0.00004311
18 DAIRY PROD	0.00005323	0.00009441	0.00011020	0.00013756	0.00012137	0.00005575	0.00019622	0.00004925
19 GRN MILLPRD	0.00001358	0.00002019	0.00002223	0.00011685	0.00004930	0.00001392	0.00003345	0.00001203
20 BAKERY PROD	0.00002282	0.00004131	0.00005002	0.00003695	0.00004694	0.00002474	0.00002374	0.00002164
21 OTHFOODPROD	0.00008762	0.00012363	0.00013095	0.00014012	0.00012521	0.00010731	0.00006498	0.00006296
22 TEXTILE MILL	0.02587953	0.00000267	0.00000204	0.00000208	0.00000315	0.00000203	0.00000706	0.00000233
23 FAB TEX MILL	0.00081709	0.00000795	0.00000539	0.00000765	0.00000712	0.00000424	0.00004082	0.00000752
24 LUM&WOOD PR	0.01980768	0.00044332	0.00614341	0.00015128	0.00024591	0.00021352	0.00155880	0.00015847
25 FURN & FIX	1.00016923	0.00008533	0.00006701	0.00006329	0.00010576	0.00006926	0.00018167	0.00007340
26 PAPER EX BOX	0.01130670	1.00918066	0.01616618	0.00260751	0.00152398	0.00226207	0.00415416	0.00023295
27 BOXS&CONTAIN	0.01126918	0.01544750	1.00041109	0.00037071	0.01118544	0.02033977	0.00262611	0.00030419
28 NEWSPAPERS	0.00078235	0.00025629	0.00009052	1.00032902	0.00031694	0.00020072	0.00015586	0.00184026
29 PUB&PRINTING	0.00173935	0.00484400	0.01331030	0.02257401	1.07917745	0.01361777	0.00111266	0.00137786
30 DRUGS,SPS&CL	0.00002290	0.00003518	0.00001541	0.00003398	0.00009562	1.00110487	0.00081527	0.00002092
31 OTH CHEMICAL	0.00927630	0.01874965	0.00054791	0.01088104	0.00844231	0.00111485	1.05769150	0.00371965
32 PET REF	0.00004460	0.00008439	0.00009662	0.00013955	0.00005299	0.00003111	0.00012351	1.00008173
33 RUBBER PROD	0.00065572	0.00003284	0.00002361	0.00005343	0.00006464	0.00002164	0.00004199	0.00009315
34 PLASTIC PROD	0.01221285	0.00004000	0.00008694	0.00002323	0.00004989	0.00208562	0.00179519	0.00005001
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00047905	0.00035352	0.00015824	0.00016387	0.00034296	0.00048612	0.00339270	0.00055820
37 PRIMARY MET	0.00061217	0.00039330	0.00041680	0.01366525	0.00098961	0.00016174	0.00151143	0.00031861
38 FAB STEEL	0.00000016	0.00000061	0.00000054	0.00000023	0.00000025	0.00000008	0.00000102	0.00000033
39 PLATE WORK	0.00000292	0.00000774	0.00000563	0.00000333	0.00000947	0.00000104	0.00000890	0.00000594
40 SH METAL&ARC	0.00158039	0.00001881	0.00008400	0.00000884	0.00001720	0.00000833	0.00004580	0.00001170
41 METAL DOORS	0.00000992	0.00003351	0.00002927	0.00001243	0.00001361	0.00000513	0.00005678	0.00001550
42 FAB MET PROD	0.00000319	0.00000443	0.00000470	0.00000505	0.00000451	0.00000385	0.00000234	0.00000236
43 PLU,HEAT&REF	0.00004853	0.00018664	0.00018041	0.00006988	0.00008227	0.00002611	0.00031564	0.00009009
44 ELECTROPLAT	0.00008137	0.00004957	0.00000708	0.00011670	0.00018945	0.00003522	0.00010214	0.00000945
45 OTH FAB MET	0.00318433	0.00006562	0.00001951	0.00003922	0.00003628	0.00150128	0.00294721	0.00002602
46 FM,CN, ID MA	0.00000480	0.00001071	0.00000103	0.00000569	0.00000479	0.00000085	0.00049251	0.00000256
47 MIN MACH	0.00000005	0.00000006	0.00000003	0.00000006	0.00000004	0.00000005	0.00000013	0.00000300
48 MET WK MACH	0.00030838	0.00001966	0.00001726	0.00535022	0.00012827	0.00001015	0.00035665	0.00002287
49 IND PRO MACH	0.00000167	0.00000381	0.00000919	0.00001535	0.00070706	0.00000930	0.00000705	0.00000854
50 ENG&GEN MACH	0.00000573	0.00000148	0.00000181	0.00000352	0.00009163	0.00000241	0.00000339	0.00079981
51 OTH MAC&EQUP	0.00004646	0.00004877	0.00139173	0.00002170	0.00043576	0.00003997	0.00063261	0.00001297
52 ELEC INS	0.00033233	0.00007110	0.00006282	0.00005072	0.00010027	0.00008898	0.00012483	0.00024473
53 ELEC COM	0.00004190	0.00000921	0.00000829	0.00003249	0.00003280	0.00001149	0.00001463	0.00008810
54 OTH ELEC APP	0.00000187	0.00000254	0.00000184	0.00000511	0.00001364	0.00000175	0.00000795	0.00000651
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000583	0.00000118	0.00000077	0.00000483	0.00000147	0.00000141	0.00000573	0.00000162
57 MOTOR VECH	0.00023600	0.00026379	0.00012840	0.00022508	0.00032197	0.00015175	0.00032583	0.00064038

58	OTH TRAN EQ	0.00000004	0.00000004	0.00000004	0.00000004	0.00000011	0.00000003	0.00000004	0.00000027
59	PROF, SC&CONT	0.000000580	0.000000902	0.000000993	0.000000644	0.00004353	0.00001348	0.00003361	0.00019870
60	OTH MFG	0.00012724	0.00003591	0.00002506	0.00015754	0.00078886	0.00008969	0.00003514	0.00002015
61	RAIL TRANS	0.00362557	0.00404854	0.00609529	0.01362616	0.00374169	0.00275925	0.00488458	0.00665005
62	INTERCITY TR	0.00000345	0.00000242	0.00000251	0.00000586	0.00008935	0.00000671	0.00000438	0.00000159
63	MOTDR TRANS	0.00564136	0.00891751	0.00484125	0.01785578	0.00709340	0.00376305	0.00985057	0.02461418
64	AIR TRANS	0.00062532	0.00012679	0.00008280	0.00051753	0.00015749	0.00015144	0.00061450	0.00017327
65	PIPE TRANS	0.00000076	0.00000143	0.00000164	0.00000237	0.00000090	0.00000053	0.00000210	0.01698795
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00034650	0.00006655	0.00010745	0.00061293	0.00032773	0.00004999	0.00008982	0.00014854
68	TELEP&TELEG	0.00439264	0.00526433	0.00534740	0.00883281	0.00729970	0.00812152	0.00448653	0.00322696
69	TV, RAD, COMM	0.00008287	0.00009406	0.00005871	0.00561613	0.00011246	0.00009466	0.00006405	0.00011455
70	GAS SERVICE	0.00393792	0.00496615	0.00279183	0.00514819	0.00310331	0.00412174	0.00902658	0.00902657
71	ELEC SERV	0.00670041	0.01002608	0.00462587	0.00968940	0.00821903	0.00366961	0.00735182	0.00837087
72	WT&SAN SER	0.00069280	0.00428413	0.00067383	0.00079009	0.00126281	0.00053400	0.00102468	0.00046062
73	WHL AUTO PTS	0.00028857	0.00032449	0.00047398	0.00127442	0.00027605	0.00016126	0.00034332	0.00057894
74	WHL GRO	0.00002137	0.00003742	0.00005373	0.00004380	0.00005588	0.00002238	0.00006800	0.00001935
75	WHL FM PROD	0.00001068	0.00000083	0.00000097	0.00000206	0.00000140	0.00000052	0.00000144	0.00000045
76	WHL MACH&EQP	0.00233335	0.00248050	0.00330741	0.00310866	0.00151110	0.00067096	0.00492511	0.00112122
77	WHL PETROLEM	0.00186984	0.00035338	0.00068922	0.00095905	0.00107873	0.00021458	0.00079649	0.00259084
78	GEN WHL	0.00352575	0.00239065	0.00148759	0.00622079	0.00875906	0.00929056	0.00486407	0.00134259
79	BLD MAT	0.00038108	0.00023973	0.00010206	0.00004416	0.00004660	0.00001604	0.00019157	0.00005182
80	RTL TRD-GEN	0.00000029	0.00000006	0.00000022	0.00000023	0.00001111	0.00000014	0.00000003	0.00000002
81	FOOD STORES	0.00000006	0.00000018	0.00000004	0.00000031	0.00000026	0.00000026	0.00000013	0.00000066
82	AUTO DL&REP	0.00226737	0.00138559	0.00162196	0.00213694	0.00090437	0.00060538	0.00050980	0.00291783
83	GAS SER STA	0.00019552	0.00009696	0.00006076	0.00065933	0.00078029	0.00008658	0.00048938	0.00009193
84	APP&ACCESS	0.00000000	0.00000004	0.00000002	0.00000001	0.00000004	0.00000022	0.00000004	0.00000000
85	FURNITURE	0.00000020	0.00000023	0.00000005	0.00000041	0.00000025	0.00000022	0.00000039	0.00000035
86	EAT&DRINK	0.00005547	0.00005079	0.00003865	0.00188821	0.00055116	0.00004255	0.00024638	0.00003960
87	OTH RETAIL	0.00014341	0.00001644	0.00000835	0.00001449	0.00003129	0.00003770	0.00033087	0.00002968
88	BK&CREDIT	0.00790730	0.00824848	0.00400599	0.00670128	0.01344063	0.00286923	0.00611502	0.00984122
89	INSURANCE	0.00216210	0.00237371	0.00346435	0.00364315	0.00519748	0.00179490	0.00354376	0.00269484
90	F. I. R. E	0.00882716	0.01484834	0.00163943	0.00819040	0.01239775	0.00333750	0.00324345	0.00360029
91	LEGAL SER	0.00059767	0.00113500	0.00048813	0.00093262	0.00189569	0.00542085	0.00093342	0.00314493
92	LDGE SER	0.00006207	0.00006793	0.00003925	0.00008514	0.00016095	0.00004004	0.00016734	0.00003997
93	PERSNL SER	0.00005174	0.000060712	0.00023952	0.00011472	0.00051044	0.00326347	0.00050705	0.00005062
94	ADV, DUP&AD	0.00550279	0.00213688	0.00076196	0.00430167	0.01187490	0.00235291	0.00441754	0.00174425
95	PHOTO&REC	0.00028245	0.00007094	0.00006068	0.00018222	0.00328183	0.00012969	0.00010909	0.00005805
96	OTH BUS SE	0.00185249	0.00663779	0.00202199	0.01119395	0.00835930	0.00620028	0.00195392	0.00423384
97	AUTO RENT, PK	0.00207220	0.00004341	0.00067486	0.00061584	0.00042233	0.00141635	0.00050919	0.00003176
98	REPAIR SER	0.00054105	0.00442371	0.00027339	0.00109703	0.00382982	0.00062224	0.00153711	0.00038372
99	PHYS&DEN	0.00002644	0.00000985	0.00008292	0.00001568	0.00007523	0.00000879	0.00001377	0.00001538
100	HOS&LAB SER	0.00023854	0.00043947	0.00053948	0.00025324	0.00046594	0.00026152	0.00023827	0.00022327
101	OTH MED SER	0.00000275	0.00000342	0.00000321	0.00000224	0.00000518	0.00000100	0.00000115	0.00000128
102	ELE&SECD SCH	0.00224022	0.00408980	0.00496814	0.00238095	0.00430583	0.00244055	0.00219949	0.00213352
103	COLL & UNIV	0.00028412	0.00030464	0.00028431	0.00028681	0.00039041	0.00020781	0.00032389	0.00187891
104	OTH ED SER	0.00002029	0.00003880	0.00004721	0.00002790	0.00004126	0.00002483	0.00002130	0.00001350
105	ENG & ARC	0.00004534	0.00007569	0.00001849	0.00005056	0.00030915	0.00002016	0.00004463	0.00002209
106	ACCT, ACD, &BK	0.00152592	0.00139769	0.00051302	0.00188951	0.00249654	0.00293023	0.00198688	0.00102049
107	OTH PROF SER	0.00016559	0.00010082	0.00009801	0.00094107	0.00181821	0.00009392	0.00095575	0.00017640
108	OTH SER	0.00070662	0.00097042	0.00019639	0.00156055	0.00093233	0.00080470	0.00126493	0.00128571
TOTAL		1.17585496	1.15132651	1.09876018	1.18466279	1.22686261	1.11419321	1.17369857	1.16866107

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

	33	34	35	36	37	38	39	40
1 COTTON	0.00000154	0.00000105	0.00000044	0.00000196	0.00000125	0.00000097	0.00000110	0.00000111
2 CASH GRAINS	0.00001197	0.00000856	0.00000600	0.00001030	0.00000570	0.00000491	0.00000518	0.00000538
3 OTHER GRAINS	0.00000530	0.00000383	0.00000174	0.00000539	0.00000296	0.00000255	0.00000277	0.00000277
4 RANGE LVSTK.	0.00000666	0.00001653	0.00000294	0.00000668	0.00000309	0.00000277	0.00000267	0.00000302
5 FEED LVSTK.	0.00000519	0.00001287	0.00000229	0.00000520	0.00000241	0.00000215	0.00000208	0.00000235
6 DAIRY	0.00004635	0.00002048	0.00001528	0.00004514	0.00002446	0.00002227	0.00002059	0.00002406
7 POULTRY&EGGS	0.00000893	0.00001868	0.00000487	0.00000796	0.00000378	0.00000333	0.00000333	0.00000365
8 AGSUP EXFAMA	0.00000259	0.00000288	0.00000111	0.00000245	0.00000129	0.00000114	0.00000113	0.00000124
9 AG SERVICES	0.00000204	0.00000167	0.00000079	0.00000197	0.00000107	0.00000094	0.00000092	0.00000103
10 PET&NAT GAS	0.00119551	0.00086457	0.00033878	0.00483534	0.00136074	0.00037477	0.00094664	0.00041257
11 OILFIELD SER	0.00006926	0.00004925	0.00001941	0.00188800	0.00008124	0.00002144	0.00005407	0.00003552
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000057	0.00000031	0.00000031	0.00000080	0.00000094	0.00000025	0.00000135	0.00000014
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000537	0.00000284	0.00000259	0.00035405	0.00007658	0.00000372	0.00001143	0.00000372
16 MAINT&REPAIR	0.00354562	0.00184678	0.00201236	0.00290913	0.00584329	0.00159500	0.00901177	0.00084270
17 MEAT PROD	0.00012474	0.00030953	0.00005499	0.00012516	0.00005790	0.00005181	0.00004993	0.00005662
18 DAIRY PROD	0.00012369	0.00004908	0.00004047	0.00012039	0.00006545	0.00005961	0.00005508	0.00006439
19 GRN MILLPRD	0.00003697	0.00002322	0.00002367	0.00002808	0.00001590	0.00001334	0.00001436	0.00001482
20 BAKERY PROD	0.00005100	0.00002103	0.00001223	0.00005290	0.00002886	0.00002662	0.00002397	0.00002870
21 OTHFOODPROD	0.00012378	0.00008441	0.00003540	0.00015753	0.00009998	0.00007791	0.00008827	0.00008881
22 TEXTILE MILL	0.00003440	0.00000834	0.00000107	0.00001098	0.00000257	0.00000122	0.00000391	0.00000550
23 FAB TEX MILL	0.00054924	0.00000646	0.00000427	0.00016228	0.00000985	0.00000361	0.00000705	0.00000503
24 LUM&WOOD PR	0.00043706	0.00070177	0.00012971	0.00109071	0.00032820	0.00010200	0.00047819	0.00020477
25 FURN & FIX	0.00009711	0.00030846	0.00003170	0.00006027	0.00007750	0.00003925	0.00013547	0.00020172
26 PAPER EX BOX	0.00090993	0.00050059	0.00022887	0.00043084	0.00012119	0.00015233	0.00015894	0.00057286
27 BOXS&CONTAIN	0.00406696	0.01013487	0.00029517	0.00823050	0.00168804	0.00065820	0.00042830	0.00073910
28 NEWSPAPERS	0.00039325	0.00014559	0.00004742	0.00023984	0.00017533	0.00007111	0.00029082	0.00011141
29 PUB&PRINTING	0.00169153	0.00101301	0.00182777	0.00139407	0.00103396	0.00043774	0.00100083	0.00069185
30 DRUGS, SPSECL	0.00010165	0.00027119	0.00002132	0.00006967	0.00001636	0.00000910	0.00002497	0.00000978
31 OTH CHEMICAL	0.02549926	0.00100382	0.02185441	0.00584340	0.00069553	0.00063145	0.00026760	0.00010045
32 PET REF	0.00007436	0.00004627	0.00003797	0.00013456	0.00002941	0.00004185	0.00008440	0.00002816
33 RUBBER PROD	1.00553189	0.00004276	0.00001577	0.00015133	0.00005240	0.00001325	0.00002374	0.00001054
34 PLASTIC PROD	0.00027693	1.00211556	0.00003925	0.00119478	0.00001005	0.00000957	0.00000897	0.00001279
35 LEATHER PROD	0	0	1.00532430	0	0	0	0	0
36 GLS, ST, CL&CN	0.00098391	0.00015891	0.00013349	1.06882453	0.00271153	0.00013155	0.00026586	0.00803407
37 PRIMARY MET	0.00436111	0.00025893	0.00016698	0.00490783	1.00190410	0.02415176	0.00046877	0.00013591
38 FAB STEEL	0.00000036	0.00000019	0.00000020	0.00000291	0.00000110	1.00000017	0.00000090	0.00000010
39 PLATE WORK	0.00091572	0.00000275	0.00000372	0.00000603	0.00000647	0.00000171	1.00090936	0.00000091
40 SH METAL&ARC	0.00013636	0.00203671	0.00000610	0.00022355	0.00015863	0.00000847	0.00002545	1.00000442
41 METAL DOORS	0.00002004	0.00001077	0.00001104	0.00001619	0.00003194	0.00000871	0.00004934	0.00000470
42 FAB MET PROD	0.00000449	0.00000310	0.00000127	0.00000566	0.00000359	0.00000281	0.00000317	0.00000319
43 PLU, HEAT&REF	0.00012082	0.00007802	0.00006173	0.00010113	0.00017753	0.00041584	0.00027279	0.00002627
44 ELECTROPLAT	0.00014246	0.00024752	0.00000364	0.00008448	0.00670312	0.00576080	0.00241990	0.00417967
45 DTH FAB MET	0.00156535	0.00162811	0.00006480	0.00066436	0.00006793	0.00003446	0.00058308	0.00023531
46 FM, CN, ID MA	0.00001298	0.00000123	0.00001064	0.00000854	0.00000141	0.00000064	0.00000158	0.00000042
47 MIN MACH	0.00000009	0.00000006	0.00000002	0.00000070	0.00000010	0.00000003	0.00000007	0.00000003
48 MET WK MACH	0.00007002	0.00127025	0.00001256	0.00002270	0.00002826	0.00000614	0.00254598	0.00000474
49 IND PRO MACH	0.00000191	0.00000105	0.00000182	0.00000747	0.00000126	0.00000066	0.00000122	0.00000098
50 ENG&GEN MACH	0.00018074	0.00030445	0.00000110	0.00022585	0.00000234	0.00000042	0.00000107	0.00000208
51 OTH MAC&EQUP	0.00096155	0.00165941	0.00001876	0.00002606	0.00001715	0.00000490	0.00002161	0.00000396
52 ELEC INS	0.00038176	0.00062501	0.00002767	0.00011240	0.00009261	0.00018215	0.00011061	0.00005774
53 ELEC COM	0.00005408	0.00006393	0.00000376	0.00001563	0.00001136	0.00001927	0.00001249	0.00000686
54 OTH ELEC APP	0.00001785	0.00000168	0.00000132	0.00001476	0.00000379	0.00000113	0.00000158	0.00000108
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000358	0.00000128	0.00000248	0.00000320	0.00000382	0.00000048	0.00000103	0.00000045
57 MOTOR VECH	0.00013541	0.00043122	0.00004911	0.00036768	0.00016604	0.00009860	0.00013181	0.00033123

58 OTH TRAN EQ	0.00000007	0.00000003	0.00000005	0.00000010	0.00000004	0.00000003	0.00000004	0.00000004	0.00000004
59 PROF, SC&CONT	0.00001121	0.00003843	0.00000394	0.00002775	0.00000621	0.00000727	0.00000554	0.00002692	0.00002692
60 OTH MFG	0.00006704	0.00023549	0.00001500	0.00023357	0.00004715	0.00001499	0.00002675	0.00001678	0.00001678
61 RAIL TRANS	0.00520525	0.00355469	0.00248092	0.01226544	0.01824843	0.00327983	0.00153351	0.00240801	0.00240801
62 INTERCITY TR	0.00001805	0.00000856	0.00000202	0.00035338	0.00000708	0.00000191	0.00000270	0.00002081	0.00002081
63 MOTOR TRANS	0.01026083	0.00507510	0.00497334	0.01829942	0.01681856	0.00270287	0.00594441	0.00204610	0.00204610
64 AIR TRANS	0.00038428	0.00013771	0.00026562	0.00034336	0.00040923	0.00005169	0.00011065	0.00004833	0.00004833
65 PIPE TRANS	0.00000126	0.00000079	0.00000064	0.00000229	0.00000356	0.00000071	0.00000143	0.00000048	0.00000048
66 LOCAL TRANS	0	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0.00019415	0.00010680	0.00016889	0.00010526	0.00015134	0.00022619	0.00025848	0.00011577	0.00011577
68 TELEP&TELEG	0.00376573	0.00402450	0.00210788	0.00642059	0.00332037	0.00363919	0.00224877	0.00338528	0.00338528
69 TV,RAD,COMM	0.00218155	0.00007096	0.00003128	0.00016943	0.00010817	0.00004056	0.00012221	0.00004421	0.00004421
70 GAS SERVICE	0.00740439	0.00539070	0.00206544	0.03017938	0.00845234	0.00233099	0.00589570	0.00257167	0.00257167
71 ELEC SERV	0.02218168	0.01163484	0.00683448	0.01954761	0.01975078	0.00388934	0.01036519	0.00240831	0.00240831
72 WT&SAN SER	0.00146453	0.00131501	0.00054732	0.00088879	0.00079429	0.00035630	0.00165410	0.00056928	0.00056928
73 WHL AUTO PTS	0.00037240	0.00026396	0.00023389	0.00078574	0.00034946	0.00023474	0.00048751	0.00019464	0.00019464
74 WHL GRO	0.00004851	0.00001973	0.00001483	0.00006235	0.00002591	0.00002358	0.00002190	0.00002557	0.00002557
75 WHL FM PROD	0.00000124	0.00000197	0.00000051	0.00000120	0.00000060	0.00000053	0.00000051	0.00000058	0.00000058
76 WHL MACH&EQP	0.00512242	0.00314227	0.00138800	0.00834657	0.00196504	0.00352487	0.00196931	0.00167515	0.00167515
77 WHL PETROLEM	0.00055857	0.00052729	0.00039188	0.00144067	0.00041118	0.00023048	0.00039810	0.00058113	0.00058113
78 GEN WHL	0.02665926	0.01444871	0.00121516	0.00474884	0.01063177	0.00260918	0.00362317	0.03322189	0.03322189
79 BLD MAT	0.00276512	0.00003632	0.00003705	0.00005775	0.00015170	0.00003006	0.00015858	0.00001595	0.00001595
80 RTL TRD-GEN	0.00000002	0.00000002	0.00000002	0.00000003	0.00000002	0.00000001	0.00000002	0.00000001	0.00000001
81 FOOD STORES	0.00000017	0.00000032	0.00000011	0.00000054	0.00000009	0.00000016	0.00000021	0.00000008	0.00000008
82 AUTO DL&REP	0.00095711	0.00137944	0.00029254	0.00326867	0.00053290	0.00055207	0.00147011	0.00112108	0.00112108
83 GAS SER STA	0.00199606	0.00011017	0.00008626	0.00023801	0.00035667	0.00035766	0.00012068	0.00012550	0.00012550
84 APP&ACCESS	0.00000005	0.00000000	0.00000000	0.00000004	0.00000009	0.00000000	0.00000000	0.00000002	0.00000002
85 FURNITURE	0.00000023	0.00000008	0.00000005	0.000001967	0.00000028	0.00000010	0.00000013	0.00000056	0.00000056
86 EAT&DRINK	0.00030645	0.00006163	0.00034141	0.00009096	0.00006108	0.00004204	0.00006752	0.00004934	0.00004934
87 OTH RETAIL	0.00386711	0.00042298	0.00001787	0.00028739	0.00003860	0.00002085	0.00001334	0.00000696	0.00000696
88 BK&CREDIT	0.00599889	0.00330466	0.00327913	0.00494718	0.00939587	0.00924416	0.01317148	0.00442909	0.00442909
89 INSURANCE	0.00301825	0.00332937	0.00271322	0.00317620	0.00640686	0.00423518	0.00480246	0.00417181	0.00417181
90 F.I.R.E	0.00611494	0.00611694	0.00207780	0.00616568	0.00235292	0.00151742	0.00316727	0.00359766	0.00359766
91 LEGAL SER	0.00224241	0.00045860	0.00133019	0.00204054	0.00103986	0.00173481	0.00373560	0.00064829	0.00064829
92 LODGE SER	0.00006445	0.00011217	0.00009747	0.00016738	0.00007126	0.00004191	0.00007881	0.00004992	0.00004992
93 PERSNL SER	0.00074599	0.00005449	0.00003116	0.00060833	0.00131687	0.00005053	0.00001921	0.00027144	0.00027144
94 ADV, DUP&AD	0.02304260	0.00518483	0.00884225	0.00270673	0.00134296	0.00177656	0.00334676	0.00051623	0.00051623
95 PHOTO&REC	0.00088003	0.00014584	0.00032615	0.00007411	0.00005371	0.00005142	0.00009034	0.00005223	0.00005223
96 OTH BUS SE	0.00663821	0.00222338	0.00042260	0.00406314	0.00484119	0.00184146	0.01271628	0.00168532	0.00168532
97 AUTO RENT,PK	0.00016277	0.00035394	0.00002481	0.00266398	0.00006400	0.00002032	0.00056439	0.00015284	0.00015284
98 REPAIR SER	0.00077746	0.01077041	0.00022193	0.00092225	0.00084115	0.00307605	0.00121468	0.00160151	0.00160151
99 PHYS&DEN	0.00001372	0.00001282	0.00001006	0.00007655	0.00009083	0.00001634	0.00001681	0.00001501	0.00001501
100 HOS&LAB SER	0.00052271	0.00022183	0.00013096	0.00056475	0.00030610	0.00028763	0.00026146	0.00030899	0.00030899
101 OTH MED SER	0.00000174	0.00000171	0.00000078	0.00000393	0.00000363	0.00000088	0.00000124	0.00000127	0.00000127
102 ELE&SECD SCH	0.00488096	0.00205666	0.00098431	0.00521921	0.00283862	0.00262896	0.00234627	0.00283167	0.00283167
103 COLL & UNIV	0.00035864	0.00019274	0.00033398	0.00073333	0.00027832	0.00022674	0.00031330	0.00030970	0.00030970
104 OTH ED SER	0.00004716	0.00006502	0.00000572	0.00005094	0.00002703	0.00002013	0.00000862	0.00002661	0.00002661
105 ENG & ARC	0.00003879	0.00009598	0.00001152	0.00030408	0.00001813	0.00050863	0.00001717	0.00002007	0.00002007
106 ACCT,ACD,&BK	0.00146587	0.00117169	0.00192273	0.00156281	0.00134880	0.00092408	0.00062832	0.00124837	0.00124837
107 OTH PROF SER	0.00156276	0.00017644	0.00021470	0.00081859	0.00015201	0.00009707	0.00015156	0.00007780	0.00007780
108 OTH SER	0.00077836	0.00030171	0.00019331	0.00089129	0.00088854	0.00038001	0.00046826	0.00159915	0.00159915
TOTAL	1.21025272	1.11732656	1.07970803	1.25115918	1.14051299	1.09252302	1.10427299	1.09161616	1.09161616

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

	41	42	43	44	45	46	47	48
1 COTTON	0.00000142	0.00000109	0.00000063	0.00000350	0.00000142	0.00000114	0.00000126	0.00000170
2 CASH GRAINS	0.00000793	0.00001268	0.00000407	0.00000806	0.00001320	0.00000943	0.00000532	0.00001560
3 OTHER GRAINS	0.00000387	0.00000386	0.00000190	0.00000405	0.00000479	0.00000353	0.00000291	0.00000563
4 RANGE LVSTK.	0.00000439	0.00000603	0.00000241	0.00000369	0.00000669	0.00000475	0.00000292	0.00000775
5 FEED LVSTK.	0.00000342	0.00000469	0.00000187	0.00000287	0.00000521	0.00000369	0.00000228	0.00000604
6 DAIRY	0.00003366	0.00003372	0.00001554	0.00002726	0.00004223	0.00003074	0.00002398	0.00004989
7 POULTRY&EGGS	0.00000554	0.00001000	0.00000312	0.00000477	0.00001009	0.00000709	0.00000344	0.00001182
8 AGSUP EXFAMA	0.00000178	0.00000236	0.00000090	0.00000170	0.00000263	0.00000189	0.00000123	0.00000310
9 AG SERVICES	0.00000145	0.00000171	0.00000070	0.00000147	0.00000199	0.00000144	0.00000103	0.00000235
10 PET&NAT GAS	0.00043264	0.00060088	0.00032604	0.00150386	0.00057785	0.00039304	0.00040648	0.00052881
11 OILFIELD SER	0.00002467	0.00003449	0.00001870	0.00008563	0.00003304	0.00002287	0.00002327	0.00003019
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000036	0.00000038	0.00000055	0.00000079	0.00000029	0.00000045	0.00000053	0.00000068
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000320	0.00000438	0.00000497	0.00000648	0.00000430	0.00000677	0.00000450	0.00000577
16 MAINT&REPAIR	0.00234891	0.00241132	0.00370086	0.00501320	0.00178096	0.00297518	0.00351501	0.00451746
17 MEAT PROD	0.00008229	0.00011286	0.00004506	0.00006908	0.00012526	0.00008887	0.00005476	0.00014520
18 DAIRY PROD	0.00009002	0.00008950	0.00004139	0.00007283	0.00011243	0.00008190	0.00006421	0.00013290
19 GRN MILLPRD	0.00002294	0.00004925	0.00001219	0.00002665	0.00004689	0.00003305	0.00001407	0.00005559
20 BAKERY PROD	0.00003917	0.00002445	0.00001734	0.00003075	0.00004170	0.00002951	0.00002893	0.00004548
21 OTHFOODPRD	0.00011409	0.00008744	0.00005085	0.00028098	0.00011402	0.00009122	0.00010114	0.00013614
22 TEXTILE MILL	0.00000139	0.00000162	0.00000467	0.00000742	0.00000338	0.00000202	0.00000264	0.00000226
23 FAB TEX MILL	0.00000563	0.00000788	0.00000703	0.00001064	0.00000721	0.00000683	0.00000540	0.00001175
24 LUM&WOOD PR	0.00019816	0.00021081	0.00030955	0.00040683	0.00029586	0.00019851	0.00022677	0.00024143
25 FURN & FIX	0.00004101	0.00004503	0.00016505	0.00026333	0.00011446	0.00006296	0.00008995	0.00006103
26 PAPER EX BOX	0.00033532	0.00202507	0.00051469	0.00064044	0.00038337	0.00061484	0.00017524	0.00008377
27 BOXS&CONTAIN	0.01049473	0.00990438	0.00045332	0.00013074	0.00284486	0.00090217	0.00008268	0.00004601
28 NEWSPAPERS	0.00019307	0.00010952	0.00014606	0.00015312	0.00014844	0.00021218	0.00013682	0.00014976
29 PUB&PRINTING	0.00203013	0.00527974	0.00329398	0.00100772	0.00203435	0.00169649	0.00374704	0.00128016
30 DRUGS,SPS&CL	0.00001405	0.00002854	0.00001906	0.00001293	0.00001587	0.00001489	0.00001450	0.00001939
31 OTH CHEMICAL	0.00018032	0.01700105	0.00494219	0.00021474	0.00092789	0.00226286	0.00087862	0.00014883
32 PET REF	0.00004522	0.00007435	0.00005948	0.00005691	0.00007193	0.00007877	0.00003530	0.00008516
33 RUBBER PROD	0.00001545	0.00067600	0.00649254	0.00009007	0.00003355	0.00017406	0.00056971	0.00002268
34 PLASTIC PROD	0.00001989	0.00634803	0.01638650	0.00000932	0.00029580	0.00001006	0.00001190	0.00000646
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00009592	0.00028334	0.00014075	0.00024912	0.00018488	0.00038711	0.00015312	0.00014029
37 PRIMARY MET	0.00292869	0.01798049	0.00202569	0.00030506	0.02879717	0.04154782	0.00022233	0.00072278
38 FAB STEEL	0.00000024	0.00000025	0.00000037	0.00000050	0.00000019	0.00000032	0.00000035	0.00000045
39 PLATE WORK	0.00000245	0.00000440	0.00001007	0.00000525	0.00000196	0.00006278	0.00000420	0.00000472
40 SH METAL&ARC	0.00000788	0.01179773	0.00125734	0.00001465	0.00001016	0.00001456	0.00001018	0.00001292
41 METAL DOORS	1.00299981	0.00001438	0.00003012	0.00002742	0.00042815	0.00001646	0.00001918	0.00002511
42 FAB MET PROD	0.00000409	1.00000314	0.00000196	0.00001010	0.00000410	0.00000334	0.00000364	0.00000488
43 PLU,HEAT&REF	0.00007201	0.00007452	1.00011285	0.00015188	0.00005496	0.00009099	0.00011020	0.00013872
44 ELECTROPLAT	0.00849430	0.01117640	0.00091553	1.00142184	0.02073084	0.00081501	0.00002313	0.00368529
45 OTH FAB MET	0.05485266	0.00267396	0.02377297	0.00021892	1.00249396	0.00029354	0.00006669	0.00001163
46 FM,CN, ID MA	0.00000068	0.00000854	0.00000285	0.00000193	0.00000129	1.00012646	0.00000109	0.00000094
47 MIN MACH	0.00000003	0.00000004	0.00000002	0.00000011	0.00000004	0.00000003	1.00000003	0.00000004
48 MET WK MACH	0.00391705	0.00002514	0.00003590	0.00000907	0.00020599	0.00197063	0.00509604	1.00087229
49 IND PROD MACH	0.00000186	0.00000421	0.00000256	0.00000118	0.00000196	0.00000163	0.00000286	0.00000151
50 ENG&GEN MACH	0.00000091	0.00000428	0.00000719	0.00000112	0.00000141	0.00000203	0.00000099	0.00000571
51 OTH MAC&EQUP	0.00002150	0.00004273	0.00000462	0.00001347	0.00001096	0.00001114	0.00001119	0.00001195
52 ELEC INS	0.00004372	0.00004649	0.00117762	0.00034033	0.00018690	0.00058525	0.00019552	0.00005865
53 ELEC COM	0.00000626	0.00000680	0.00011783	0.00003669	0.00002097	0.00006048	0.00002082	0.00000909
54 OTH ELEC APP	0.00000173	0.00000487	0.00000165	0.00000197	0.00000280	0.00000394	0.000004650	0.00000198
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000154	0.00000565	0.00000186	0.00000108	0.00000284	0.00000583	0.00000070	0.00002160
57 MOTOR VECH	0.00008480	0.00024833	0.00011365	0.00088825	0.00051948	0.00160976	0.00044413	0.00045265

58	OTH TRAN EQ	0.00000005	0.00000006	0.00000004	0.00000003	0.00000005	0.00000004	0.00000003	0.00000006
59	PROF, SC&CONT	0.00000932	0.00000611	0.00000531	0.00000582	0.00002419	0.00000621	0.00000723	0.00000863
60	OTH MFG	0.00002989	0.00002908	0.00006690	0.00002219	0.00005531	0.00010919	0.00006775	0.00002811
61	RAIL TRANS	0.00299640	0.00619943	0.00340559	0.00196613	0.00648085	0.00619810	0.00086360	0.00556118
62	INTERCITY TR	0.00000299	0.00043674	0.00001211	0.00001876	0.00001058	0.00000556	0.00000521	0.00000185
63	MOTOR TRANS	0.00401816	0.02244881	0.00527472	0.00360000	0.00934563	0.02231104	0.00497733	0.00561998
64	AIR TRANS	0.00016564	0.00060587	0.00019991	0.00011560	0.00030437	0.00062498	0.00007508	0.00231671
65	PIPE TRANS	0.00000077	0.00000126	0.00000101	0.00000097	0.00000122	0.00000134	0.00000060	0.00000145
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WAREHOUS TR	0.00044390	0.00050450	0.00027560	0.00013185	0.00059748	0.00018370	0.00022544	0.00004884
68	TELEP&TELEG	0.00550808	0.00574505	0.00263633	0.00683342	0.00688035	0.00468844	0.00321260	0.00696934
69	TV,RAD,COMM	0.00006869	0.00006008	0.00006033	0.00010408	0.00008129	0.00018284	0.00006414	0.00007065
70	GAS SERVICE	0.00269274	0.00370421	0.00201357	0.00938563	0.00359231	0.00243282	0.00253033	0.00328404
71	ELEC SERV	0.00592495	0.00695102	0.00290655	0.02266479	0.00831848	0.00867401	0.00883964	0.01140082
72	WT&SAN SER	0.00081317	0.00053875	0.00053875	0.00343270	0.00168243	0.00064740	0.00071176	0.00078892
73	WHL AUTO PTS	0.00027137	0.00059220	0.00025943	0.00023058	0.00032986	0.00148708	0.00105905	0.00027338
74	WHL GRO	0.00003581	0.00003519	0.00001641	0.00002822	0.00004288	0.00003219	0.00002547	0.00005273
75	WHL FM PROD	0.00000084	0.00000106	0.00000043	0.00000073	0.00000121	0.00000087	0.00000057	0.00000141
76	WHL MACH&EQP	0.00106263	0.00257643	0.00082610	0.00619959	0.00575703	0.00502110	0.00380139	0.01343750
77	WHL PETROLEM	0.00037834	0.00164895	0.00049648	0.00066521	0.00048161	0.00125734	0.00020603	0.00084017
78	GEN WHL	0.00360401	0.01480708	0.02036416	0.03379150	0.01826776	0.00873253	0.00842278	0.00202739
79	BLD MAT	0.00004288	0.00009154	0.00008269	0.00009307	0.00003535	0.00007749	0.00006484	0.00008188
80	RTL TRD-GEN	0.00000002	0.00000006	0.00000004	0.00000002	0.00000003	0.00000002	0.00000004	0.00000002
81	FOOD STORES	0.00000010	0.00000023	0.00000005	0.00000050	0.00000039	0.00000071	0.00000007	0.00000019
82	AUTO DL&REP	0.00107661	0.00074389	0.00045246	0.00153033	0.00156220	0.00116738	0.00028913	0.00077142
83	GAS SER STA	0.00098189	0.00051359	0.00017739	0.00038822	0.00028816	0.00050349	0.00007944	0.00053400
84	APP&ACCESS	0.00000000	0.00000002	0.00000000	0.00000000	0.00000001	0.00000001	0.00000000	0.00000000
85	FURNITURE	0.00000087	0.00000008	0.00000007	0.00000011	0.00000008	0.00000016	0.00000007	0.00000047
86	EAT&DRINK	0.00012361	0.00069937	0.00008712	0.00012599	0.00055433	0.00037784	0.00002633	0.00066823
87	OTH RETAIL	0.00001903	0.00002586	0.00007875	0.00001305	0.00015601	0.00026663	0.00000903	0.00001646
88	BK&CREDIT	0.01649115	0.00643474	0.00710976	0.00651872	0.00826373	0.00547330	0.00740250	0.00790087
89	INSURANCE	0.00818886	0.01474292	0.00124493	0.01455144	0.00725243	0.01126291	0.00059038	0.00859422
90	F.I.R.E	0.01558439	0.00387771	0.00419004	0.00361560	0.00527040	0.00650033	0.00222115	0.01037620
91	LEGAL SER	0.00094478	0.00090971	0.00049112	0.00532225	0.00187475	0.01140816	0.00071563	0.00086067
92	LDGE SER	0.00011283	0.00115647	0.00004469	0.00012656	0.00047709	0.00054510	0.00003696	0.00122806
93	PERSNL SER	0.00003112	0.00033095	0.00004861	0.00002151	0.00007894	0.00013467	0.00001150	0.00003743
94	ADV, DUP&AD	0.00540616	0.00263226	0.01077889	0.00235883	0.00186207	0.00424492	0.00091883	0.00123770
95	PHOTO&REC	0.00014485	0.00009112	0.00025290	0.00009019	0.00007115	0.00010635	0.00004668	0.00006460
96	OTH BUS SE	0.00299134	0.00149853	0.00451956	0.00197697	0.00233304	0.00233687	0.00497121	0.00243342
97	AUTO RENT,PK	0.00023646	0.00015922	0.00017848	0.00014594	0.00373359	0.00182673	0.00004224	0.00003568
98	REPAIR SER	0.00130821	0.00370869	0.00069172	0.00913154	0.00902353	0.00659398	0.00104912	0.00229300
99	PHYS&DEN	0.00002941	0.00005275	0.00000523	0.00005015	0.00002737	0.00004173	0.00000252	0.00003365
100	HOS&LAB SER	0.00043599	0.00021454	0.00018041	0.00029712	0.00040428	0.00029803	0.00031133	0.00043744
101	OTH MED SER	0.00000425	0.00000263	0.00000105	0.00000249	0.00000204	0.00000279	0.00000055	0.00000332
102	ELE&SECD SCH	0.00382504	0.00195608	0.00167138	0.00298037	0.00378009	0.00268485	0.00287033	0.00407853
103	COLL & UNIV	0.00033372	0.00042089	0.00023381	0.00021960	0.00038805	0.00032101	0.00024219	0.00042692
104	OTH ED SER	0.00005471	0.00002574	0.00006863	0.00001584	0.00002729	0.00003122	0.00002938	0.00005104
105	ENG & ARC	0.00007761	0.00002173	0.00003461	0.00001885	0.00002696	0.00005481	0.00370774	0.00005206
106	ACCT, ACD, &BK	0.00351779	0.00232583	0.00106503	0.00083111	0.00346978	0.00142216	0.00054807	0.00408620
107	OTH PROF SER	0.00023965	0.00027779	0.00023413	0.00025943	0.00016219	0.00027576	0.00006641	0.00577752
108	OTH SER	0.00332845	0.00030294	0.00025741	0.00039706	0.00030549	0.00058684	0.00023984	0.00180037
TOTAL		1.18389376	1.20003389	1.14035961	1.15413245	1.17744869	1.17933045	1.07825633	1.12065872

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

	49	50	51	52	53	54	55	56
1 COTTON	0.00000118	0.00000050	0.00000106	0.00000173	0.00000132	0.00000121	0.00000125	0.00000031
2 CASH GRAINS	0.00000412	0.00000375	0.00000937	0.00000703	0.00000506	0.00000646	0.00000646	0.0000163
3 OTHER GRAINS	0.00000212	0.00000148	0.00000341	0.00000372	0.00000270	0.00000331	0.00000343	0.00000081
4 RANGE LVSTK.	0.00000214	0.00000198	0.00000457	0.00000376	0.00000277	0.00000499	0.00000383	0.00000090
5 FEED LVSTK.	0.00000166	0.00000154	0.00000356	0.00000293	0.00000216	0.00000389	0.00000298	0.00000070
6 DAIRY	0.00001714	0.00001278	0.00002664	0.00002908	0.00002261	0.00002579	0.00003045	0.00000691
7 POULTRY&EGGS	0.00000264	0.00000284	0.00000710	0.00000460	0.00000330	0.00000592	0.00000448	0.00000112
8 AGSUP EXFAMA	0.00000092	0.00000077	0.00000180	0.00000157	0.00000117	0.00000158	0.00000153	0.00000037
9 AG SERVICES	0.00000078	0.00000060	0.00000133	0.00000131	0.00000099	0.00000121	0.00000127	0.00000030
10 PET&NAT GAS	0.00040070	0.00067901	0.00050462	0.00040648	0.00026913	0.00103351	0.00014868	0.00031708
11 OILFIELD SER	0.00002310	0.00006898	0.00002974	0.00002365	0.00001568	0.00005985	0.00000875	0.00001831
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000110	0.00000019	0.00000025	0.00000123	0.00000086	0.00000055	0.00000063	0.00000074
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000983	0.00001030	0.00020782	0.00013634	0.00124400	0.00002163	0.00002418	0.00000890
16 MAINT&REPAIR	0.00744414	0.00106381	0.00086313	0.000794384	0.00162901	0.00343946	0.00422283	0.00501261
17 MEAT PROD	0.00004001	0.00003714	0.00008555	0.00007037	0.00005197	0.00009352	0.00007165	0.00001693
18 DAIRY PROD	0.00004588	0.00003405	0.00007079	0.00007776	0.00006053	0.00006829	0.00008149	0.00001847
19 GRN MILLPRD	0.00001205	0.00001274	0.00003389	0.00001973	0.00001390	0.00001770	0.00001693	0.00000467
20 BAKERY PROD	0.00001870	0.00001352	0.00002655	0.00003412	0.00002588	0.00002913	0.00003606	0.00000808
21 OTHFOODPROD	0.00009431	0.00004036	0.00008464	0.00013909	0.00010577	0.00009726	0.00010023	0.00002519
22 TEXTILE MILL	0.00000360	0.00000208	0.00000137	0.00000400	0.00000381	0.00000452	0.00000405	0.00000167
23 FAB TEX MILL	0.00000530	0.00000770	0.00000618	0.00000876	0.00000730	0.000003950	0.00001853	0.00000228
24 LUM&WOOD PR	0.00496921	0.00020424	0.00118352	0.00057987	0.00051450	0.00028029	0.00043735	0.00040343
25 FURN & FIX	0.00012732	0.00006339	0.00003932	0.00013529	0.00013118	0.00008627	0.00011501	0.00005970
26 PAPER EX BOX	0.00089008	0.00040808	0.00016188	0.00027997	0.00026710	0.00024264	0.00057089	0.0004237
27 BOXS&CONTAIN	0.00011978	0.01398396	0.00007329	0.00088945	0.00066450	0.00177882	0.00077583	0.00009095
28 NEWSPAPERS	0.00008399	0.00008172	0.00026764	0.00029136	0.00012252	0.00023345	0.00018500	0.00005231
29 PUB&PRINTING	0.00277038	0.00129379	0.00169693	0.00408948	0.00262470	0.00306963	0.00537461	0.00096152
30 DRUGS,SPS&CL	0.00000970	0.00000771	0.00002266	0.00003734	0.00016197	0.00006424	0.00012057	0.00000394
31 OTH CHEMICAL	0.00071580	0.00023175	0.00018033	0.00278995	0.01847939	0.01653452	0.00153809	0.00015619
32 PET REF	0.00009374	0.00003611	0.00002722	0.00013948	0.00004472	0.00012410	0.00004645	0.00005489
33 RUBBER PROD	0.00003661	0.00006364	0.00011289	0.00021924	0.00003039	0.00034753	0.000302251	0.00001162
34 PLASTIC PROD	0.00002751	0.00007578	0.00031363	0.000301669	0.00042613	0.12607023	0.00214406	0.00074111
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00025720	0.02019279	0.00074764	0.00040087	0.00028212	0.00083389	0.00021443	0.00022330
37 PRIMARY MET	0.00366109	0.00430502	0.00150136	0.06135582	0.00198821	0.24780462	0.00308589	0.03730700
38 FAB STEEL	0.00000074	0.00000017	0.00000163	0.00000173	0.00000946	0.00000047	0.00000056	0.00000052
39 PLATE WORK	0.00066130	0.00238441	0.00000214	0.00001504	0.00005029	0.00000529	0.00070219	0.00000517
40 SH METAL&ARC	0.00003240	0.00384755	0.02087629	0.00010489	0.00069045	0.00030196	0.00019336	0.00002087
41 METAL DOORS	0.00004066	0.00000804	0.00000497	0.00004774	0.00001203	0.00001941	0.00002397	0.00002734
42 FAB MET PROD	0.00000355	0.00000342	0.00000382	0.00012345	0.00120884	0.00000353	0.00018911	0.00000091
43 PLU,HEAT&REF	0.00023012	0.00003777	0.01314083	0.00028524	0.00049622	0.00010911	0.00116913	0.00015153
44 ELECTROPLAT	0.00199642	0.00706318	0.00012705	0.00212303	0.00067940	0.00263886	0.00065927	0.00055408
45 OTH FAB MET	0.00009036	0.00522865	0.00039419	0.00098172	0.00675458	0.00126119	0.00188069	0.00001292
46 FM,CN,TD MA	0.00011884	0.00000074	0.00000066	0.00000236	0.00000909	0.00000883	0.00025285	0.00000070
47 MIN MACH	0.00000003	0.00000006	0.00000004	0.00000003	0.00000002	0.00000008	0.00000001	0.00000002
48 MET WK MACH	0.00646614	0.00016081	0.00207921	0.00004599	0.00021295	0.00018264	0.00060698	0.00000807
49 IND PRO MACH	1.00950416	0.00000135	0.00000163	0.00000655	0.00003647	0.00000277	0.00047498	0.00000092
50 ENG&GEN MACH	0.00268626	1.00019499	0.00000198	0.00001163	0.00006663	0.00004089	0.00002832	0.00000111
51 OTH MAC&EQUP	0.00003953	0.00003207	1.00791356	0.00055282	0.00533221	0.00028690	0.00052248	0.00001362
52 ELEC INS	0.00142412	0.01576040	0.00540207	1.00067255	0.00170139	0.00042954	0.00211202	0.00004561
53 ELEC COM	0.00014310	0.00164940	0.00066501	0.09914220	1.00838530	0.00004545	0.01505029	0.00000584
54 OTH ELEC APP	0.00012147	0.000000454	0.000000226	0.00012334	0.00123250	1.00280820	0.00018048	0.00000212
55 AIRCRAFT&ORD	0	0	0	0	0	0	1.00040151	0
56 AIRCRAFT PAR	0.00000368	0.00000260	0.00000444	0.00001355	0.00001422	0.00000654	0.04262599	1.00000181
57 MOTOR VECH	0.00029558	0.00016154	0.00040431	0.00016498	0.00006403	0.00021993	0.00020369	0.00005843

58	OTH TRAN EQ	0.00000009	0.00002111	0.00000004	0.00000004	0.00000003	0.00000005	0.00002348	0.00000002
59	PROF, SC&CONT	0.00001457	0.000301450	0.00000924	0.00029310	0.00291326	0.00001157	0.00177408	0.00000212
60	OTH MFG	0.00004998	0.00005187	0.00004372	0.00079898	0.00010404	0.00012542	0.00002807	0.00004287
61	RAIL TRANS	0.00395288	0.00309947	0.00214994	0.00854699	0.00275144	0.01085013	0.00147761	0.00173999
62	INTERCITY TR	0.00133649	0.00001198	0.00000305	0.00000536	0.00000506	0.00000434	0.00000495	0.00000166
63	MOTOR TRANS	0.00374747	0.00881211	0.00415523	0.00453836	0.00144696	0.00621384	0.00063594	0.00183342
64	AIR TRANS	0.00039463	0.00027834	0.00047651	0.00145333	0.00152465	0.00070175	0.00088152	0.00019365
65	PIPE TRANS	0.00000159	0.00000061	0.00000046	0.00000237	0.00000076	0.00000211	0.00000079	0.00000093
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00042245	0.00008235	0.00006733	0.00018040	0.00091519	0.00009492	0.00033974	0.00263063
68	TELEP&TELEG	0.00444761	0.00819151	0.00547628	0.01025633	0.00281283	0.00464283	0.00130564	0.00432320
69	TV,RAD,COMM	0.00005699	0.00005513	0.00010406	0.00009881	0.00003807	0.00010907	0.00005069	0.00002207
70	GAS SERVICE	0.00248000	0.00423489	0.00314712	0.00250078	0.00163501	0.00639701	0.00091484	0.00196807
71	ELEC SERV	0.00786496	0.00867415	0.00901255	0.00490251	0.00736970	0.01928935	0.00223287	0.00325553
72	WT&SAN SER	0.00055232	0.00094438	0.00096474	0.00037231	0.00037231	0.00167395	0.00019030	0.00042128
73	WHL AUTO PTS	0.00026988	0.00034306	0.00040051	0.00134194	0.00023773	0.00031020	0.00007350	0.00025759
74	WHL GRO	0.00001914	0.00001362	0.00002595	0.00003080	0.00002407	0.00002716	0.00003431	0.00000731
75	WHL FM PROD	0.00000042	0.00000036	0.00000081	0.00000072	0.00000054	0.00000085	0.00000073	0.00000017
76	WHL MACH&EQP	0.00843291	0.00189376	0.00710733	0.00285327	0.00049799	0.00217096	0.00437019	0.00187272
77	WHL PETROLEM	0.00024763	0.00027727	0.00013860	0.00036458	0.00028570	0.00029584	0.00057974	0.00009976
78	GEN WHL	0.00653959	0.00890993	0.00364859	0.00738200	0.00637049	0.00590764	0.00350275	0.00246471
79	BLD MAT	0.00013528	0.00002211	0.00001914	0.00014868	0.00003987	0.00007691	0.00018682	0.00008932
80	RTL TRD-GEN	0.00000010	0.00000002	0.00000004	0.00000053	0.00000489	0.00000004	0.00000431	0.00000002
81	FDDO STORES	0.00000028	0.00000015	0.00000016	0.00000010	0.00000028	0.00002909	0.00000086	0.00000006
82	AUTO DL&REP	0.00065216	0.00081788	0.00069152	0.00055634	0.00020523	0.00055858	0.00010823	0.00023467
83	GAS SER STA	0.00020743	0.00011968	0.00029356	0.00017238	0.00008007	0.00018884	0.00006029	0.00005206
84	APP&ACCESS	0.00000005	0.00000004	0.00000003	0.00000002	0.00000007	0.00005788	0.00000002	0.00000000
85	FURNITURE	0.00000016	0.00000016	0.00000016	0.00000333	0.00003263	0.00000017	0.00000198	0.00000006
86	EAT&DRINK	0.00004679	0.00013103	0.00042386	0.00007403	0.00003281	0.00006660	0.00003343	0.00002201
87	OTH RETAIL	0.00001322	0.00005486	0.00004218	0.00008225	0.00002435	0.00010448	0.00023442	0.00011384
88	BK&CREDIT	0.01169364	0.00453507	0.00678457	0.02423707	0.00774599	0.01596592	0.00172896	0.00196331
89	INSURANCE	0.00351001	0.00128249	0.00201616	0.00302959	0.00081294	0.00434744	0.00215388	0.00152285
90	F.I.R.E	0.00182305	0.00209953	0.00544123	0.01261680	0.01053198	0.00771719	0.00223374	0.00309804
91	LEGAL SER	0.00156977	0.00162448	0.00201175	0.00165554	0.00492248	0.00179134	0.00022623	0.00042456
92	LODGE SER	0.00030411	0.00006922	0.00006451	0.00008085	0.00007068	0.00007532	0.00006289	0.00002106
93	PERSNL SER	0.00065134	0.00057638	0.00038152	0.00012999	0.00003250	0.00037327	0.00007724	0.00005844
94	ADV, DUPEAD	0.00154544	0.00115849	0.00501025	0.00509695	0.00100138	0.00375980	0.00130536	0.00132949
95	PHOTO&REC	0.00008903	0.00011488	0.00014697	0.00018893	0.00017969	0.00012572	0.00035743	0.00003804
96	OTH BUS SE	0.00110720	0.00096993	0.01154032	0.00907816	0.00154644	0.00693534	0.00161554	0.00082918
97	AUTO RENT,PK	0.00021300	0.00022522	0.00004348	0.00130418	0.00039475	0.00046690	0.00019651	0.00001702
98	REPAIR SER	0.00756863	0.00181539	0.00034369	0.00032915	0.00018471	0.00233114	0.00024122	0.00116751
99	PHYS&DEN	0.00045095	0.00054054	0.00001376	0.00002502	0.00004881	0.00101869	0.00002356	0.00000876
100	HOSE&LAB SER	0.00020881	0.00013798	0.00024853	0.00035025	0.00027279	0.00031072	0.00057492	0.00008467
101	OTH MED SER	0.00001599	0.00001915	0.00000160	0.00000348	0.00000387	0.00003687	0.00000128	0.00000095
102	ELE&SECD SCH	0.00183355	0.00125920	0.00235728	0.00335531	0.00256110	0.00286190	0.00357234	0.00079156
103	COLL & UNIV	0.00021875	0.00018885	0.00030129	0.00029987	0.00022535	0.00038178	0.00046280	0.00018305
104	OTH ED SER	0.00000839	0.00001146	0.00002677	0.00004254	0.00002277	0.00002472	0.000003139	0.00000576
105	ENG & ARC	0.00519248	0.00411626	0.00483913	0.00008812	0.00029036	0.00004951	0.00078093	0.00001642
106	ACCT, ACD, &BK	0.00196661	0.00144755	0.00182430	0.00234722	0.00045562	0.00336864	0.00022681	0.00048055
107	OTH PROF SER	0.00830662	0.00894173	0.00895093	0.00750134	0.00044017	0.00398571	0.00035310	0.00108837
108	OTH SER	0.00058279	0.00059114	0.00046333	0.00054491	0.00104190	0.00056640	0.00093516	0.00022288
TOTAL		1.13649954	1.16126749	1.15054188	1.31831255	1.11867576	1.52720700	1.12589345	1.08147017

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

	57	58	59	60	61	62	63	64
1 COTTON	0.00000036	0.00000114	0.00000103	0.00000274	0.00002476	0.00000160	0.00000264	0.00000068
2 CASH GRAINS	0.00000166	0.00000577	0.00000604	0.00000920	0.00003125	0.00001006	0.00001401	0.00000497
3 OTHER GRAINS	0.00000086	0.00000276	0.00000296	0.00000478	0.00001825	0.00000417	0.00000598	0.00000199
4 RANGE LVSTK.	0.00000089	0.00000292	0.00000333	0.00000483	0.00001117	0.00000534	0.00000725	0.00000262
5 FEED LVSTK.	0.00000069	0.00000227	0.00000259	0.00000376	0.00000869	0.00000416	0.00000565	0.00000204
6 DAIRY	0.00000733	0.00002074	0.00002655	0.00003793	0.00008856	0.00003557	0.00004992	0.00001686
7 POULTRY&EGGS	0.00000108	0.00000391	0.00000418	0.00000588	0.00001313	0.00000743	0.00000999	0.00000375
8 AGSUP EXFAMA	0.00000038	0.00000121	0.00000137	0.00000206	0.00000643	0.00000211	0.00000293	0.00000102
9 AG SERVICES	0.00000032	0.00000097	0.00000112	0.00000175	0.00000617	0.00000165	0.00000233	0.00000079
10 PET&NAT GAS	0.00018895	0.00047579	0.00031405	0.00077330	0.00084316	0.00069047	0.00041734	0.00029049
11 OILFIELD SER	0.00001085	0.00002821	0.00001800	0.00004999	0.00005181	0.00003936	0.00002392	0.00001783
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000033	0.00000070	0.00000015	0.00000116	0.00001339	0.00000046	0.00000073	0.00000503
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000298	0.00001250	0.00000149	0.00001242	0.00011747	0.00000381	0.00000622	0.00004409
16 MAINT&REPAIR	0.00224157	0.00465565	0.00094277	0.00772475	0.09185473	0.00294185	0.00488238	0.03448580
17 MEAT PROD	0.00001667	0.00005463	0.00006230	0.00009050	0.00020915	0.00010006	0.00013584	0.00004912
18 DAIRY PROD	0.00001962	0.00005537	0.00007106	0.00010147	0.00023697	0.00009484	0.00013318	0.00004492
19 GRN MILLPRD	0.00000461	0.00001774	0.00001720	0.00002686	0.00010888	0.00003333	0.00004613	0.00001675
20 BAKERY PROD	0.00000807	0.00002307	0.00002883	0.00004493	0.00010439	0.00003811	0.00005372	0.00001750
21 OTHFOODPROD	0.00002915	0.00009127	0.00008256	0.00021988	0.00198513	0.00012844	0.00021157	0.00005473
22 TEXTILE MILL	0.00000106	0.00117529	0.00000410	0.00000581	0.00002737	0.00000334	0.00000359	0.00010502
23 FAB TEX MILL	0.00000465	0.00015131	0.00006225	0.00001004	0.00001327	0.00001505	0.00001091	0.00161397
24 LUM&WOOD PR	0.00018531	0.00911013	0.00009398	0.00049810	0.00486304	0.00019852	0.00028273	0.00206154
25 FURN & FIX	0.00003046	0.04516468	0.00001881	0.00020239	0.00102973	0.00009537	0.00011455	0.00043725
26 PAPER EX BOX	0.00004342	0.00267829	0.00020310	0.00371933	0.00024918	0.00053561	0.00054506	0.00045189
27 BOX&CONTAIN	0.00081705	0.00088469	0.00181283	0.00031737	0.00027444	0.00022419	0.00087244	0.00016263
28 NEWSPAPERS	0.00006084	0.00044724	0.00009513	0.00020252	0.00035496	0.00043605	0.00063145	0.00013628
29 PUB&PRINTING	0.00027957	0.00106604	0.00576089	0.00221238	0.00246404	0.01315901	0.00609057	0.00189347
30 DRUGS, SPS&CL	0.00000787	0.00002479	0.00001177	0.00001702	0.00004222	0.00002276	0.00002453	0.00006404
31 OTH CHEMICAL	0.00054453	0.00374544	0.00244412	0.00036596	0.00217394	0.00073711	0.00050429	0.00107454
32 PET REF	0.00006400	0.00007262	0.00003804	0.00010301	0.00980235	0.00003457	0.00005030	0.00027872
33 RUBBER PROD	0.00462892	0.01218236	0.00005193	0.00005643	0.00025310	0.00923385	0.00263313	0.00003407
34 PLASTIC PROD	0.00000509	0.00005680	0.00027040	0.00049081	0.00008355	0.00018831	0.00002375	0.00008280
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0.00009112	0.00082108	0.00012686	0.00407061	0.00265875	0.00014399	0.00017399	0.00090441
37 PRIMARY MET	0.00158025	0.08673677	0.00080546	0.02019344	0.02482268	0.00059671	0.00032621	0.00335297
38 FAB STEEL	0.00000022	0.00000051	0.00000010	0.00000079	0.00000914	0.00000029	0.00000049	0.00000343
39 PLATE WORK	0.00000654	0.00001635	0.00000125	0.00000803	0.00009424	0.00001151	0.00000746	0.00006079
40 SH METAL&ARC	0.00000720	0.04778121	0.00060338	0.00002662	0.00026191	0.00001020	0.00001452	0.00010835
41 METAL DOORS	0.00001228	0.00002742	0.00000548	0.00004427	0.00050057	0.00001609	0.00002665	0.00041061
42 FAB MET PROD	0.00000107	0.00000373	0.00000315	0.00000790	0.00007125	0.00000461	0.00000759	0.00000245
43 PLU, HEAT&REF	0.00006830	0.00014236	0.00002953	0.00023498	0.00276806	0.00009138	0.00015129	0.00170509
44 ELECTROPLAT	0.00001239	0.00266351	0.00046841	0.00112914	0.00018547	0.00001035	0.00000514	0.00005389
45 OTH FAB MET	0.00003075	0.00479487	0.00063582	0.00495580	0.00020016	0.00006118	0.00003701	0.00033470
46 FM, CN, ID MA	0.00000062	0.00000253	0.00000151	0.00000167	0.00001000	0.00000140	0.00000145	0.00000356
47 MIN MACH	0.00000001	0.00000004	0.00000002	0.00000006	0.00000006	0.00000005	0.00000003	0.00000002
48 MET WK MACH	0.00004431	0.00010481	0.00000768	0.00001641	0.00127365	0.00001031	0.00001187	0.00021710
49 IND PRO MACH	0.00000054	0.00000143	0.00000425	0.00000263	0.00000280	0.00001024	0.00000653	0.00000161
50 ENG&GEN MACH	0.00000169	0.00009340	0.00000169	0.00000349	0.00000152	0.00000398	0.00000251	0.00220260
51 OTH MAC&EQUP	0.00001147	0.00002941	0.00001034	0.00002129	0.00021094	0.00002303	0.00002142	0.00008302
52 ELEC INS	0.00022981	0.00066326	0.00033967	0.00022470	0.00178548	0.00008003	0.00009341	0.00029689
53 ELEC COM	0.00002363	0.00039176	0.00016273	0.00002505	0.00018148	0.00001125	0.00001770	0.00041212
54 OTH ELEC APP	0.00000150	0.00000290	0.00001143	0.00000293	0.00004949	0.00143515	0.00013145	0.00000178
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000242	0.00000295	0.00000359	0.00000608	0.00001309	0.00000171	0.00000192	0.00948643
57 MOTOR VECH	1.00041225	0.00019690	0.00009599	0.00027020	0.00050682	0.01123233	0.00636041	0.00012352

58 OTH TRAN EQ	0.00000003	1.00061433	0.00000004	0.00000010	0.00000008	0.00000016	0.00000025	0.00000008
59 PROF, SC&CONT	0.00000235	0.00000810	1.01139986	0.00001068	0.00002266	0.00001053	0.00001545	0.00001167
60 OTH MFG	0.00001359	0.000011150	0.000011930	1.00039268	0.00019797	0.00029854	0.00010379	0.00009774
61 RAIL TRANS	0.000519105	0.000403301	0.000342688	0.000474225	1.01573341	0.00128582	0.00134187	0.000091595
62 INTERCITY TR	0.000000308	0.000001856	0.000000163	0.000001306	0.00000531	1.00000711	0.00000585	0.00000779
63 MOTOR TRANS	0.000690810	0.000716157	0.000332059	0.01012642	0.00973473	0.00266636	1.03592370	0.00256886
64 AIR TRANS	0.00026006	0.000031590	0.00038513	0.00065184	0.00140370	0.00018373	0.00020595	1.01739555
65 PIPE TRANS	0.00000109	0.00000123	0.00000065	0.00000175	0.00016651	0.00000059	0.00000085	0.00000473
66 LOCAL TRANS	0	0	0	0	0	0	0	0
67 WARE&OTH TR	0.00003252	0.00085482	0.00040054	0.00053234	0.00182254	0.00008590	0.00007196	0.00010114
68 TELEP&TELEG	0.00205174	0.00496440	0.00565330	0.00637735	0.01064621	0.00436273	0.02861202	0.00744896
69 TV,RAD,COMM	0.00003646	0.00015474	0.00003240	0.00009801	0.00013666	0.00037847	0.00030725	0.00004938
70 GAS SERVICE	0.00116393	0.00294867	0.00194885	0.00480742	0.00283906	0.00430590	0.00259521	0.00174467
71 ELEC SERV	0.00219387	0.00558363	0.00303292	0.01506090	0.00585490	0.00868882	0.00511456	0.00514550
72 WT&SAN SER	0.00020522	0.00077728	0.00064414	0.00157314	0.00386877	0.00160873	0.00135742	0.00029140
73 WHL AUTO PTS	0.00014048	0.00036473	0.00019878	0.00089372	0.00075768	0.01537412	0.01640041	0.00023680
74 WHL GRO	0.00000811	0.00002150	0.00002895	0.00004009	0.00009196	0.00003748	0.00005251	0.00001763
75 WHL FM PROD	0.00000017	0.00000101	0.00000064	0.00000094	0.00000247	0.00000098	0.00000135	0.00000052
76 WHL MACH&EQP	0.00319651	0.00418501	0.01041319	0.00321906	0.00098876	0.00063329	0.00069018	0.00039522
77 WHL PETROLEM	0.00155411	0.00085121	0.00012564	0.00083171	0.00071784	0.01468569	0.01697865	0.01944183
78 GEN WHL	0.00538244	0.03307818	0.00105025	0.01981190	0.00562534	0.00536224	0.00497518	0.01214502
79 BLD MAT	0.00014832	0.01804546	0.00017254	0.00013931	0.00159191	0.00007960	0.00009438	0.00059776
80 RTL TRD-GEN	0.00000001	0.00000014	0.00000006	0.00000003	0.00000009	0.00000014	0.00000007	0.00000005
81 FOOD STORES	0.00000003	0.00000008	0.00000016	0.00000009	0.00000026	0.00000039	0.00000076	0.00000029
82 AUTO DL&REP	0.00051915	0.00076922	0.00030332	0.00158107	0.00106730	0.01389276	0.00864452	0.00032774
83 GAS SER STA	0.00004597	0.00065352	0.00020841	0.00060945	0.00029945	0.00029926	0.00033995	0.00025702
84 APP&ACCESS	0.00000001	0.00000001	0.00000003	0.00000001	0.00000032	0.00000009	0.00000001	0.00000000
85 FURNITURE	0.00000006	0.00000014	0.00000027	0.00000067	0.00000019	0.00000023	0.00000024	0.00000018
86 EAT&DRINK	0.00001581	0.00013201	0.00009065	0.00008701	0.00006267	0.00030315	0.00038871	0.00017130
87 OTH RETAIL	0.00057597	0.00023763	0.00004964	0.00001876	0.00008044	0.00007416	0.00008449	0.00011393
88 BK&CREDIT	0.00127066	0.00619718	0.00209124	0.00980340	0.00845220	0.00902710	0.03570333	0.02232327
89 INSURANCE	0.00096361	0.00245576	0.00401078	0.00585618	0.00284065	0.02515727	0.03929335	0.01754680
90 F.I.R.E	0.00133361	0.00441174	0.00745694	0.01130718	0.01687220	0.00341550	0.04283221	0.00602935
91 LEGAL SER	0.00025665	0.00086788	0.00304754	0.00130080	0.00458224	0.00650992	0.01600881	0.00581200
92 LODGE SER	0.00012653	0.00006980	0.00045890	0.00007754	0.00006814	0.00025312	0.00040652	0.00014717
93 PERSNL SER	0.00017562	0.00016039	0.00039099	0.00008585	0.000463393	0.00008644	0.00006551	0.00002914
94 ADV, DUP&AD	0.00043949	0.00344688	0.00423168	0.00512873	0.00230580	0.02771051	0.02168461	0.00900523
95 PHOTO&REC	0.00001874	0.00012346	0.00010648	0.00016286	0.00007135	0.00060850	0.00050090	0.00022413
96 OTH BUS SE	0.00070303	0.01072472	0.00095954	0.00308051	0.00703578	0.00243272	0.00347847	0.00242120
97 AUTO RENT,PK	0.00102870	0.00094681	0.00003775	0.00011863	0.00008437	0.00006958	0.00008972	0.00007130
98 REPAIR SER	0.00038252	0.00091750	0.00070895	0.00043779	0.00027370	0.00099817	0.00086211	0.00078060
99 PHYS&DEN	0.00000359	0.00001574	0.00005324	0.00002607	0.00001233	0.00008910	0.00013605	0.00006196
100 HOS&LAB SER	0.00008613	0.00023224	0.00026567	0.00047476	0.00111262	0.00038190	0.00054966	0.00017830
101 OTH MED SER	0.00000040	0.00000146	0.00000339	0.00000325	0.00000393	0.00000379	0.00001359	0.00000340
102 ELE&SECD SCH	0.00079504	0.00221205	0.00281653	0.00442436	0.01035095	0.00359483	0.00509350	0.00162880
103 COLL & UNIV	0.00024099	0.00045828	0.00029679	0.00075538	0.00061895	0.00111209	0.00179674	0.00021735
104 OTH ED SER	0.00000824	0.00001534	0.00002676	0.00003448	0.00009311	0.00004708	0.00005163	0.00001884
105 ENG & ARC	0.00000703	0.00006370	0.00003833	0.00005842	0.00009654	0.00002065	0.00021309	0.00004406
106 ACCT,ACD,&BK	0.00039242	0.00086502	0.00152771	0.00129580	0.00080242	0.00516234	0.01286741	0.00076048
107 OTH PROF SER	0.00003120	0.00012764	0.00014586	0.00566141	0.00012077	0.00087390	0.00094279	0.00044171
108 OTH SER	0.00022299	0.00043895	0.00098739	0.00229302	0.00048139	0.00087768	0.00089085	0.00052082
TOTAL	1.04998494	1.34784484	1.08844439	1.17257365	1.27761851	1.20584149	1.33298639	1.20172257

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

	65	66	67	68	69	70	71	72
1 COTTON	0.00000422	0.00000201	0.00000747	0.00000598	0.00000238	0.00000514	0.00000857	0.00000109
2 CASH GRAINS	0.00002644	0.00001103	0.00003492	0.00003875	0.00003260	0.00003315	0.00005563	0.00000603
3 OTHER GRAINS	0.00001446	0.00000470	0.00001862	0.00002087	0.00001028	0.00001861	0.00003046	0.00000307
4 RANGE LVSTK.	0.00001590	0.00000583	0.00001920	0.00002324	0.00001683	0.00001997	0.00003368	0.00000341
5 FEED LVSTK.	0.00001238	0.00000454	0.00001495	0.00001809	0.00001311	0.00001554	0.00002622	0.00000265
6 DAIRY	0.00013412	0.00003955	0.00015537	0.00019552	0.00008668	0.00016878	0.00028564	0.00002714
7 POULTRY&EGGS	0.00001817	0.00000805	0.00002304	0.00002675	0.00002682	0.00002279	0.00003832	0.00000417
8 AGSUP EXFAMA	0.00000641	0.00000233	0.00000800	0.00000937	0.00000619	0.00000807	0.00001356	0.00000139
9 AG SERVICES	0.00000536	0.00000184	0.00000666	0.00000781	0.00000441	0.00000672	0.00001134	0.00000114
10 PET&NAT GAS	0.02126488	0.00064316	0.00180728	0.00039592	0.00042709	0.16074527	0.02323666	0.00207135
11 OILFIELD SER	0.00124205	0.00003661	0.00010353	0.00002292	0.00002471	0.00911325	0.00131906	0.00017790
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000591	0.00000016	0.00000402	0.00000042	0.00000191	0.00000741	0.00000146	0.00000802
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00005793	0.00000122	0.00003431	0.00000398	0.00002179	0.00001195	0.00000541	0.00008177
16 MAINT&REPAIR	0.03423594	0.00089950	0.02710863	0.00277413	0.01297261	0.00274791	0.00305505	0.05453028
17 MEAT PROD	0.00029773	0.00010923	0.00035966	0.00043529	0.00031529	0.00037396	0.00063076	0.00006381
18 DAIRY PROD	0.00035928	0.00010549	0.00041590	0.00052375	0.00022951	0.00045216	0.00076527	0.00007262
19 GRN MILLPRD	0.00006510	0.00003620	0.00009410	0.00009630	0.00012399	0.00008108	0.00013544	0.00001661
20 BAKERY PROD	0.00016497	0.00004201	0.00018534	0.00023904	0.00008215	0.00020765	0.00035240	0.00003110
21 OTHFOODPROD	0.00033817	0.00016111	0.00059911	0.00047961	0.00041179	0.00068713	0.00068703	0.00008703
22 TEXTILE MILL	0.00001192	0.00000241	0.00001046	0.00000399	0.00001330	0.00001507	0.00001845	0.00002364
23 FAB TEX MILL	0.00002334	0.00000863	0.00003230	0.00001763	0.00001856	0.00022892	0.00027506	0.00013144
24 LUM&WOOD PR	0.00184137	0.00010405	0.00143848	0.00015910	0.00122704	0.00015169	0.00018005	0.00303183
25 FURN & FIX	0.00040898	0.00007383	0.00033231	0.00011479	0.00047332	0.00006880	0.00009594	0.00061985
26 PAPER EX BOX	0.00709591	0.00047549	0.00046751	0.00039201	0.00185047	0.00047710	0.00042931	0.00105577
27 BOXES&CONTAIN	0.00107454	0.00008735	0.00017810	0.00014574	0.00027495	0.00008947	0.00020877	0.00044202
28 NEWSPAPERS	0.00017019	0.00054433	0.00165301	0.00013183	0.00358268	0.00107600	0.00151586	0.00020059
29 PUB&PRINTING	0.00360266	0.00373882	0.00659693	0.00263055	0.00691296	0.00075558	0.00084219	0.00137810
30 DRUGS, SPS&CL	0.00004327	0.00001767	0.00009199	0.00005023	0.00031269	0.00006396	0.00014569	0.00039218
31 OTH CHEMICAL	0.00133330	0.00048499	0.00080278	0.00019702	0.00082935	0.00026962	0.00024011	0.01793246
32 PET REF	0.00028467	0.00001331	0.00025943	0.00002507	0.00010638	0.00002369	0.00004799	0.00044234
33 RUBBER PROD	0.00030867	0.00001391	0.00086087	0.00016127	0.00003546	0.00001578	0.00005583	0.00082419
34 PLASTIC PROD	0.00010988	0.00007450	0.00008612	0.00001867	0.00003553	0.00000695	0.00001102	0.00047050
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0.02419653	0.00009954	0.00070864	0.00031190	0.00033066	0.00034402	0.00050272	0.04005271
37 PRIMARY MET	0.00261433	0.00022178	0.00151978	0.00028170	0.00075055	0.00015771	0.00048982	0.00331799
38 FAB STEEL	0.00000353	0.00000009	0.00000270	0.00000028	0.00000133	0.00000045	0.00000033	0.00000552
39 PLATE WORK	0.00014797	0.00000101	0.00002859	0.00000305	0.00001375	0.00000582	0.00000368	0.00005821
40 SH METAL&ARC	0.00029146	0.00000298	0.00007687	0.00001008	0.00004025	0.00000850	0.00000965	0.00016424
41 METAL DOORS	0.00018664	0.00000495	0.00014771	0.00001529	0.00007206	0.00001503	0.00001669	0.00029713
42 FAB MET PROD	0.00001791	0.00000578	0.00002148	0.00001751	0.00001209	0.00001475	0.00002477	0.00000335
43 PLU, HEAT&REF	0.00103685	0.00002827	0.00082193	0.00008970	0.00039942	0.00008831	0.00010907	0.00164486
44 ELECTROPLAT	0.00038089	0.00000455	0.00001658	0.00000434	0.00001378	0.00000231	0.00000643	0.00004155
45 OTH FAB MET	0.00046577	0.00006021	0.00006037	0.00001776	0.00007155	0.00001757	0.00002508	0.00038962
46 FM, CN, ID MA	0.00000429	0.00000109	0.00000424	0.00000126	0.00000187	0.00000095	0.00001670	0.00033961
47 MIN MACH	0.00000156	0.00000005	0.00000013	0.00000003	0.00000003	0.00001176	0.00000170	0.00000016
48 MET WK MACH	0.00004321	0.00000604	0.00004140	0.00000589	0.00003483	0.00000997	0.00001651	0.00040135
49 IND PRO MACH	0.00000727	0.00000308	0.00000649	0.00000481	0.00000544	0.00002261	0.00000703	0.00000182
50 ENG&GEN MACH	0.04699358	0.00000107	0.00000391	0.00000321	0.00001549	0.00000146	0.00001315	0.00006357
51 OTH MAC&EQUP	0.00010854	0.00000545	0.00006836	0.00008361	0.00005736	0.00002300	0.00002121	0.00022337
52 ELEC INS	0.01215236	0.00008093	0.00028582	0.00054451	0.00014266	0.00003108	0.00102423	0.00194395
53 ELEC COM	0.00486435	0.00001268	0.00003717	0.00028880	0.00439556	0.00001163	0.00014956	0.00019822
54 OTH ELEC APP	0.00013302	0.00005624	0.00049059	0.00009073	0.00009168	0.00001961	0.00001281	0.00007114
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000082	0.00000132	0.00000314	0.00000761	0.00005916	0.00000164	0.00000190	0.00000144
57 MOTOR VECH	0.00024457	0.00082868	0.00395764	0.00005675	0.00449213	0.00015174	0.00017948	0.00020751

58	OTH TRAN EQ	0.00000118	0.00000006	0.00000018	0.00000028	0.00000012	0.00000022	0.00000033	0.00000004
59	PROF, SC&CONT	0.01105658	0.00000828	0.00003626	0.00005253	0.00002730	0.00004472	0.00006850	0.00006006
60	OTH MFG	0.00005102	0.00027227	0.00043816	0.00005852	0.00222766	0.00009739	0.00004610	0.00031464
61	RAIL TRANS	0.00179188	0.00069946	0.00523173	0.00036987	0.00051261	0.00022884	0.00268599	0.00162205
62	INTERCITY TR	0.00001162	0.00000660	0.00000628	0.00000571	0.00001578	0.00000543	0.00001049	0.00001700
63	MOTOR TRANS	0.00190050	0.00189537	0.00166766	0.00115118	0.00073181	0.00172905	0.00279964	0.00205324
64	AIR TRANS	0.00008819	0.00014138	0.00033685	0.00081598	0.00634462	0.00017580	0.00020406	0.00015482
65	PIPE TRANS	1.00000484	0.00000023	0.00000441	0.00000043	0.00000081	0.00000040	0.00000082	0.00000751
66	LOCAL TRANS	0	1.00000000	0	0	0	0	0	0
67	WARE&OTH TR	0.00005786	0.00007486	1.00007661	0.00003700	0.00081512	0.00052373	0.00042422	0.00007511
68	TELEP&TELEG	0.00220952	0.00982805	0.01822754	1.00309284	0.01367192	0.00568593	0.00452616	0.00413808
69	TV,RAD,COMM	0.00010149	0.00042351	0.00054303	0.00005411	1.00015800	0.00115317	0.00242561	0.00023024
70	GAS SERVICE	0.01613825	0.00401592	0.01123089	0.00246819	0.00264161	1.00475914	0.14523235	0.01280271
71	ELEC SERV	0.02311770	0.01029424	0.05045120	0.00694564	0.00856438	0.00241098	1.00154248	0.06994085
72	WT&SAN SER	0.00032888	0.00187649	0.00197430	0.00137126	0.00056136	0.00072051	0.00292990	1.09084267
73	WHL AUTO PTS	0.00011876	0.03817646	0.01003433	0.00036533	0.00039884	0.00068763	0.00062896	0.00037636
74	WHL GRO	0.00014297	0.00004175	0.00016458	0.00020792	0.00008592	0.00017885	0.00030291	0.00002902
75	WHL FM PROD	0.00000309	0.00000108	0.00000373	0.00000451	0.00000287	0.00000389	0.00000655	0.00000066
76	WHL MACH&EQP	0.00209158	0.00104772	0.00091325	0.00473994	0.00154029	0.00187689	0.00151916	0.01387571
77	WHL PETROLEM	0.00042808	0.05296551	0.00445457	0.00019886	0.00052651	0.00041977	0.00062018	0.00192358
78	GEN WHL	0.00330080	0.00766068	0.00475534	0.00511211	0.00671758	0.00523560	0.01141538	0.00601917
79	BLD MAT	0.00060264	0.00001902	0.00048536	0.00005347	0.00022959	0.00006894	0.00028472	0.00096082
80	RTL TRD-GEN	0.00000009	0.00000004	0.00000009	0.00000003	0.00000011	0.00000001	0.00000001	0.00000006
81	FOOD STORES	0.00000034	0.00000069	0.00000045	0.00000006	0.00000049	0.00000218	0.00000046	0.00000014
82	AUTO DL&REP	0.00096345	0.00575290	0.01057053	0.00068728	0.00054703	0.00456315	0.01118835	0.00311477
83	GAS SER STA	0.00016337	0.00033138	0.00042607	0.00027870	0.00067579	0.00147283	0.00089776	0.00025242
84	APP&ACCESS	0.00000001	0.00000004	0.00000004	0.00000002	0.00000001	0.00000001	0.00000001	0.00000001
85	FURNITURE	0.00000066	0.00000016	0.00000093	0.00000007	0.00000083	0.00000020	0.00000015	0.00000081
86	EAT&DRINK	0.00003565	0.00031648	0.00027787	0.00009298	0.00171494	0.00003955	0.00003997	0.00006723
87	OTH RETAIL	0.00004505	0.00002732	0.00004731	0.00005743	0.00013969	0.00006864	0.00006463	0.00008457
88	BK&CREDIT	0.00339581	0.01855900	0.07239254	0.00585307	0.00910228	0.00645570	0.00662571	0.00360435
89	INSURANCE	0.00131646	0.03102835	0.02079486	0.00077184	0.00245958	0.00153606	0.00208803	0.00566787
90	F.I.R.E	0.01088926	0.00696999	0.12643204	0.01129120	0.01196569	0.00850995	0.00649177	0.00182900
91	LEGAL SER	0.00118710	0.01369700	0.00809285	0.00068233	0.00526509	0.00213370	0.00255189	0.00079111
92	LDGE SER	0.00004165	0.00039937	0.00042110	0.00024895	0.00008711	0.00003981	0.00003528	0.00007135
93	PERSNL SER	0.00008106	0.00004135	0.00008762	0.00023688	0.00005204	0.00003975	0.00007243	0.00006795
94	ADV,DUPE&AD	0.00066404	0.02018168	0.00390309	0.00625520	0.04249940	0.00253136	0.00165746	0.00083538
95	PHOTO&REC	0.00003823	0.00044252	0.00020103	0.00014642	0.00326522	0.00007589	0.00006478	0.00003318
96	OTH BUS SE	0.00225436	0.00215734	0.03236185	0.00142742	0.01666003	0.00444712	0.00181906	0.00166963
97	AUTO RENT,PK	0.00012103	0.01032912	0.00010901	0.00004435	0.00006232	0.00010765	0.00011303	0.00016614
98	REPAIR SER	0.00029298	0.00184659	0.00094218	0.00026074	0.00163494	0.00364759	0.00175699	0.00203726
99	PHYS&DEN	0.00003516	0.00010753	0.00007283	0.00003448	0.00001490	0.00002750	0.00001068	0.00002259
100	HOS&LAB SER	0.00182391	0.00042033	0.00195027	0.00256571	0.00074947	0.00222979	0.00378768	0.00032995
101	OTH MED SER	0.00000348	0.00000517	0.00002875	0.00000354	0.00000300	0.00000272	0.00000172	0.00000116
102	ELE&SECD SCH	0.01644854	0.00397523	0.01831311	0.02380812	0.00701544	0.02071040	0.03516636	0.00305884
103	COLL & UNIV	0.00142037	0.00038400	0.00133864	0.00212953	0.00048441	0.00165971	0.00252317	0.00026166
104	OTH ED SER	0.00014320	0.00002016	0.00017014	0.00046617	0.00006029	0.00029292	0.00031991	0.00002901
105	ENG & ARC	0.00025894	0.00003566	0.00062764	0.00005712	0.00084451	0.00004367	0.00003480	0.00002796
106	ACCT,ACD,&BK	0.00051430	0.00496225	0.02117230	0.00048807	0.00365793	0.00352882	0.00185310	0.00197700
107	OTH PROF SER	0.00061688	0.00079596	0.00040008	0.00013918	0.00080791	0.00135755	0.00026265	0.00017306
108	OTH SER	0.00023801	0.00059622	0.00351776	0.00021571	0.00261820	0.00072374	0.00049223	0.00027232
TOTAL		1.27501441	1.26251856	1.48780321	1.09655271	1.19942812	1.27088856	1.29498445	1.36545406

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

	73	74	75	76	77	78	79	80
1 COTTON	0.00000224	0.00000108	0.00000513	0.00000183	0.00000363	0.00000184	0.00000508	0.00000501
2 CASH GRAINS	0.00001391	0.00001036	0.00012590	0.00001704	0.00002497	0.00001573	0.00003290	0.00003065
3 OTHER GRAINS	0.00000644	0.00000382	0.00001789	0.00000591	0.00001191	0.00000636	0.00001790	0.00001611
4 RANGE LVSTK.	0.00000724	0.00000521	0.00002041	0.00000842	0.00001539	0.00000882	0.00001979	0.00001796
5 FEED LVSTK.	0.00000564	0.00000405	0.00001589	0.00000655	0.00001198	0.00000686	0.00001541	0.00001398
6 DAIRY	0.00005765	0.00003385	0.00015874	0.00005189	0.00010705	0.00005563	0.00016675	0.00014687
7 POULTRY&EGGS	0.00000969	0.00000784	0.00003294	0.00001307	0.00001923	0.00001232	0.00002268	0.00002123
8 AGSUP EXFAMA	0.00000306	0.00000207	0.00001336	0.00000333	0.00000576	0.00000332	0.00000797	0.00000725
9 AG SERVICES	0.00000248	0.00000157	0.000009634	0.00000250	0.00000459	0.00000254	0.00000665	0.00000600
10 PET&NAT GAS	0.00037369	0.00044668	0.00124769	0.00031548	0.00043708	0.00054318	0.00063691	0.00107589
11 OILFIELD SER	0.00002142	0.00002545	0.00007138	0.00001804	0.00002493	0.00003091	0.00003633	0.00006117
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000058	0.00000018	0.00000074	0.00000024	0.00000033	0.00000020	0.00000031	0.00000038
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000502	0.00000149	0.00000613	0.00000199	0.00000273	0.00000157	0.00000257	0.00000308
16 MAINT&REPAIR	0.00390540	0.00113436	0.00470773	0.00153745	0.00212741	0.00119923	0.00196326	0.00230431
17 MEAT PROD	0.00013566	0.00009754	0.00038218	0.00015763	0.00028829	0.00016515	0.00037069	0.00033641
18 DAIRY PROD	0.00015426	0.00009019	0.00042460	0.00013807	0.00028566	0.00014811	0.00044670	0.00039323
19 GRN MILLPRD	0.00004169	0.00003635	0.00010558	0.00006221	0.00007150	0.00005190	0.00008087	0.00007975
20 BAKERY PROD	0.00004439	0.00003172	0.00018521	0.00004702	0.00012353	0.00005921	0.00020513	0.00017823
21 OTHFOODPROD	0.00017966	0.00008645	0.00041019	0.00014713	0.00029141	0.00014748	0.00040720	0.00040162
22 TEXTILE MILL	0.00000277	0.00000141	0.00000558	0.00000142	0.00000186	0.00000200	0.00000341	0.00000242
23 FAB TEX MILL	0.00001252	0.00000988	0.00002589	0.00000695	0.00001143	0.00001918	0.00003474	0.00001615
24 LUM&WOOD PR	0.00023026	0.00010149	0.00194059	0.00009181	0.00012257	0.00008475	0.00011080	0.00021762
25 FURN & FIX	0.00007913	0.00003237	0.00015792	0.00003944	0.00004614	0.00003443	0.00005379	0.00005721
26 PAPER EX BOX	0.00023427	0.00075550	0.01294538	0.00020498	0.00055446	0.00024627	0.00020550	0.00063004
27 BOXS&CONTAIN	0.00021926	0.00025362	0.01855653	0.00004866	0.00023887	0.00023887	0.00011185	0.01459470
28 NEWSPAPERS	0.00848048	0.00034717	0.00070474	0.00022097	0.00029847	0.00112954	0.00750755	0.04245489
29 PUB&PRINTING	0.01692491	0.00183728	0.00332673	0.00151916	0.01609152	0.00575858	0.00429002	0.01358532
30 DRUGS,SPS&CL	0.00003799	0.00009951	0.00016603	0.00001852	0.00003704	0.00002210	0.00004959	0.00004918
31 OTH CHEMICAL	0.00038104	0.00023372	0.00116739	0.00014086	0.00473990	0.00015313	0.00024291	0.00072855
32 PET REF	0.00042999	0.00002023	0.00004520	0.00001537	0.00002754	0.00001734	0.00002192	0.00002627
33 RUBBER PROD	0.00003651	0.00006005	0.00006627	0.00001805	0.00002698	0.00003059	0.00001678	0.00000954
34 PLASTIC PROD	0.00000671	0.00001038	0.00007322	0.00000322	0.00001181	0.00000342	0.00000474	0.00000670
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00015850	0.00008460	0.00043072	0.00010043	0.00009995	0.00007422	0.00014536	0.00011635
37 PRIMARY MET	0.00034595	0.00012391	0.00028574	0.00009101	0.00015351	0.00010155	0.00022624	0.00071009
38 FAB STEEL	0.00000039	0.00000011	0.00000047	0.00000015	0.00000021	0.00000012	0.00000020	0.00000023
39 PLATE WORK	0.00000417	0.00000126	0.00000504	0.00000162	0.00000266	0.00000131	0.00000208	0.00000252
40 SH METAL&ARC	0.00001139	0.00000372	0.00001529	0.00000452	0.00000644	0.00000375	0.00000593	0.00000802
41 METAL DOORS	0.00002140	0.00000626	0.00002594	0.00000842	0.00001164	0.00000657	0.00001075	0.00001260
42 FAB MET PROD	0.00000648	0.00000310	0.00001470	0.00000528	0.00001044	0.00000529	0.00001459	0.00001442
43 PLU,HEAT&REF	0.00011980	0.00003566	0.00015111	0.00004764	0.00006629	0.00003805	0.00006241	0.00007289
44 ELECTROPLAT	0.00000679	0.00000346	0.00000545	0.00000157	0.00000525	0.00001352	0.00000381	0.00000891
45 OTH FAB MET	0.00002790	0.00007640	0.00005281	0.00001614	0.00003451	0.00001177	0.00002826	0.00001212
46 FM,CN, ID MA	0.00000122	0.00000085	0.00000492	0.00000085	0.00000284	0.00000074	0.00000143	0.00000133
47 MIN MACH	0.00000003	0.00000003	0.00000009	0.00000002	0.00000003	0.00000004	0.00000005	0.00000008
48 MET WK MACH	0.00005316	0.00000579	0.00001451	0.00000397	0.00000884	0.00000950	0.00004461	0.00023191
49 IND PRO MACH	0.00001210	0.00000192	0.00000683	0.00000166	0.00001174	0.00000473	0.00000477	0.00001065
50 ENG&GEN MACH	0.00000328	0.00000114	0.00000533	0.00000096	0.00000229	0.00000135	0.00000171	0.00000243
51 OTH MAC&EQUP	0.00001791	0.00001192	0.00004331	0.00000635	0.00001575	0.00000997	0.00000879	0.00003302
52 ELEC INS	0.00007445	0.00003669	0.00011479	0.00004719	0.00004965	0.00003858	0.00005705	0.00004541
53 ELEC COM	0.00004155	0.00000722	0.00001707	0.00001164	0.00000866	0.00000799	0.00001737	0.00004262
54 OTH ELEC APP	0.00000353	0.00005658	0.00000809	0.00000262	0.00000279	0.00000446	0.00000280	0.00000251
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000526	0.00000234	0.00001203	0.00000186	0.00000171	0.00000167	0.00000197	0.00000211
57 MOTOR VECH	0.00012476	0.01127824	0.00083403	0.00047363	0.00066930	0.00050107	0.00120978	0.00016272

58	OTH TRAN EQ	0.00000009	0.00000006	0.00000043	0.00000006	0.00000011	0.00000010	0.00000017	0.00000015
59	PROF, SC&CONT	0.00001041	0.00000669	0.00004243	0.00000899	0.00002393	0.00001201	0.00003896	0.00003414
60	OTH MFG	0.00032641	0.00015236	0.00020167	0.00005058	0.00022785	0.00005888	0.00035363	0.00023479
61	RAIL TRANS	0.00138158	0.00126682	0.00092482	0.00036968	0.00121402	0.00088683	0.00072874	0.00091671
62	INTERCITY TR	0.00000425	0.00000311	0.00000532	0.00000245	0.00000655	0.00053596	0.00000393	0.00000450
63	MOTOR TRANS	0.00812584	0.00167455	0.01671767	0.00286869	0.00735451	0.00454155	0.00154712	0.00121977
64	AIR TRANS	0.00056451	0.00025098	0.00129038	0.00019923	0.00018382	0.00017898	0.00021075	0.00022590
65	PIPE TRANS	0.00000073	0.00000034	0.00000077	0.00000026	0.00000047	0.00000029	0.00000037	0.00000045
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00004653	0.00002831	0.00718227	0.00002912	0.00008131	0.00323034	0.00140537	0.00007754
68	TELEP&TELEG	0.01455929	0.00710507	0.01051415	0.02020616	0.01140983	0.01195582	0.00913351	0.00756921
69	TV, RAD, COMM	0.00686909	0.00032403	0.00038472	0.00043530	0.00011412	0.00017387	0.00199147	0.00810843
70	GAS SERVICE	0.00232443	0.00278661	0.00778543	0.00196786	0.00271593	0.00339063	0.00397522	0.00671709
71	ELEC SERV	0.00666353	0.00915228	0.02304402	0.00582252	0.00685534	0.00928771	0.01264827	0.01458722
72	WT&SAN SER	0.00160104	0.00141434	0.00840925	0.00158300	0.00065204	0.00101812	0.00232570	0.00116905
73	WHL AUTO PTS	1.00241143	0.00284666	0.00071970	0.00024274	0.00036421	0.00019848	0.00023312	0.00012565
74	WHL GRO	0.00007257	1.00003579	0.00016760	0.00005392	0.00011326	0.00005844	0.00017683	0.00015545
75	WHL FM PROD	0.00000141	0.00000095	1.00000417	0.00000152	0.00000279	0.00000157	0.00000384	0.00000346
76	WHL MACH&EOP	0.00036362	0.00031443	0.00096710	1.00033717	0.00082713	0.00023523	0.00059025	0.00056730
77	WHL PETROLEM	0.00053550	0.00094587	0.00174537	0.00029717	1.00048854	0.00045126	0.00048190	0.00014520
78	GEN WHL	0.00389537	0.00285236	0.00357914	0.00247531	0.00352933	1.00190506	0.00208710	0.00160887
79	BLD MAT	0.00007028	0.00002460	0.00009656	0.00002922	0.00004067	0.00002423	1.00003994	0.00004608
80	RTL TRD-GEN	0.00000018	0.00000002	0.00000006	0.00000002	0.00000017	0.00000006	0.00000005	1.00000014
81	FOOD STORES	0.00000082	0.00000017	0.00000060	0.00000031	0.00000087	0.00000016	0.00000015	0.00000012
82	AUTO DL&REP	0.00038586	0.01299035	0.00275090	0.00069275	0.00356242	0.00087811	0.00353006	0.00173105
83	GAS SER STA	0.00122207	0.00485583	0.00112089	0.00116574	0.00128721	0.00262188	0.00183928	0.00074976
84	APP&ACCESS	0.00000000	0.00000001	0.00000003	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
85	FURNITURE	0.00000012	0.00000005	0.00000036	0.00000058	0.00000056	0.00000017	0.00000022	0.00000022
86	EAT&DRINK	0.00032467	0.00042644	0.00054589	0.00077816	0.00040178	0.00051591	0.00005741	0.00019354
87	OTH RETAIL	0.00006587	0.00011955	0.00023161	0.00005771	0.00003933	0.00004699	0.00022180	0.00006662
88	BK&CREDIT	0.02735399	0.00460988	0.10398624	0.01333484	0.01006199	0.01619581	0.02367645	0.01183842
89	INSURANCE	0.00998153	0.00515850	0.01715992	0.00630946	0.00770334	0.01355047	0.00217444	0.00397082
90	F.I.R.E	0.01272171	0.00558393	0.01599804	0.02065492	0.02304902	0.01362883	0.00651295	0.03200303
91	LEGAL SER	0.01744378	0.00056049	0.00168467	0.00226018	0.00113600	0.00153494	0.00244977	0.00146961
92	LODGE SER	0.00401396	0.00074457	0.00058480	0.00110994	0.00045216	0.00037825	0.00004053	0.00008774
93	PERSNL SER	0.00002581	0.00006198	0.00005081	0.00001917	0.00005467	0.00002089	0.00003241	0.00003808
94	ADV, DUPE&D	0.00332556	0.00354454	0.01068308	0.00712209	0.02993830	0.00443670	0.00304546	0.01017678
95	PHOTO&REC	0.00017079	0.00008580	0.00035940	0.00017111	0.00065797	0.00103131	0.00011145	0.00028388
96	OTH BUS SE	0.00351708	0.00260664	0.02421345	0.00224438	0.00346167	0.00541934	0.00496796	0.00713331
97	AUTO RENT, PK	0.00005638	0.01012552	0.00303432	0.00067878	0.00003965	0.00367650	0.00014544	0.00007127
98	REPAIR SER	0.00138053	0.00339299	0.01603351	0.00448667	0.02911426	0.00103120	0.00077334	0.00032577
99	PHYS&DEN	0.00003560	0.00001852	0.00006103	0.00002255	0.00002874	0.00004854	0.00000822	0.00001743
100	HOS&LAB SER	0.00045687	0.00030950	0.00195279	0.00044903	0.00130579	0.00060091	0.00220190	0.00190206
101	OTH MED SER	0.00000387	0.00000180	0.00000543	0.00000507	0.00000578	0.00000451	0.00000164	0.00000724
102	ELEG&SEC SCH	0.00420687	0.00287228	0.01811753	0.00415621	0.01205688	0.00555478	0.02044613	0.01766448
103	COLL & UNIV	0.00069346	0.00047357	0.00322245	0.00043978	0.00078179	0.00062991	0.00130054	0.00112120
104	OTH ED SER	0.00003907	0.00002625	0.00017234	0.00004182	0.00010720	0.00005199	0.00018703	0.00015540
105	ENG & ARC	0.00007242	0.00002837	0.00008074	0.00010255	0.00011762	0.00006872	0.00003494	0.00016737
106	ACCT, ACD, &BK	0.00651438	0.00094121	0.00536376	0.00597754	0.00242275	0.00410863	0.00454793	0.00529882
107	OTH PROF SER	0.00023623	0.00014246	0.00046231	0.00021910	0.00066185	0.00028113	0.00010922	0.00209571
108	OTH SER	0.00045914	0.00019018	0.00135725	0.00223190	0.00212691	0.00065620	0.00084173	0.00083691
TOTAL		1.17723555	1.11958175	1.36227497	1.11740605	1.19401294	1.12826627	1.13618329	1.22189443

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

	81	82	83	84	85	86	87	88
1 COTTON	0.00000192	0.00000261	0.00000419	0.00000209	0.00000409	0.00017343	0.00000379	0.00000398
2 CASH GRAINS	0.00001024	0.00001130	0.00002200	0.00001015	0.00001951	0.01201791	0.00001850	0.00001559
3 OTHER GRAINS	0.00000534	0.00000546	0.00001147	0.00000505	0.00000928	0.00200768	0.00000952	0.00000849
4 RANGE LVSTK.	0.00000534	0.00000598	0.00001219	0.00000555	0.00001043	0.00527460	0.00001033	0.00000828
5 FEED LVSTK.	0.00000416	0.00000465	0.00000949	0.00000432	0.00000812	0.00410625	0.00000804	0.00000644
6 DAIRY	0.00004137	0.00004474	0.00009776	0.00004268	0.00007836	0.01696928	0.00008230	0.00006081
7 POULTRY&EGGS	0.00000669	0.00000767	0.00001479	0.00000694	0.00001345	0.01050975	0.00001253	0.00001017
8 AGSUP EXFAMA	0.00000223	0.00000248	0.00000503	0.00000228	0.00000429	0.00190311	0.00000425	0.00000343
9 AG SERVICES	0.00000192	0.00000204	0.00000415	0.00000187	0.00000351	0.00117662	0.00000352	0.00000281
10 PET&NAT GAS	0.00173902	0.00045096	0.00214826	0.00182324	0.00126063	0.00251321	0.00202875	0.00053270
11 OILFIELD SER	0.00009885	0.00002589	0.00012302	0.00010365	0.00007188	0.00014355	0.00011547	0.00003050
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000082	0.00000071	0.00000261	0.00000073	0.00000076	0.00000044	0.00000080	0.00000093
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000665	0.00000611	0.00002211	0.00000590	0.00000638	0.00000327	0.00000643	0.00000793
16 MAINT&REPAIR	0.00513346	0.00471764	0.01729988	0.00448338	0.00481680	0.00227947	0.00491968	0.00624490
17 MEAT PROD	0.00010001	0.00011192	0.00022833	0.00010396	0.00019540	0.09878945	0.00019340	0.00015499
18 DAIRY PROD	0.00011066	0.00011959	0.00026164	0.00011413	0.00020944	0.04411820	0.00022025	0.00016246
19 GRN MILLPRD	0.00002805	0.00003423	0.00005983	0.00002932	0.00005895	0.05564718	0.00005116	0.00004343
20 BAKERY PROD	0.00004838	0.00005147	0.00011625	0.00005017	0.00009023	0.00697672	0.00009815	0.00007131
21 OTHFOODPROD	0.00015393	0.00020964	0.00033572	0.00016767	0.00032805	0.01389771	0.00030368	0.00031879
22 TEXTILE MILL	0.00000698	0.00001799	0.00000905	0.00000370	0.00000524	0.00000811	0.00000456	0.00000491
23 FAB TEX MILL	0.00007403	0.00027417	0.00004964	0.00002783	0.00004771	0.00010531	0.00003643	0.00003481
24 LUM&WOOD PR	0.00035813	0.00026488	0.00093905	0.00026256	0.00023772	0.00021140	0.00028154	0.00033928
25 FURN & FIX	0.00010380	0.00008022	0.00023885	0.00008072	0.00009551	0.00007725	0.00009472	0.00011196
26 PAPER EX BOX	0.00043277	0.00032138	0.00027381	0.00138220	0.00053087	0.00165219	0.00095891	0.00176177
27 BOX&CONTAIN	0.00952350	0.00009704	0.00010444	0.00008324	0.00017844	0.00524057	0.00013197	0.00022702
28 NEWSPAPERS	0.01944620	0.01517844	0.00320333	0.02850459	0.07258815	0.00189577	0.03016262	0.00180858
29 PUB&PRINTING	0.00602644	0.00372040	0.00333898	0.00253217	0.01084405	0.00161727	0.00590004	0.01276471
30 DRUGS, SPSECL	0.00009196	0.00005317	0.00005887	0.00002956	0.00004142	0.00018447	0.00003507	0.00006729
31 OTH CHEMICAL	0.00043088	0.00040851	0.00065856	0.00052264	0.00108769	0.00267875	0.00062221	0.00044932
32 PET REF	0.00005775	0.00004157	0.00013989	0.00004240	0.00005410	0.00005569	0.00004838	0.00005186
33 RUBBER PROD	0.00002113	0.00001418	0.00002627	0.00001247	0.00002174	0.00005916	0.00003230	0.00001268
34 PLASTIC PROD	0.00000859	0.00001202	0.00002091	0.00000734	0.00001011	0.00010196	0.00000953	0.00000876
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS, ST, CL&CN	0.00017470	0.00021174	0.00081512	0.00019436	0.00027510	0.00070963	0.00030445	0.00019782
37 PRIMARY MET	0.00056651	0.00045456	0.00090435	0.00064252	0.00127437	0.00026942	0.00070841	0.00034455
38 FAB STEEL	0.00000051	0.00000047	0.00000172	0.00000045	0.00000048	0.00000023	0.00000049	0.00000062
39 PLATE WORK	0.00000537	0.00000490	0.00001780	0.00000469	0.00000512	0.00000265	0.00000518	0.00000651
40 SH METAL&ARC	0.00001540	0.00001359	0.00004906	0.00001293	0.00001417	0.00001457	0.00001429	0.00001793
41 METAL DOORS	0.00002809	0.00002576	0.00009427	0.00002448	0.00002636	0.00001252	0.00002684	0.00003406
42 FAB MET PROD	0.00000556	0.00000759	0.00001209	0.00000610	0.00001186	0.00049734	0.00001090	0.00001142
43 PLU, HEAT&REF	0.00016645	0.00014382	0.00052529	0.00013687	0.00014778	0.00008922	0.00016025	0.00019126
44 ELECTROPLAT	0.00001186	0.00000560	0.00001198	0.00000803	0.00001492	0.00001316	0.00000986	0.00000695
45 OTH FAB MET	0.00025932	0.00002434	0.00006379	0.00003380	0.00004086	0.00018954	0.00004415	0.00002163
46 FM, CN, ID MA	0.00000161	0.00000155	0.00000589	0.00000176	0.00000254	0.00001132	0.00000267	0.00000125
47 MIN MACH	0.00000013	0.00000003	0.00000016	0.00000013	0.00000009	0.00000018	0.00000015	0.00000004
48 MET WK MACH	0.00011187	0.00008733	0.00003773	0.00015803	0.00039609	0.00002022	0.00016900	0.00001772
49 IND PRO MACH	0.00000489	0.00000328	0.00000435	0.00000252	0.00000825	0.00000556	0.00000520	0.00000917
50 ENG&GEN MACH	0.00000176	0.00000152	0.00000298	0.00000163	0.00000299	0.00000155	0.00000196	0.00000214
51 OTH MAC&EQUP	0.00002870	0.00001457	0.00004396	0.00001344	0.00001865	0.00001627	0.00001661	0.00002081
52 ELEC INS	0.00012040	0.00006445	0.00020262	0.00009048	0.00010143	0.00010293	0.00011405	0.00007740
53 ELEC COM	0.00004237	0.00007769	0.00006584	0.00008269	0.00009927	0.00002936	0.00002781	0.00001379
54 OTH ELEC APP	0.00000398	0.00003574	0.00000319	0.00000342	0.00000469	0.00001225	0.00000509	0.00000167
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000133	0.00000241	0.00000163	0.00000241	0.00000472	0.00000103	0.00000147	0.00000200
57 MOTOR VECH	0.00032381	0.00079334	0.00012204	0.00013209	0.00079819	0.00033130	0.00160840	0.00005307

58	OTH TRAN EQ	0.00000007	0.00000008	0.00000018	0.00000006	0.00000009	0.00000006	0.00000010	0.00000010
59	PROF, SC&CONT	0.00001063	0.00001124	0.00002521	0.00001100	0.00001840	0.00001023	0.00001965	0.00001514
60	OTH MFG	0.00040544	0.00047660	0.00220682	0.00145766	0.00161906	0.00089889	0.00195868	0.00074493
61	RAIL TRANS	0.00195463	0.00051066	0.00046698	0.00080817	0.00182432	0.00422876	0.00109503	0.00032067
62	INTERCITY TR	0.00000476	0.00007176	0.00000410	0.00000313	0.00000504	0.00000985	0.00000479	0.00001449
63	MOTOR TRANS	0.00190122	0.00079318	0.00162536	0.00163777	0.00306398	0.00308841	0.00226077	0.00062569
64	AIR TRANS	0.00014221	0.00025899	0.00017441	0.00025849	0.00050666	0.00011076	0.00015714	0.00021436
65	PIPE TRANS	0.00000098	0.00000071	0.00000238	0.00000072	0.00000092	0.00000095	0.00000082	0.00000088
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WAREHO TR	0.00392344	0.00019294	0.00005765	0.00045419	0.00010072	0.00020251	0.00416968	0.00013817
68	TELEP&TELEG	0.00430912	0.01329880	0.00492602	0.00805287	0.01456666	0.00230940	0.01523098	0.00888649
69	TV, RAD, COMM	0.00625970	0.01497351	0.00980071	0.01609503	0.01927362	0.00384913	0.00262740	0.00076791
70	GAS SERVICE	0.01085489	0.00280774	0.01339211	0.01138495	0.00786428	0.01569023	0.01266784	0.00331600
71	ELEC SERV	0.03792157	0.00486888	0.03475894	0.03145030	0.02298883	0.02097464	0.02974435	0.00473773
72	WT&SAN SER	0.00106358	0.00265264	0.01129751	0.00197280	0.00383811	0.00526373	0.00459637	0.00116804
73	WHL AUTO PTS	0.00028789	0.00165919	0.00084735	0.00025089	0.00033012	0.00031600	0.00021503	0.00006919
74	WHL GRO	0.00004374	0.00004702	0.00010340	0.00004485	0.00008187	0.01152839	0.00008686	0.00006638
75	WHL FM PROD	0.00116357	0.00000115	0.00000236	0.00000106	0.00000199	0.00083502	0.00000199	0.00000157
76	WHL MACH&EQ	0.00054476	0.00053395	0.00059401	0.00046253	0.00075107	0.00057426	0.00059529	0.00079228
77	WHL PETROLEM	0.00036700	0.00035715	0.00116826	0.00014609	0.00118443	0.00082286	0.00035400	0.00010150
78	GEN WHL	0.00640372	0.00255227	0.00399111	0.00325850	0.00396776	0.01359584	0.00491369	0.01379107
79	BLD MAT	0.00009842	0.00008375	0.00030879	0.00008579	0.00009035	0.00069924	0.00009383	0.00011053
80	RTL TRD-GEN	0.00000007	0.00000004	0.00000005	0.00000003	0.00000012	0.00000002	0.00000006	0.00000014
81	FOOD STORES	1.00000043	0.00000025	0.00000013	0.00000023	0.00000033	0.00012345	0.00000035	0.00000023
82	AUTO DL&REP	0.00117781	1.00165893	0.00077860	0.00075367	0.00767462	0.00186463	0.00216487	0.00019756
83	GAS SER STA	0.00021159	0.00050564	1.00067599	0.00035062	0.00235773	0.00074874	0.00084205	0.00203100
84	APP&ACCESS	0.00000016	0.00000022	0.00000000	1.00000040	0.00000019	0.00000063	0.00000000	0.00000000
85	FURNITURE	0.00000027	0.00000019	0.00000053	0.00000065	1.00000038	0.00000029	0.00000047	0.00000164
86	EAT&DRINK	0.00013775	0.00019642	0.00021312	0.00014326	0.00035622	1.00009841	0.00018246	0.00017400
87	OTH RETAIL	0.00005459	0.00003380	0.00009897	0.00005548	0.00016157	0.00007176	1.00010014	0.00004158
88	BK&CREDIT	0.01095277	0.04340917	0.01399249	0.04290098	0.02683146	0.00515173	0.03049684	1.02674555
89	INSURANCE	0.00653176	0.01390953	0.01936243	0.03250000	0.01780779	0.00757221	0.00786408	0.00402062
90	F.I.R.E	0.01465799	0.02635369	0.05320090	0.02731207	0.07278435	0.00655745	0.05279661	0.01156989
91	LEGAL SER	0.00078065	0.00249141	0.00127392	0.00398365	0.00560539	0.00114385	0.00471571	0.00440917
92	LODGE SER	0.00012431	0.00014940	0.00024866	0.00007166	0.00022845	0.00011423	0.00014002	0.00014870
93	PERSNL SER	0.00241436	0.000319055	0.00002255	0.00584785	0.00278522	0.00388672	0.00003063	0.00002770
94	ADV, DUPE&AD	0.00298813	0.00756080	0.00271377	0.00453413	0.00574389	0.00217449	0.00623263	0.01799882
95	PHOTO&REC	0.00011348	0.00025334	0.00011474	0.00019730	0.00023129	0.00007868	0.00019308	0.00166456
96	OTH BUS SE	0.02165945	0.00479877	0.01828771	0.00502538	0.00560649	0.01316066	0.00693746	0.03741092
97	AUTO RENT, PK	0.00008551	0.00005480	0.00006647	0.00006605	0.00011166	0.00071852	0.00642080	0.00010465
98	REPAIR SER	0.01373882	0.00416771	0.00062754	0.00053915	0.00099855	0.00172608	0.00375479	0.00021019
99	PHYS&DEN	0.00002381	0.00004851	0.00006677	0.00001221	0.00006227	0.00002691	0.00002824	0.00001743
100	HOS&LAB SER	0.00050820	0.00053978	0.00123901	0.00052837	0.00094133	0.00042253	0.00104201	0.00075607
101	OTH MED SER	0.00000386	0.00000715	0.00001335	0.00000609	0.00001725	0.00000229	0.00001193	0.00000300
102	ELE&SECD SCH	0.00473505	0.00500221	0.01145966	0.00490964	0.00876192	0.00391074	0.00967342	0.00699827
103	COLL & UNIV	0.00051132	0.00054920	0.00134008	0.00044010	0.00068219	0.00041097	0.00074864	0.00050855
104	OTH ED SER	0.00004129	0.00004734	0.00010328	0.00003975	0.00008441	0.00003724	0.00008735	0.00006247
105	ENG & ARC	0.00007919	0.00014290	0.00027265	0.00014819	0.00037635	0.00004536	0.00026389	0.00006134
106	ACCT, ACD, &BK	0.00781150	0.00529919	0.00866752	0.00473783	0.01097401	0.00152313	0.00498304	0.01461353
107	OTH PROF SER	0.00018557	0.00035342	0.00035800	0.00032507	0.00044159	0.00028798	0.00028226	0.00051158
108	OTH SER	0.00100199	0.00067879	0.00194508	0.00247588	0.00141148	0.00083854	0.00176191	0.00628362
TOTAL		1.21414883	1.19630098	1.25572385	1.22849984	1.35134701	1.43243339	1.27219609	1.19881860

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

	89	90	91	92	93	94	95	96
1 COTTON	0.00000370	0.00002968	0.00000382	0.00019772	0.00000192	0.00000668	0.00000409	0.00000232
2 CASH GRAINS	0.00008683	0.00007256	0.00000709	0.00074321	0.00001192	0.00007721	0.00013552	0.00004682
3 OTHER GRAINS	0.00001894	0.00003802	0.00000394	0.00047069	0.00000624	0.00002143	0.00005543	0.00003721
4 RANGE LVSTK.	0.00003819	0.00003450	0.00000308	0.00026316	0.00000685	0.00004185	0.00035080	0.00001189
5 FEED LVSTK.	0.00002973	0.00002685	0.00000239	0.00020487	0.00000533	0.00003258	0.00027309	0.00000926
6 DAIRY	0.00016141	0.00026812	0.00002418	0.00453532	0.00005580	0.00017475	0.00022292	0.00007227
7 POULTRY&EGGS	0.00007225	0.00004286	0.00000373	0.00030588	0.00000814	0.00006797	0.00039424	0.00001871
8 AGSUP EXFAMA	0.00001453	0.00001573	0.00000151	0.00018072	0.00000278	0.00001439	0.00005281	0.00000691
9 AG SERVICES	0.00000963	0.00001363	0.00000136	0.00016899	0.00000229	0.00000993	0.00002688	0.00000424
10 PET&NAT GAS	0.00039432	0.000304759	0.00017131	0.00304153	0.00258952	0.00053709	0.00119827	0.00052861
11 OILFIELD SER	0.00002253	0.00017483	0.00000984	0.00017437	0.00014733	0.00003070	0.00006851	0.00003026
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000042	0.00000739	0.00000043	0.00000490	0.00000069	0.00000044	0.00000160	0.00000016
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000356	0.00006317	0.00000365	0.00004168	0.00000532	0.00000371	0.00001357	0.00000133
16 MAINT&REPAIR	0.00278312	0.04992601	0.00287618	0.03277375	0.00395938	0.00287600	0.01064763	0.00094246
17 MEAT PROD	0.00071531	0.00064607	0.00005761	0.00492885	0.00012825	0.00078377	0.00657014	0.00022268
18 DAIRY PROD	0.00042456	0.00071714	0.00006469	0.01226232	0.00014940	0.00045944	0.00046393	0.00019224
19 GRN MILLPRD	0.00037861	0.00022616	0.00002263	0.00154727	0.00003140	0.00031200	0.00035343	0.00008820
20 BAKERY PROD	0.00007193	0.00030928	0.00002830	0.00008403	0.00006743	0.00014776	0.00022292	0.00005839
21 OTHFOODPROD	0.00029641	0.00237962	0.00030641	0.01585358	0.00015431	0.00053545	0.00032783	0.00018568
22 TEXTILE MILL	0.00000347	0.00001804	0.00000156	0.00009668	0.00000331	0.00000428	0.00000621	0.00000578
23 FAB TEX MILL	0.00001675	0.00004057	0.00000358	0.00149135	0.00001466	0.00001669	0.00002127	0.00006775
24 LUM&WOOD PR	0.00015873	0.00265082	0.00016780	0.00175684	0.00022751	0.00019158	0.00061094	0.00008122
25 FURN & FIX	0.00009649	0.00060739	0.00005231	0.00038995	0.00009536	0.00012809	0.00019264	0.00007128
26 PAPER EX BOX	0.00120264	0.00192114	0.00013405	0.00216872	0.00050136	0.01371980	0.00058686	0.00029074
27 BOXS&CONTAIN	0.00030170	0.00046610	0.00004897	0.00183203	0.00007695	0.00069327	0.00030319	0.00026719
28 NEWSPAPERS	0.00040832	0.00654970	0.00036153	0.00537996	0.01412517	0.00067326	0.01459581	0.01658064
29 PUB&PRINTING	0.01980087	0.01818946	0.00138980	0.00487071	0.00116501	0.03398128	0.00302781	0.01825910
30 DRUGS,SPS&CL	0.00006341	0.00011643	0.00001370	0.00508476	0.00081183	0.00004188	0.00005810	0.00138753
31 OTH CHEMICAL	0.00036521	0.00154469	0.00009886	0.00441215	0.00117625	0.00795566	0.00066670	0.00056260
32 PET REF	0.00002584	0.00039988	0.00002610	0.00027364	0.00004195	0.00003756	0.00009763	0.00002197
33 RUBBER PROD	0.00001153	0.00004831	0.00000534	0.00016445	0.00001767	0.00002042	0.00005192	0.00001265
34 PLASTIC PROD	0.00000694	0.00004566	0.00000350	0.00011418	0.00005493	0.00002466	0.00011128	0.00003224
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00011759	0.00136457	0.00008519	0.00128876	0.00035082	0.00016978	0.00038138	0.00019439
37 PRIMARY MET	0.00016748	0.00241749	0.00015218	0.00165511	0.00083572	0.00023674	0.00073751	0.00036123
38 FAB STEEL	0.00000028	0.00000496	0.00000029	0.00000326	0.00000040	0.00000029	0.00000106	0.00000010
39 PLATE WORK	0.00000302	0.00005130	0.00000297	0.00003403	0.00000422	0.00000383	0.00001102	0.00000117
40 SH METAL&ARC	0.00000836	0.00014167	0.00000830	0.00009945	0.00001172	0.00000910	0.00003159	0.00000329
41 METAL DOORS	0.00001533	0.00027205	0.00001573	0.00017860	0.00002174	0.00001637	0.00005809	0.00000550
42 FAB MET PROD	0.00001062	0.00008523	0.00001097	0.00056737	0.00000559	0.00001918	0.00001177	0.00000668
43 PLU,HEAT&REF	0.00008938	0.00151463	0.00008780	0.00099276	0.00012329	0.00009153	0.00032503	0.00008151
44 ELECTROPLAT	0.00000555	0.00002789	0.00000211	0.00002641	0.00003122	0.00001047	0.00000818	0.00001946
45 OTH FAB MET	0.00001129	0.00011249	0.00000907	0.00019242	0.00025961	0.00003812	0.00002816	0.00008978
46 FM,CN, ID MA	0.00000122	0.00000755	0.00000047	0.00000895	0.00000284	0.00000476	0.00000302	0.00000140
47 MIN MACH	0.00000003	0.00000022	0.00000001	0.00000022	0.00000019	0.00000004	0.00000009	0.00000004
48 MET WK MACH	0.00000900	0.00008530	0.00000540	0.00006468	0.00008311	0.00001589	0.00009135	0.00009481
49 IND PRO MACH	0.00001585	0.00001549	0.00000130	0.00000657	0.00000329	0.00002372	0.00000371	0.00001314
50 ENG&GEN MACH	0.00000441	0.00000677	0.00000105	0.00000397	0.00000212	0.00001045	0.00000266	0.00000542
51 OTH MAC&EQUP	0.00001712	0.00012570	0.00000837	0.00008475	0.00001339	0.00002788	0.00002860	0.00001181
52 ELEC INS	0.000006155	0.00056849	0.00003721	0.00045172	0.00007787	0.00005763	0.00014832	0.00003824
53 ELEC COM	0.00000868	0.00006689	0.00000717	0.00006689	0.00006112	0.00001439	0.00003660	0.00002766
54 OTH ELEC APP	0.00000144	0.00000497	0.00000146	0.00000645	0.00000313	0.00000474	0.00000798	0.00000248
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000729	0.00000602	0.00000282	0.00000216	0.00000291	0.00002957	0.00000408	0.00001410
57 MOTOR VECH	0.00007273	0.00017250	0.00003815	0.00105765	0.00088025	0.00023686	0.00015698	0.00032886

58	OTH TRAN EQ	0.00000027	0.00000029	0.00000003	0.00000017	0.00000021	0.00000049	0.00001861	0.00000011
59	PROF, SC&CONT	0.00001442	0.000006173	0.00000604	0.00001952	0.00009738	0.00002641	0.00011825	0.00002377
60	OTH MFG	0.00014567	0.00025823	0.00018835	0.00031545	0.02145688	0.00082206	0.00041122	0.00028735
61	RAIL TRANS	0.00044767	0.00092109	0.00039513	0.00185056	0.00121810	0.00167783	0.00157787	0.00163038
62	INTERCITY TR	0.00000766	0.00001168	0.00000207	0.00002658	0.00000276	0.00007926	0.00341173	0.00000452
63	MOTOR TRANS	0.00058706	0.00184348	0.00031355	0.00217473	0.00191777	0.00298342	0.00231427	0.00180160
64	AIR TRANS	0.00078192	0.00064579	0.00030256	0.00023161	0.00031259	0.000317147	0.00043761	0.00151226
65	PIPE TRANS	0.00000044	0.00000679	0.00000044	0.00000465	0.00000071	0.00000064	0.00000166	0.00000037
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00011516	0.00011874	0.00001661	0.00134269	0.00005729	0.00195832	0.00018374	0.00017296
68	TELEP&TELEG	0.000539322	0.02807945	0.01290388	0.02058114	0.00653500	0.02421307	0.00971677	0.01044054
69	TV,RAD,COMM	0.00011827	0.00040141	0.00005224	0.00052624	0.01162805	0.00023103	0.00418196	0.00045256
70	GAS SERVICE	0.00245763	0.01894747	0.00106414	0.01893522	0.01617356	0.00333232	0.00746648	0.00329763
71	ELEC SERV	0.00415952	0.04149444	0.00236524	0.05451272	0.02123833	0.01061252	0.02727382	0.00534868
72	WT&SAN SER	0.00111222	0.00541470	0.00032265	0.00710044	0.00453094	0.00146640	0.00334522	0.00272773
73	WHL AUTO PTS	0.00018697	0.00032235	0.00009600	0.00043694	0.00027090	0.00026958	0.00026730	0.00021363
74	WHL GRO	0.00015412	0.00028364	0.00002542	0.00810598	0.00005890	0.00018536	0.00171236	0.00008401
75	WHL FM PROD	0.00000638	0.00000687	0.00000068	0.00007578	0.00000132	0.00000675	0.00003923	0.00000223
76	WHL MACH&EQP	0.00059774	0.00096908	0.00018398	0.00120708	0.00482011	0.00711983	0.00210696	0.00144650
77	WHL PETROLEM	0.00020357	0.00039853	0.00006383	0.00041200	0.00025262	0.00031965	0.00023898	0.00023297
78	GEN WHL	0.00934626	0.01029909	0.00285091	0.03886948	0.00268986	0.01646389	0.00973934	0.00390721
79	BLD MAT	0.00005435	0.00087820	0.00005086	0.00064917	0.00007472	0.00005912	0.00020493	0.00002036
80	RTL TRD-GEN	0.00000021	0.00000022	0.00000002	0.00000007	0.00000002	0.00000035	0.00000004	0.00000019
81	FOOD STORES	0.00000097	0.00000077	0.00004217	0.00000168	0.00000013	0.00000083	0.00000026	0.00000027
82	AUTO DL&REP	0.00054154	0.00124443	0.00025203	0.01188329	0.00374799	0.00060813	0.00074045	0.00056467
83	GAS SER STA	0.00119139	0.00091466	0.00113370	0.00633977	0.00080875	0.00551072	0.00040519	0.00141486
84	APP&ACCESS	0.00000001	0.00000001	0.00000000	0.00000006	0.00006904	0.00000005	0.00000001	0.00000000
85	FURNITURE	0.00000177	0.00000168	0.00000094	0.00000183	0.00000102	0.00000098	0.00000101	0.00000118
86	EAT&DRINK	0.00638259	0.00079210	0.00004740	0.00027417	0.00008326	0.00456156	0.00096810	0.00114092
87	OTH RETAIL	0.00007461	0.00009229	0.00006361	0.00582350	0.00004217	0.00088912	0.00006683	0.00003189
88	BK&CREDIT	0.00479517	0.15780215	0.00704715	0.01920766	0.00246577	0.00726131	0.00479746	0.00218301
89	INSURANCE	1.00205884	0.00885498	0.00050858	0.01459480	0.00206643	0.00831284	0.00597323	0.00180199
90	F.I.R.E	0.02500209	1.01472820	0.04400045	0.06185605	0.00808779	0.03437475	0.02077342	0.00552541
91	LEGAL SER	0.00385611	0.01375448	1.00064058	0.00527130	0.00170169	0.00566245	0.00250686	0.00257546
92	LODGE SER	0.00689962	0.00131964	0.00007238	1.00023970	0.00004882	0.00015127	0.00106265	0.00268575
93	PERSNL SER	0.00004912	0.00006600	0.00000953	0.00012972	1.01566960	0.00064046	0.00005247	0.00003591
94	ADV,DUP&AD	0.00831404	0.01105697	0.00112502	0.01908781	0.00156392	1.00713775	0.01841718	0.00554192
95	PHOTO&REC	0.00030336	0.00049047	0.00004657	0.00101205	0.00007962	0.01998889	1.01511170	0.00019123
96	OTH BUS SE	0.01130885	0.02971921	0.00510331	0.01572052	0.00623439	0.00539664	0.00733908	1.00790908
97	AUTO RENT,PK	0.00047300	0.00013047	0.00032864	0.00042223	0.00279340	0.00012488	0.00009161	0.00024329
98	REPAIR SER	0.00055997	0.00050760	0.00008237	0.04168512	0.00059959	0.00051551	0.00032568	0.00036959
99	PHYS&DEN	0.00340820	0.00003344	0.00000257	0.00005300	0.00000796	0.00007239	0.00151619	0.00000482
100	HOSE&LAB SER	0.00033989	0.00326489	0.00029719	0.00085165	0.00071520	0.00126145	0.00189737	0.00054435
101	OTH MED SER	0.00012317	0.00021164	0.00000922	0.00001467	0.00000195	0.00000964	0.00005680	0.00000142
102	ELE&SECD SCH	0.00275792	0.03030698	0.00278874	0.00792074	0.00667632	0.01159199	0.01157942	0.00503930
103	COLL & UNIV	0.00204435	0.00211611	0.00024370	0.00117132	0.00159147	0.00093510	0.00110779	0.00079223
104	OTH ED SER	0.00024466	0.00026922	0.00003217	0.00007413	0.00006224	0.00010865	0.00010589	0.00004436
105	ENG & ARC	0.00012812	0.00050276	0.00021721	0.00031101	0.00004983	0.00010829	0.00010829	0.00003517
106	ACCT,ACD,&BK	0.00415540	0.01135411	0.00795288	0.01416340	0.00279732	0.00840537	0.00352293	0.00226184
107	OTH PROF SER	0.01394974	0.00040475	0.00003458	0.00062556	0.00021221	0.01769177	0.00043729	0.00016891
108	OTH SER	0.00677007	0.00631872	0.00360136	0.00660700	0.00386124	0.00373837	0.00385369	0.00451557
TOTAL		1.16002138	1.50981162	1.10333792	1.50533239	1.18379799	1.28477339	1.22127637	1.12473634

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

	97	98	99	100	101	102	103	104
1 COTTON	0.00000313	0.00000195	0.00000285	0.00000972	0.00000645	0.00023587	0.00000641	0.00000076
2 CASH GRAINS	0.00001389	0.00000836	0.00001706	0.00005172	0.00011611	0.00155292	0.00010082	0.00000495
3 OTHER GRAINS	0.00000694	0.00000428	0.00000860	0.00002204	0.00005229	0.00085607	0.00000755	0.00000267
4 RANGE LVSTK.	0.00000751	0.00000458	0.00001854	0.00010246	0.00029912	0.00094091	0.00000586	0.00000295
5 FEED LVSTK.	0.00000585	0.00000356	0.00001443	0.00007976	0.00023287	0.00073249	0.00000456	0.00000230
6 DAIRY	0.00005921	0.00003608	0.00006578	0.00009054	0.00024074	0.00809971	0.00004462	0.00002482
7 POULTRY&EGGS	0.00000926	0.00000559	0.00002119	0.00011435	0.00033308	0.00106600	0.00000759	0.00000338
8 AGSUP EXFAMA	0.00000313	0.00000190	0.00000467	0.00001708	0.00004615	0.00038086	0.00000695	0.00000119
9 AG SERVICES	0.00000260	0.00000158	0.00000335	0.00000968	0.00002442	0.00031922	0.00000507	0.00000099
10 PET&NAT GAS	0.00050364	0.00075470	0.00078078	0.00148458	0.00104107	0.00099268	0.00148778	0.00026744
11 OILFIELD SER	0.00002875	0.00004321	0.00004446	0.00008449	0.00005942	0.00005723	0.00008574	0.00001519
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000056	0.00000132	0.00000037	0.00000031	0.00000071	0.00000098	0.00000073	0.00000003
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000471	0.00001124	0.00000296	0.00000230	0.00000590	0.00000834	0.00000668	0.00000025
16 MAINT&REPAIR	0.00367551	0.00885493	0.00228701	0.00166506	0.00459430	0.00644615	0.00457071	0.00015570
17 MEAT PROD	0.00014066	0.00008572	0.00034716	0.00191892	0.00560238	0.01762260	0.00010967	0.00005523
18 DAIRY PROD	0.00015842	0.00009654	0.00017180	0.00020488	0.00053376	0.02170606	0.00011929	0.00006649
19 GRN MILLPRD	0.00004012	0.00002373	0.00004495	0.00015443	0.00027653	0.00372169	0.00054694	0.00001231
20 BAKERY PROD	0.00006956	0.00004266	0.00007196	0.00028418	0.00002311	0.00999765	0.00004547	0.00003051
21 OTHFOODPROD	0.00025069	0.00015602	0.00022867	0.00077912	0.00051696	0.01891194	0.00051432	0.00006091
22 TEXTILE MILL	0.00000346	0.00000396	0.00000684	0.00028532	0.00000244	0.00000429	0.00057320	0.00000069
23 FAB TEX MILL	0.00001606	0.00001426	0.00000670	0.00489023	0.00000687	0.00000983	0.00025518	0.00000398
24 LUM&WOOD PR	0.00020498	0.00047236	0.00013776	0.00011972	0.00026245	0.00049326	0.00118214	0.00000969
25 FURN & FIX	0.00009798	0.00012120	0.00011479	0.00005174	0.00007904	0.00014403	0.02161966	0.00001779
26 PAPER EX BOX	0.00022381	0.00019052	0.00025320	0.00090674	0.00018440	0.00278194	0.00505898	0.00002389
27 BOXS&CONTAIN	0.00013630	0.00018394	0.00010603	0.00065427	0.00032109	0.00255967	0.00054958	0.00001374
28 NEWSPAPERS	0.00231756	0.00060458	0.00020918	0.00018380	0.00025398	0.00012372	0.00089016	0.00017098
29 PUB&PRINTING	0.00353656	0.01267504	0.00251120	0.00222176	0.00205049	0.00131554	0.00517631	0.00011384
30 DRUGS,SPS&CL	0.00003578	0.00002742	0.00073859	0.01543753	0.00276493	0.00014551	0.00107562	0.00000802
31 OTH CHEMICAL	0.00023425	0.00038246	0.00014153	0.00124635	0.00024422	0.00104599	0.00251746	0.00002065
32 PET REF	0.00003785	0.00009577	0.00002863	0.00002012	0.00004304	0.00005526	0.00004812	0.00000393
33 RUBBER PROD	0.00034892	0.00011537	0.00002639	0.00031196	0.00015043	0.00001996	0.00011775	0.00000284
34 PLASTIC PROD	0.00000552	0.00000950	0.00000652	0.00005793	0.00001705	0.00003191	0.00032585	0.00000103
35 LEATHER PROD	0	0	0	0	0	0	0	0
36 GLS,ST,CL&CN	0.00013278	0.00028449	0.00013190	0.00021466	0.00026289	0.00063387	0.00092641	0.00002198
37 PRIMARY MET	0.00034033	0.00051764	0.00014353	0.00015320	0.00024496	0.00033244	0.00183591	0.00002287
38 FAB STEEL	0.00000037	0.00000098	0.00000023	0.00000017	0.00000046	0.00000064	0.00000046	0.00000002
39 PLATE WORK	0.00000412	0.00000926	0.00000240	0.00000212	0.00000488	0.00000672	0.00000704	0.00000018
40 SH METAL&ARC	0.00001073	0.00002516	0.00000699	0.00001456	0.00001355	0.00002681	0.00008212	0.00000055
41 METAL DOORS	0.00002007	0.00004827	0.00001248	0.00000917	0.00002508	0.00003525	0.00002562	0.00000092
42 FAB MET PROD	0.00000900	0.00000560	0.00000819	0.00002794	0.00001851	0.00067673	0.00001865	0.00000221
43 PLU,HEAT&REF	0.00011495	0.00026802	0.00007242	0.00005151	0.00014102	0.00019928	0.00214063	0.00000648
44 ELECTROPLAT	0.00000430	0.00000758	0.00000251	0.00001289	0.00000509	0.00001399	0.00003131	0.00000049
45 OTH FAB MET	0.00001457	0.00003401	0.00001424	0.00017962	0.00010237	0.00015242	0.00016474	0.00000235
46 FM,CN,ID MA	0.00000121	0.00000184	0.00000123	0.00000229	0.00000214	0.00000382	0.00017995	0.00000035
47 MIN MACH	0.00000004	0.00000006	0.00000006	0.00000011	0.00000008	0.00000007	0.00000011	0.00000002
48 MET WK MACH	0.00002114	0.00001746	0.00000628	0.00000552	0.00000826	0.00000825	0.00054855	0.00000199
49 IND PRD MACH	0.00000482	0.00000896	0.00000378	0.00000200	0.00000238	0.00000622	0.00136571	0.00000111
50 ENG&GEN MACH	0.00000188	0.00000230	0.00000131	0.00000113	0.00000115	0.00000184	0.00040675	0.00000106
51 OTH MAC&EQUP	0.00001269	0.00002646	0.00000848	0.00000788	0.00001347	0.00001984	0.00108010	0.00000146
52 ELEC INS	0.00006995	0.00011090	0.00003560	0.00008044	0.00007122	0.00007050	0.00017192	0.00000916
53 ELEC COM	0.00002128	0.00001508	0.00000578	0.00005457	0.00000965	0.00000866	0.00020285	0.00002432
54 OTH ELEC APP	0.00000224	0.00000344	0.00000280	0.00011228	0.00000228	0.00000447	0.00000592	0.00000040
55 AIRCRAFT&ORD	0	0	0	0	0	0	0	0
56 AIRCRAFT PAR	0.00000199	0.00000152	0.00000089	0.00000125	0.00000065	0.00000355	0.00002824	0.00000288
57 MOTOR VECH	0.07401431	0.01727250	0.00004177	0.00017956	0.00036714	0.00015242	0.00049481	0.00001331

58	OTH TRAN EQ	0.00000023	0.00000005	0.00000019	0.00000002	0.00000008	0.00000001	0.00013175	0.00000010
59	PROF, SC&CONT	0.00001798	0.00000940	0.00035169	0.01542069	0.00025535	0.00000433	0.00348325	0.00000765
60	OTH MFG	0.00051754	0.000034605	0.00014989	0.00004515	0.00014755	0.00004243	0.00039915	0.00018402
61	RAIL TRANS	0.00100877	0.00294214	0.00119545	0.00078976	0.00078237	0.00052433	0.00137080	0.00030235
62	INTERCITY TR	0.00000467	0.00000472	0.00000672	0.00000333	0.00000218	0.00009913	0.00002280	0.00000070
63	MOTOR TRANS	0.00118827	0.01044508	0.00078784	0.00302459	0.00107709	0.00104921	0.00106999	0.00072189
64	AIR TRANS	0.00021385	0.00016256	0.00009576	0.00013413	0.00006995	0.00038120	0.00302852	0.00030868
65	PIPE TRANS	0.00000064	0.00000163	0.00000049	0.00000034	0.00000073	0.00000094	0.00000082	0.00000007
66	LOCAL TRANS	0	0	0	0	0	0	0	0
67	WARE&OTH TR	0.00003333	0.00003930	0.00006493	0.00003967	0.00056915	0.00013112	0.00014194	0.00000616
68	TELEP&TELEG	0.00408934	0.00610256	0.00407396	0.00408333	0.00672390	0.00244765	0.02354305	0.00060593
69	TV,RAD,COMM	0.00291094	0.00041510	0.00007622	0.00011015	0.00011765	0.00009069	0.00254700	0.00002458
70	GAS SERVICE	0.00313824	0.00469293	0.00487303	0.00927221	0.00649623	0.00618919	0.00928277	0.00167067
71	ELEC SERV	0.01123023	0.01542712	0.00764711	0.01831160	0.01062466	0.01204151	0.02431446	0.00542120
72	WT&SAN SER	0.00099867	0.00206446	0.00194844	0.00401166	0.00393511	0.00182296	0.00776129	0.00038861
73	WHL AUTO PTS	0.00024610	0.00053614	0.00008370	0.00014466	0.00017486	0.00024228	0.00047206	0.00015478
74	WHL GRO	0.00006247	0.00003825	0.00003455	0.00085293	0.00498576	0.00768221	0.00004455	0.00032060
75	WHL FM PROD	0.00000145	0.00000092	0.00000275	0.00001879	0.00003391	0.00018305	0.00000151	0.00000057
76	WHL MACH&EQP	0.00050956	0.01040667	0.00886844	0.02141536	0.00805775	0.00735739	0.00427808	0.00025782
77	WHL PETROLEM	0.00176332	0.00151719	0.00012429	0.00017795	0.00018707	0.00052491	0.00075611	0.00031994
78	GEN WHL	0.00289853	0.00252004	0.01054041	0.00507408	0.00294410	0.01348923	0.02725371	0.00055898
79	BLD MAT	0.00007534	0.00015917	0.00004306	0.00004191	0.00009491	0.00025358	0.00010029	0.00000439
80	RTL TRD-GEN	0.00000004	0.00000014	0.00000003	0.00000002	0.00000002	0.00000002	0.00000007	0.00000000
81	FOOD STORES	0.00000013	0.00002623	0.00000019	0.00000012	0.00000015	0.00000042	0.00000026	0.00000004
82	AUTO DL&REP	0.02771886	0.02316413	0.00033914	0.00048902	0.00052768	0.00080211	0.00077727	0.00012980
83	GAS SER STA	0.00012866	0.00034820	0.00039117	0.00016614	0.00042188	0.00041384	0.00068482	0.00015249
84	APP&ACCESS	0.00000001	0.00000001	0.00000001	0.00000003	0.00000028	0.00000013	0.00000008	0.00000000
85	FURNITURE	0.00000042	0.00000089	0.00000391	0.00000029	0.00000124	0.00000014	0.00000055	0.00000001
86	EAT&DRINK	0.00016415	0.00008897	0.00009447	0.00007789	0.00012392	0.00004862	0.00015306	0.00000838
87	OTH RETAIL	0.00005473	0.00006548	0.00003942	0.00001043	0.00003910	0.00024476	0.00021019	0.00006974
88	BK&CREDIT	0.01152884	0.01228618	0.00825317	0.01551026	0.00448536	0.00128943	0.01365732	0.00071130
89	INSURANCE	0.01535138	0.00509843	0.00818301	0.00340684	0.00587276	0.00422506	0.00492077	0.00077362
90	F.I.R.E	0.06358923	0.02932543	0.00932089	0.00147117	0.01721826	0.00131633	0.07470167	0.00111333
91	LEGAL SER	0.00210799	0.00182076	0.00385036	0.00154412	0.00170973	0.00026488	0.00461245	0.00062446
92	LODGE SER	0.00019735	0.00009400	0.00010222	0.00009393	0.00019291	0.00005533	0.00019150	0.00001029
93	PERSNL SER	0.00011463	0.00010411	0.00015937	0.00030932	0.00403621	0.00044004	0.00116231	0.00000444
94	ADV, DUP&AD	0.00274614	0.00374541	0.00063393	0.00109067	0.00076968	0.00073585	0.00688318	0.00019769
95	PHOTO&REC	0.00009501	0.00013676	0.00007841	0.00005457	0.00004235	0.00003337	0.00161603	0.00002976
96	OTH BUS SE	0.00270105	0.00267741	0.00681941	0.00664854	0.00331003	0.00132548	0.01819475	0.00083196
97	AUTO RENT,PK	1.00011539	0.00005879	0.00015248	0.00015579	0.00242359	0.00026345	0.00524948	0.00001194
98	REPAIR SER	0.00044507	1.00076813	0.00025399	0.00045480	0.00145571	0.00046212	0.00072006	0.00016506
99	PHYS&DEN	0.00005278	0.00001855	1.00002834	0.00001289	0.00002056	0.00001499	0.00002347	0.00000275
100	HOS&LAB SER	0.00073215	0.00045405	0.01275539	1.00197215	0.00024209	0.00012815	0.00047843	0.00032492
101	OTH MED SER	0.00001502	0.00000672	0.03462028	0.00000075	1.000000428	0.00000079	0.00001631	0.00000033
102	ELE&SECD SCH	0.00683118	0.00419748	0.00679714	0.00146979	0.00220816	1.00131752	0.00442739	0.00304111
103	COLL & UNIV	0.00176209	0.00039440	0.00146515	0.00014109	0.00063095	0.00010422	1.00035145	0.00072513
104	OTH ED SER	0.00005590	0.00004461	0.00005997	0.00001290	0.00002773	0.00001164	0.00004180	1.00002538
105	ENG & ARC	0.00031644	0.00014873	0.00004688	0.00000834	0.00000846	0.00000955	0.00038535	0.00000557
106	ACCT, ACD, &BK	0.00342833	0.00490623	0.00300166	0.00094728	0.01084191	0.00069069	0.00130712	0.00036293
107	OTH PROF SER	0.00027927	0.00016569	0.00013954	0.00008945	0.00011208	0.00014864	0.00238294	0.00001947
108	OTH SER	0.00161195	0.00339025	0.01496813	0.00087210	0.00472984	0.00020018	0.00201577	0.00002861
TOTAL		1.26003956	1.19506342	1.16281384	1.16223501	1.13049833	1.17384321	1.31355477	1.02184344

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

	105	106	107	108
1 COTTON	0.00000113	0.00000212	0.00000268	0.00000195
2 CASH GRAINS	0.00000871	0.00001087	0.00001316	0.00001958
3 OTHER GRAINS	0.00000334	0.00000579	0.00000705	0.00000641
4 RANGE LVSTK.	0.00000476	0.00000628	0.00000821	0.00001131
5 FEED LVSTK.	0.00000371	0.00000489	0.00000639	0.00000881
6 DAIRY	0.00002765	0.00005192	0.00005789	0.00005241
7 POULTRY&EGGS	0.00000689	0.00000735	0.00000968	0.00001708
8 AGSUP EXFAMA	0.00000178	0.00000257	0.00000310	0.00000387
9 AG SERVICES	0.00000134	0.00000215	0.00000252	0.00000276
10 PET&NAT GAS	0.00021999	0.00011520	0.00046863	0.00117861
11 OILFIELD SER	0.00001263	0.00000661	0.00002696	0.00006739
12 RES CONS	0	0	0	0
13 COMM&ED CONS	0.00000043	0.00000023	0.00000055	0.00000171
14 IND CONS	0	0	0	0
15 FAC CONS	0.00000708	0.00000195	0.00000469	0.00001450
16 MAINT&REPAIR	0.00289349	0.00153098	0.00364247	0.01141552
17 MEAT PROD	0.00008915	0.00011762	0.00015383	0.00021188
18 DAIRY PROD	0.00007345	0.00013902	0.00015454	0.00013830
19 GRN MILLPRD	0.00003021	0.00002839	0.00003481	0.00007350
20 BAKERY PROD	0.00002897	0.00006301	0.00006918	0.00005046
21 OTHFOODPROD	0.00009040	0.00016981	0.00021449	0.00015595
22 TEXTILE MILL	0.00000142	0.00000117	0.00000210	0.00000492
23 FAB TEX MILL	0.00000458	0.00000714	0.00000844	0.00001317
24 LUM&WOOD PR	0.00016090	0.00008340	0.00019924	0.00060800
25 FURN & FIX	0.00004487	0.00002915	0.00006233	0.00016096
26 PAPER EX BOX	0.00095440	0.00018337	0.00024841	0.00049297
27 BOXS&CONTAIN	0.00009675	0.00006357	0.00036268	0.00028275
28 NEWSPAPERS	0.00018956	0.00042429	0.00046388	0.00030852
29 PUB&PRINTING	0.00348316	0.00239635	0.03075185	0.02168219
30 DRUGS,SPS&CL	0.00001376	0.00001504	0.00003743	0.00006454
31 OTH CHEMICAL	0.000068658	0.00007728	0.00043158	0.00067187
32 PET REF	0.00002816	0.00001359	0.00003438	0.00009703
33 RUBBER PROD	0.00007129	0.00000440	0.00001747	0.00001516
34 PLASTIC PROD	0.00010171	0.00000334	0.00000886	0.00001632
35 LEATHER PROD	0	0	0	0
36 GLS,ST,CL&CN	0.00010620	0.00004981	0.00026124	0.00038255
37 PRIMARY MET	0.00180370	0.00008981	0.00024859	0.00058124
38 FAB STEEL	0.00000031	0.00000015	0.00000036	0.00000114
39 PLATE WORK	0.00000324	0.00000163	0.00000397	0.00001187
40 SH METAL&ARC	0.00001190	0.00000448	0.00001078	0.00003254
41 METAL DOORS	0.00001614	0.00000870	0.00001998	0.00006225
42 FAB MET PROD	0.00000643	0.00000608	0.00000769	0.00000560
43 PLU,HEAT&REF	0.00105021	0.00004845	0.00011279	0.00034676
44 ELECTROPLAT	0.00006617	0.00000165	0.00000932	0.00000981
45 OTH FAB MET	0.00057721	0.00000590	0.00001943	0.00002626
46 FM,CN,ID MA	0.00000091	0.00000036	0.00000205	0.00000264
47 MIN MACH	0.00000002	0.00000001	0.00000003	0.00000009
48 MET WK MACH	0.00000615	0.00000475	0.00001185	0.00001673
49 IND PRO MACH	0.00000279	0.00000230	0.00002134	0.00001580
50 ENG&GEN MACH	0.00000221	0.00000409	0.00000470	0.00000393
51 OTH MAC&EQUP	0.00002385	0.00000562	0.00002336	0.00003704
52 ELEC INS	0.02698742	0.00002226	0.00005565	0.00012027
53 ELEC COM	0.00267736	0.00000489	0.00001153	0.00001681
54 OTH ELEC APP	0.00000470	0.00000101	0.00000467	0.00002895
55 AIRCRAFT&ORD	0	0	0	0
56 AIRCRAFT PAR	0.00000591	0.00001545	0.00000566	0.00000322
57 MOTOR VECH	0.00003515	0.00017611	0.00034289	0.00005598

58 OTH TRAN EQ	0.00000006	0.00000007	0.00000017	0.00000019
59 PROF, SC&CONT	0.00035958	0.00001255	0.00001636	0.00010704
60 OTH MFG	0.00012808	0.00017894	0.00156288	0.00044027
61 RAIL TRANS	0.00060831	0.00017709	0.00064955	0.00083648
62 INTERCITY TR	0.00000686	0.00000440	0.00001754	0.00001561
63 MOTOR TRANS	0.00058214	0.00026460	0.00096746	0.00075866
64 AIR TRANS	0.00063433	0.00165742	0.00060712	0.00034585
65 PIPE TRANS	0.00000048	0.00000023	0.00000058	0.00000165
66 LOCAL TRANS	0	0	0	0
67 WARE&OTH TR	0.00014625	0.00002659	0.00363571	0.00005849
68 TELEP&TELEG	0.01104633	0.00774372	0.02019384	0.01138548
69 TV, RAD, COMM	0.00013703	0.00002985	0.00011578	0.00021497
70 GAS SERVICE	0.00136679	0.00071654	0.00291990	0.00734178
71 ELEC SERV	0.00391147	0.00159715	0.00503625	0.02371275
72 WT&SAN SER	0.00080720	0.00024262	0.00439848	0.00274778
73 WHL AUTO PTS	0.00022799	0.00003949	0.00024196	0.00007413
74 WHL GRO	0.00002927	0.00005503	0.00006664	0.00005511
75 WHL FM PROD	0.00000083	0.00000122	0.00000150	0.00000185
76 WHL MACH&EQP	0.00078732	0.00271179	0.00061863	0.00030741
77 WHL PETROLEM	0.00034835	0.00015129	0.00036035	0.00012854
78 GEN WHL	0.00341845	0.00659398	0.00533433	0.00858292
79 BLD MAT	0.00005199	0.00002782	0.00006534	0.00020407
80 RTL TRD-GEN	0.00000005	0.00000003	0.00000032	0.00000023
81 FOOD STORES	0.00000009	0.00000007	0.00000013	0.00000021
82 AUTO DL&REP	0.00033901	0.00015052	0.00059077	0.00326469
83 GAS SER STA	0.00069464	0.00010677	0.00072950	0.00601132
84 APP&ACCESS	0.00000000	0.00000000	0.00000000	0.00000001
85 FURNITURE	0.00000045	0.00000053	0.00000043	0.00026656
86 EAT&DRINK	0.00033141	0.00005142	0.00008586	0.00094936
87 OTH RETAIL	0.00011776	0.00005182	0.00004414	0.00024109
88 BK&CREDIT	0.00933335	0.00829650	0.00860209	0.00248375
89 INSURANCE	0.00300757	0.00339255	0.00275360	0.00463897
90 F.I.R.E	0.01074135	0.02752111	0.02613251	0.00631114
91 LEGAL SER	0.00084268	0.00117563	0.00205060	0.00159187
92 LODGE SER	0.00005244	0.00006561	0.00009842	0.00006402
93 PERSNL SER	0.00005256	0.00000871	0.00003103	0.00003984
94 ADV, DUP&AD	0.06669992	0.00070019	0.00376316	0.00304242
95 PHOTO&REC	0.00134465	0.00004242	0.00354036	0.00263298
96 OTH BUS SE	0.00466695	0.00157127	0.01375995	0.00586632
97 AUTO RENT, PK	0.00005874	0.00216714	0.00006729	0.00007403
98 REPAIR SER	0.00022600	0.00036583	0.00071533	0.00029167
99 PHYS&DEN	0.00001396	0.00001200	0.00071049	0.00002136
100 HOS&LAB SER	0.00028158	0.00067611	0.00074207	0.00067863
101 OTH MED SER	0.00000271	0.00000612	0.00003002	0.00000205
102 ELE&SECD SCH	0.00266273	0.00625585	0.00684785	0.00437463
103 COLL & UNIV	0.00027231	0.00049798	0.00081652	0.00104662
104 OTH ED SER	0.00002961	0.00005733	0.00005268	0.00003957
105 ENG & ARC	1.03503036	0.00013619	0.00013628	0.00003783
106 ACCT, ACD, & BK	0.00116403	1.03203800	0.01128021	0.00849667
107 OTH PROF SER	0.00140926	0.00006722	1.00016364	0.00016436
108 OTH SER	0.00137654	0.00200937	0.00162133	1.02222118

TOTAL	1.20808201	1.11567900	1.17086430	1.17178626

The combined direct and indirect effect on all sectors is represented by the column total for each sector. This direct and indirect effect per dollar of sales to a sector's final demand is the total expansion of output in all industries as a result of a one dollar sale to the final demand of any one sector. This total direct and indirect effect ranges from \$1.0218 for Other Educational Services (104) to \$2.1644 for Feedlot Livestock (5). It is of interest that the direct and indirect effect of a one dollar increase in final demand from the Aircraft, Aircraft Engines, and Ordnance sector (55) is only \$1.1259. This industrial sector is so large in the region, however, that reductions in Federal Government Defense expenditures do have a major impact on the regional economy, even though the direct and indirect effect (on a dollar basis of sales to final demand) is relatively small.

Additional discussion of Tables 5 and 6 is presented in the following section when further analysis of the direct and indirect effects is considered in some applications of the model.

V. SOME APPLICATIONS OF THE MODEL

A. ANALYSIS OF DIRECT, INDIRECT, AND INDUCED EFFECTS

The impact of local consumption expenditures on sectoral outputs can be estimated by including the household sector in the processing portion (Quadrant I) of the model. A matrix of direct requirements was computed with households included as a processing sector. The matrix of total requirements was computed and is presented in Table 7.

As in Table 6, each entry in Table 7 shows the total dollar production required from the industry named at the left of the table for each dollar of delivery to final demand by the industry listed at the top. The coefficients in Table 7, however, include the output generated by additional consumer spending. The impact of increased consumer spending in response to a change in final demand is termed the induced effect.

Using sector 55 (Aircraft, Aircraft Engines, and Ordnance) as an example, information in Table 7 indicates that total processing output, excluding the local household sector, must increase by \$1.3838 ($\$1.8075 - \$.4237$) to support an additional dollar's worth of sales to final demand by sector 55. Comparing the column total for sector 55 in Tables 7 and 6 shows that the induced effect of additional household expenditures on the gross output of the 108 original processing sectors was \$.2579 ($\$1.3838 - \1.1259). The induced effect of increased household expenditures on gross output can be isolated in the same manner for all other processing sectors of the model.

The direct, indirect, and induced effects associated with each sector of the model are isolated in Table 8. The steps in determining these separated effects are given in the footnotes to the table. Column four of Table 8 presents, by sector, the combined direct, indirect, and induced effects on interindustry output, including the dollar increase in sales to final demand by that sector. This number represents the total expansion (including the additional dollars worth of sales to final demand) in the output of all processing sectors (excluding households) as the result of an additional dollar's worth of sales to final demand by a given sector.

The direct effect for a given sector is an estimate of the total purchases, per dollar of output, of that sector from all processing sectors and is equal to the column total for that sector in Table 5. The coefficients shown in the first column of Table 8 is the direct effect plus the additional dollar's worth of sales by a given sector.

The direct effect ranges from \$.0176 ($\$1.0176 - \1.000) for sector 104 (All Other Educational Services) to \$.7827 ($\$1.7827 - \1.0000) for Sector 7 (Poultry and Eggs). Thus, relative to other sectors of the model, the All Other Educational Services

Table 7. Direct, indirect, and induced requirements per dollar of sales to final demand by industrial sector -- North Central Region; Texas 1967

TABLE 7. INTERDEPENDENCE COEFFICIENTS (INCLUDING HOUSEHOLDS) : NORTH CENTRAL , TEXAS, 1967

	1	2	3	4	5	6	7	8
1 COTTON	1.02444798	0.00020904	0.00029618	0.00068015	0.00054144	0.00019094	0.00021303	0.00025077
2 CASH GRAINS	0.00182430	1.02504020	0.00170870	0.04502994	0.18137741	0.12270090	0.08036057	0.00143092
3 OTHER GRAINS	0.00086317	0.00084269	1.04476469	0.09497310	0.05070044	0.08218613	0.00083692	0.00102329
4 RANGE LVSTK.	0.00069150	0.00068554	0.00098360	1.00121295	0.49793107	0.00054125	0.00046922	0.00083191
5 FEED LVSTK.	0.00051415	0.00050976	0.00073076	0.00050762	1.00039026	0.00040286	0.00034972	0.00061778
6 DAIRY	0.00335825	0.00333630	0.00472253	0.01464590	0.00816913	1.01052026	0.00234828	0.00396185
7 POULTRY&EGGS	0.00984768	0.00406369	0.00250166	0.00282263	0.00244406	0.00360864	1.06244158	0.00192752
8 AGSUP EXFAMA	0.05207063	0.04890638	0.04217135	0.03169714	0.03400785	0.02880513	0.07980974	1.00063810
9 AG SERVICES	0.10166452	0.03125493	0.00398594	0.01648409	0.01601128	0.02970756	0.03101564	0.00096249
10 PET&NAT GAS	0.00212847	0.00202369	0.00246170	0.00176031	0.00183632	0.00198624	0.00212414	0.00242093
11 OILFIELD SER	0.00012344	0.00011735	0.00014220	0.00010295	0.00010694	0.00011532	0.00012487	0.00014399
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000340	0.00000327	0.00000326	0.00000305	0.00000234	0.00000319	0.00000455	0.00000301
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00002931	0.00002818	0.00002799	0.00002647	0.00002029	0.00002752	0.00003960	0.00002674
16 MAINT&REPAIR	0.02271954	0.02185451	0.02166666	0.02042324	0.01555886	0.02134380	0.03069135	0.01995310
17 MEAT PRD	0.00970270	0.00962428	0.01372274	0.00966701	0.00743043	0.00765117	0.00669702	0.01156930
18 DAIRY PRD	0.00892748	0.00886953	0.01255174	0.00873848	0.00670378	0.00709125	0.00624561	0.01052831
19 GRN MILLPRD	0.00795248	0.00541477	0.00635760	0.03216045	0.08828076	0.17328492	0.46183420	0.00531456
20 BAKERY PRD	0.00684049	0.00678871	0.00974452	0.00655761	0.00503308	0.00535469	0.00462465	0.00823307
21 OTHFOODPRD	0.01671002	0.01649831	0.02371735	0.05440257	0.04328307	0.01505980	0.01682038	0.02010146
22 TEXTILE MILL	0.00029894	0.00029369	0.00042294	0.00028281	0.00021841	0.00023081	0.00020182	0.00036096
23 FAB TEX MILL	0.00465013	0.00457055	0.00663714	0.00440584	0.00340306	0.00357180	0.00306674	0.00565965
24 LUM&WOOD PR	0.00191391	0.00199322	0.00205370	0.00166440	0.00133063	0.00161491	0.00272291	0.00165917
25 FURN & FIX	0.00086253	0.00084083	0.00108144	0.00079902	0.00061662	0.00070947	0.00075399	0.00093389
26 PAPER EX BOX	0.00183197	0.00166670	0.00167336	0.00153335	0.00172376	0.00202685	0.02213708	0.00121730
27 BOXES&CONTAIN	0.00281972	0.00275257	0.00352945	0.00495348	0.00428027	0.00272436	0.00379233	0.00287538
28 NEWSPAPERS	0.00689193	0.00669401	0.00808765	0.00580004	0.00483176	0.00502366	0.00614675	0.03862308
29 PUB&PRINTING	0.00486740	0.00436670	0.00449560	0.00400520	0.00357499	0.00375320	0.00430249	0.00751544
30 DRUGS,SPSECL	0.00196523	0.00196198	0.00263391	0.00188779	0.00145116	0.00478240	0.00425521	0.00220698
31 OTH CHEMICAL	0.14003442	0.13091006	0.04885229	0.05458163	0.04880249	0.04428497	0.01898132	0.00200826
32 PET REF	0.00070740	0.00069068	0.00092107	0.00065856	0.00052587	0.00059127	0.00061083	0.00079926
33 RUBBER PRD	0.00125462	0.00156693	0.00103718	0.00067249	0.00063989	0.00091072	0.00072145	0.00057768
34 PLASTIC PRD	0.00083393	0.00081867	0.00118421	0.00069718	0.00054395	0.00057780	0.00046372	0.00072452
35 LEATHER PRD	0.00019941	0.00019738	0.00028847	0.00019033	0.00014645	0.00015260	0.00012836	0.00024626
36 GLS,ST,CL&CN	0.00183719	0.00174244	0.00175161	0.00209130	0.00187941	0.00180087	0.00294774	0.00446879
37 PRIMARY MET	0.00168132	0.00159996	0.00163592	0.00144315	0.00116525	0.00143815	0.00186525	0.00182324
38 FAB STEEL	0.00000226	0.00000218	0.00000216	0.00000204	0.00000155	0.00000213	0.00000306	0.00000200
39 PLATE WORK	0.00003524	0.00003369	0.00002685	0.00002568	0.00002025	0.00002612	0.00003362	0.00002120
40 SH METAL&ARC	0.00015885	0.00014811	0.00018096	0.00015488	0.00011991	0.00012788	0.00014582	0.00015782
41 METAL DOORS	0.00012494	0.00012015	0.00011921	0.00011216	0.00008550	0.00011669	0.00016747	0.00010900
42 FAB MET PRD	0.00059804	0.00059046	0.00084880	0.00194677	0.00154887	0.00053897	0.00060197	0.00071940
43 PLU,HEAT&REF	0.00110519	0.00115471	0.00115472	0.00095989	0.00073687	0.00093088	0.00117263	0.00102736
44 ELECTROPLAT	0.00007701	0.00007042	0.00007374	0.00007644	0.00005903	0.00003643	0.00003585	0.00003585
45 OTH FAB MET	0.00223240	0.00198789	0.00201898	0.00174461	0.00128694	0.00060407	0.00037316	0.00023775
46 FM,CN, ID MA	0.00066784	0.00024934	0.00005168	0.00012673	0.00012034	0.00019949	0.00019625	0.00001208
47 MIN MACH	0.00000016	0.00000015	0.00000018	0.00000013	0.00000013	0.00000015	0.00000016	0.00000018
48 MET WK MACH	0.00011442	0.00010811	0.00009175	0.00007656	0.00006584	0.00007160	0.00007828	0.00023611
49 IND PRD MACH	0.00001719	0.00001677	0.00002114	0.00001897	0.00001522	0.00001389	0.00001371	0.00002001
50 ENG&GEN MACH	0.00001418	0.00001064	0.00001131	0.00000867	0.00000770	0.00000869	0.00000900	0.00000965
51 OTH MAC&EQUP	0.00014824	0.00014102	0.00009785	0.00009582	0.00007842	0.00008793	0.00009567	0.00006574
52 ELEC INS	0.00029872	0.00028233	0.00031290	0.00026112	0.00020655	0.00025675	0.00032348	0.00029569
53 ELEC COM	0.00008808	0.00008215	0.00010342	0.00007663	0.00006055	0.00006971	0.00007252	0.00009476
54 OTH ELEC APP	0.00026097	0.00032044	0.00035426	0.00027252	0.00020711	0.00032090	0.00035875	0.00023843
55 AIRCRAFT&ORD	0.00000998	0.00000988	0.00001444	0.00000953	0.00000733	0.00000764	0.00000642	0.00001233
56 AIRCRAFT PAR	0.00002087	0.00002145	0.00002853	0.00001746	0.00001632	0.00001524	0.00001319	0.00002077
57 MOTOR VECH	0.00456309	0.00448232	0.00635136	0.00430706	0.00342819	0.00375498	0.00349269	0.00587274

58	OTH TRAN EQ	0.00149542	0.00148016	0.00216315	0.00142731	0.00109823	0.00114445	0.00096272	0.00184659
59	PROF, SC&CONT	0.00068808	0.00068389	0.00096321	0.00065896	0.00050544	0.00054663	0.00048171	0.00080645
60	OTH MFG	0.00131473	0.00113097	0.00159443	0.00104184	0.00087995	0.00088311	0.00082311	0.0188917
61	RAIL TRANS	0.00353218	0.00298941	0.00349963	0.00261928	0.00429376	0.0041538	0.00556694	0.00315923
62	INTERCITY TR	0.00078524	0.00077530	0.00111288	0.00074454	0.00057239	0.00059528	0.00050370	0.00094159
63	MOTOR TRANS	0.00801539	0.00764691	0.00863715	0.00651907	0.01061674	0.00984535	0.01156492	0.00687152
64	AIR TRANS	0.00135257	0.00142324	0.00177848	0.00102717	0.00109958	0.00095652	0.00084442	0.00113344
65	PIPE TRANS	0.00001202	0.00001173	0.00001565	0.00001119	0.00000893	0.00001004	0.00001038	0.00001358
66	LOCAL TRANS	0.00133810	0.00132444	0.00193568	0.00127714	0.00098267	0.00102399	0.00086131	0.00165243
67	WARE&OTH TR	0.00071934	0.00069776	0.00084324	0.00069820	0.00062079	0.00137790	0.00104004	0.00066179
68	TELEP&TELEG	0.01599670	0.01556368	0.01645096	0.01422338	0.01177426	0.01364796	0.01534835	0.02812082
69	TV, RAD, COMM	0.00155051	0.00158765	0.00178193	0.00142208	0.00117623	0.00153357	0.00154341	0.00159764
70	GAS SERVICE	0.01285504	0.01222206	0.01506360	0.01073321	0.01125249	0.01218220	0.01308887	0.01493062
71	ELEC SERV	0.02153434	0.02069804	0.02345226	0.01883227	0.01637124	0.01850649	0.02473164	0.02934670
72	WT&SAN SER	0.00449246	0.00436569	0.00563017	0.00400889	0.00331548	0.00353473	0.00353146	0.00651726
73	WHL AUTO PTS	0.00621570	0.00764792	0.00416416	0.00301422	0.00315777	0.00421929	0.00366108	0.00380407
74	WHL GRO	0.00577876	0.00573254	0.00821661	0.00556135	0.00426975	0.00452290	0.00391153	0.00694024
75	WHL FM PROD	0.00121782	0.00134383	0.00281310	0.00604487	0.01664279	0.01013976	0.02340695	0.00022120
76	WHL MACH&EQP	0.00405225	0.00322385	0.00291693	0.00221122	0.00234454	0.00218310	0.00291107	0.00209889
77	WHL PETROLEM	0.02099588	0.02506222	0.01119385	0.00710762	0.00828596	0.01433836	0.00553446	0.00370947
78	GEN WHL	0.04877524	0.04446427	0.03273714	0.03540805	0.02625199	0.02229661	0.02089904	0.01194469
79	BLD MAT	0.02768010	0.03376768	0.01443071	0.01958194	0.01569624	0.01389378	0.01186499	0.00352122
80	RTL TRD-GEN	0.02243171	0.02220275	0.03244943	0.02140982	0.01647345	0.01716599	0.01443889	0.02770117
81	FOOD STORES	0.01505712	0.01488552	0.02174443	0.01435099	0.01104305	0.01151036	0.00968334	0.01856216
82	AUTO DL&REP	0.02340779	0.02368072	0.02301384	0.02424263	0.01716978	0.03425584	0.02871501	0.01382477
83	GAS SER STA	0.01804624	0.02249917	0.01270091	0.00790132	0.00819681	0.01284979	0.00493854	0.00667114
84	APPE&ACCESS	0.00539020	0.00531372	0.00775311	0.00511972	0.00394032	0.00411001	0.00345893	0.00661784
85	FURNITURE	0.00439058	0.00434572	0.00635114	0.00419067	0.00322449	0.00335992	0.00282625	0.00542188
86	EAT&DRINK	0.01787048	0.01762482	0.02558261	0.01702724	0.01310027	0.01367412	0.01160807	0.02193857
87	OTH RETAIL	0.01353166	0.01337748	0.01937181	0.01276883	0.00994303	0.01040168	0.00876105	0.01671065
88	BK&CREDIT	0.02866941	0.02838842	0.03271881	0.03314005	0.04043178	0.02354506	0.03285969	0.03248607
89	INSURANCE	0.03476064	0.03455677	0.03902295	0.04375814	0.03106255	0.03514566	0.04288468	0.04080561
90	F.I.R.E	0.02855924	0.02842418	0.03752450	0.02621986	0.02107535	0.02271143	0.02079427	0.04149565
91	LEGAL SER	0.00248488	0.00245460	0.00295460	0.00223215	0.00192913	0.00199639	0.00201941	0.00376623
92	LODGE SER	0.00091130	0.00067271	0.00068737	0.00064390	0.00050376	0.00058402	0.00061738	0.00064587
93	PERSNL SER	0.01489135	0.01473529	0.02141353	0.01418296	0.01092248	0.01144811	0.00965378	0.01824769
94	ADV, DUP&AD	0.00425454	0.00413252	0.00386911	0.00349747	0.00350949	0.00350949	0.00399871	0.00330621
95	PHOTO&REC	0.00536165	0.00529453	0.00764095	0.00509407	0.00395311	0.00409416	0.00348897	0.00652460
96	OTH BUS SE	0.01469088	0.01097636	0.01137299	0.00990061	0.00906227	0.00927273	0.01106760	0.01456487
97	AUTO RENT, PK	0.00226867	0.00220622	0.00300273	0.00248128	0.00246996	0.00305925	0.00522813	0.00250810
98	REPAIR SER	0.00651894	0.00613850	0.00724846	0.00569488	0.00501551	0.01156931	0.00798726	0.01156688
99	PHYS&DEN	0.01098908	0.01087617	0.01585496	0.01052304	0.00808822	0.00843789	0.00714341	0.01356113
100	HOS&LAB SER	0.01109563	0.01116975	0.01444147	0.01081935	0.00818809	0.00977070	0.00950184	0.01138532
101	OTH MED SER	0.00495956	0.00490894	0.00717221	0.00473461	0.00364286	0.00379649	0.00319529	0.00612558
102	ELE&SECD SCH	0.03877686	0.04022775	0.04121710	0.03922491	0.02890083	0.04161973	0.04691420	0.02657389
103	COLL & UNIV	0.00673732	0.00674442	0.00896115	0.00653000	0.00508898	0.00572603	0.00548653	0.00747315
104	OTH ED SER	0.00341038	0.00339770	0.00480741	0.00327243	0.00250528	0.00271967	0.00239152	0.00400540
105	ENG & ARC	0.00018915	0.00018762	0.00024847	0.00017324	0.00013813	0.00014832	0.00013516	0.00025949
106	ACCT, ACD, &BK	0.00359473	0.00336376	0.00365023	0.00296237	0.00269752	0.00272887	0.00290381	0.00496692
107	OTH PROF SER	0.00342136	0.00159360	0.00093570	0.00132373	0.00109567	0.00146220	0.00159162	0.00084469
108	OTH SER	0.01291122	0.01262158	0.01789489	0.01210889	0.00944649	0.00983303	0.00854649	0.01541980
109	HOUSEHOLDS	0.67718591	0.67027387	0.97960964	0.64633645	0.49731325	0.51822024	0.43589142	0.83626404
TOTAL		2.68077354	2.57951310	2.86302278	2.57389530	2.96428193	2.57288941	2.76916609	2.52280183

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

	9	10	11	12	13	14	15	16
1 COTTON	0.00029225	0.00012334	0.00015689	0.00011347	0.00011151	0.00011193	0.00009975	0.00013668
2 CASH GRAINS	0.000732274	0.00070453	0.00089783	0.00064694	0.00063715	0.00063975	0.00057216	0.00077950
3 OTHER GRAINS	0.00089585	0.00050678	0.00069942	0.00046244	0.00045493	0.00045653	0.00040732	0.00055667
4 RANGE LVSTK.	0.00058331	0.00040980	0.00052322	0.00037613	0.00037013	0.00037137	0.00033248	0.00045273
5 FEED LVSTK.	0.00043366	0.00030443	0.00038858	0.00027934	0.00027488	0.00027582	0.00024699	0.00033624
6 DAIRY	0.00278702	0.00196435	0.00249351	0.00179270	0.00176112	0.00176652	0.00158380	0.00215675
7 POULTRY&EGGS	0.08347523	0.00094571	0.00121062	0.00087090	0.00085755	0.00086030	0.00076856	0.00104821
8 AGSUP EXFAMA	0.01125384	0.00031341	0.00040298	0.00028831	0.00028372	0.00028456	0.00025402	0.00034689
9 AG SERVICES	1.00303942	0.00047175	0.00060447	0.00043473	0.00042777	0.00042891	0.00038247	0.00052287
10 PET&NAT GAS	0.00280399	1.02599578	0.00141756	0.00125448	0.00134285	0.00180771	0.00149124	0.00164231
11 OILFIELD SER	0.00016245	0.05816744	1.00062529	0.00011946	0.00015505	0.00015630	0.00026531	0.00012741
12 RES CONS	0	0	0	1.00000000	0	0	0	0
13 COMM&ED CONS	0.00000492	0.00004571	0.00000136	0.00101058	1.00269660	0.00452191	0.00048957	0.00014676
14 IND CONS	0	0	0	0	0	1.00000000	0	0
15 FAC CONS	0.00004247	0.00006273	0.00001162	0.00002003	0.00002790	0.01930396	1.00004717	0.00127112
16 MAINT&REPAIR	0.03300240	0.00676463	0.00891692	0.00670531	0.00662004	0.00696750	0.00567910	1.00916175
17 MEAT PROD	0.00817800	0.00571333	0.00782126	0.00523351	0.00514971	0.00516873	0.00463541	0.00630148
18 DAIRY PROD	0.00740586	0.00522076	0.00662635	0.00476402	0.00467988	0.00469417	0.00420867	0.00573135
19 GRN MILLPRD	0.03925054	0.00260814	0.00333009	0.00240216	0.00236785	0.00237728	0.00212568	0.00289472
20 BAKERY PROD	0.00568532	0.00405925	0.00515146	0.00372133	0.00365586	0.00366591	0.00327726	0.00447367
21 OTHFOODPROD	0.01493556	0.00988686	0.01257585	0.00909577	0.00893824	0.00897191	0.00799612	0.01095638
22 TEXTILE MILL	0.00028468	0.00017677	0.00023245	0.00017154	0.00018413	0.00049100	0.00014389	0.00047808
23 FAB TEX MILL	0.00437333	0.00277810	0.00366585	0.00271015	0.00290596	0.00782669	0.00226604	0.00309238
24 LUM&WOOD PR	0.00258099	0.00065573	0.00085019	0.05153565	0.00326396	0.01892196	0.00064705	0.05353809
25 FURN & FIX	0.00097258	0.00044294	0.00055899	0.00040540	0.00045458	0.00127184	0.00035068	0.01138548
26 PAPER EX BOX	0.00333776	0.00052057	0.00066755	0.00086516	0.00079688	0.00093761	0.00048419	0.00162990
27 BOXS&CONTAIN	0.00268623	0.00139781	0.00175896	0.00168818	0.00187551	0.00226459	0.00207562	0.00213905
28 NEWSPAPERS	0.00612876	0.00289784	0.00354000	0.00264733	0.00262797	0.00282480	0.00229371	0.00351853
29 PUB&PRINTING	0.01114386	0.00232722	0.00231086	0.00319236	0.00312114	0.00271034	0.00205793	0.00467117
30 DRUGS,SPS&CL	0.00201848	0.00119518	0.00137985	0.00112772	0.00108439	0.00119147	0.00093933	0.00126013
31 OTH CHEMICAL	0.15933644	0.00133610	0.00099037	0.00726804	0.01338202	0.00725063	0.00180403	0.02258306
32 PET REF	0.00071400	0.00036710	0.00047054	0.00483873	0.00511736	0.01831346	0.00623213	0.00832073
33 RUBBER PROD	0.00041823	0.00025145	0.00032244	0.00062859	0.00042465	0.00052309	0.00027058	0.00090369
34 PLASTIC PROD	0.00080351	0.00035356	0.00045259	0.00088787	0.00076842	0.00058989	0.00047583	0.00113730
35 LEATHER PROD	0.00016862	0.00012044	0.00015458	0.00011118	0.00010942	0.00010969	0.00009770	0.00013369
36 GLS,ST,CL&CN	0.00231334	0.00213707	0.00076736	0.03201276	0.05226852	0.03564222	0.11971976	0.02272021
37 PRIMARY MET	0.00242911	0.00053855	0.00068967	0.00592439	0.00861416	0.00692358	0.00825752	0.04603605
38 FAB STEEL	0.00000329	0.00000178	0.00000089	0.00021014	0.01582939	0.01420273	0.00748347	0.00010026
39 PLATE WORK	0.00004994	0.00002626	0.00000965	0.00009002	0.01690801	0.01085383	0.00526223	0.00103256
40 SH METAL&ARC	0.00026997	0.00006963	0.00009317	0.00788218	0.00556621	0.005064184	0.00485766	0.00288627
41 METAL DOORS	0.00018086	0.00003725	0.00004964	0.00500487	0.00372110	0.00803172	0.00003321	0.00549616
42 FAB MET PROD	0.00053462	0.00035383	0.00045007	0.00032614	0.00032159	0.00032216	0.00028638	0.00039296
43 PLU,HEAT&REF	0.00201619	0.00042491	0.00054266	0.03135580	0.02151832	0.01133064	0.00352775	0.03061210
44 ELECTROPLAT	0.00005828	0.00001536	0.00001793	0.00020988	0.00037556	0.00121364	0.00016894	0.00043837
45 OTH FAB MET	0.00078358	0.00015698	0.00014063	0.00338215	0.0033296	0.00252573	0.00090691	0.00182759
46 FM,CN, ID MA	0.00597960	0.00000580	0.00000713	0.00056933	0.00050552	0.00097967	0.00008472	0.00009913
47 MIN MACH	0.00000021	0.00007506	0.00021761	0.00000010	0.00000012	0.00000014	0.00000015	0.00000013
48 MET WK MACH	0.00013663	0.00002915	0.00003663	0.00048559	0.00045902	0.00011058	0.00003962	0.00092743
49 IND PRO MACH	0.00001910	0.00013600	0.00001177	0.00000919	0.00000973	0.00092174	0.00000807	0.00001176
50 ENG&GEN MACH	0.00006631	0.00000609	0.00001401	0.00032147	0.00560674	0.03500999	0.00089235	0.00004945
51 OTH MAC&EQUP	0.00018277	0.00003843	0.00025139	0.00015675	0.00037094	0.00038314	0.0002392	0.00228508
52 ELEC INS	0.00046996	0.00011979	0.00015171	0.000304320	0.00787425	0.00860374	0.00185167	0.00732871
53 ELEC COM	0.00015041	0.00004253	0.00005649	0.00055393	0.0146557	0.00093586	0.00020957	0.00076213
54 OTH ELEC APP	0.00023502	0.00011633	0.00014904	0.00010965	0.00010872	0.00010866	0.00009690	0.00013234
55 AIRCRAFT&ORD	0.00000844	0.00000603	0.00000774	0.00000556	0.00000548	0.00000549	0.00000489	0.00000669
56 AIRCRAFT PAR	0.00004217	0.00001306	0.00004995	0.00001045	0.00001010	0.00004081	0.00000888	0.00001313
57 MOTOR VECH	0.00433358	0.00270560	0.00366680	0.00339469	0.00417271	0.00459436	0.00255770	0.00534396

58	OTH TRAN EQ	0.00126446	0.00090324	0.00115922	0.00083372	0.00082068	0.00082326	0.00073266	0.00100251
59	PROF,SC&CONT	0.00056629	0.00043071	0.00067074	0.00036938	0.00038289	0.00047329	0.00032772	0.00044398
60	OTH MFG	0.00201536	0.00059066	0.00086927	0.00095680	0.00060143	0.00136749	0.00052268	0.00133189
61	RAIL TRANS	0.00384206	0.00145156	0.00166240	0.00657867	0.00308800	0.00657319	0.00377619	0.00792227
62	INTERCITY TR	0.00065153	0.00046008	0.00058951	0.00044347	0.00044009	0.00043683	0.00041253	0.00053235
63	MOTOR TRANS	0.00769315	0.00355952	0.00404413	0.01151283	0.00697144	0.00743397	0.01048269	0.01452958
64	AIR TRANS	0.00377402	0.00086528	0.00466990	0.00062740	0.00059754	0.00388922	0.00051888	0.00081382
65	PIPE TRANS	0.00001213	0.00000624	0.00000799	0.00008219	0.00008693	0.00031108	0.00010586	0.00014134
66	LOCAL TRANS	0.00113146	0.00080816	0.00103726	0.00074605	0.00073423	0.00073601	0.00065560	0.00089708
67	WARE&OTH TR	0.00067506	0.00038188	0.00039563	0.00044626	0.00040759	0.00041727	0.00034297	0.00080679
68	TELEP&TELEG	0.01757715	0.00838182	0.01167835	0.00930010	0.01063555	0.01229025	0.00866013	0.01222968
69	TV,RAD,COMM	0.00141636	0.00071430	0.00089187	0.00066556	0.00065291	0.00071115	0.00059523	0.00090561
70	GAS SERVICE	0.01703806	0.01488793	0.00874226	0.00662910	0.00710047	0.00661560	0.00777470	0.00816117
71	ELEC SERV	0.03048358	0.01335227	0.01269669	0.01065046	0.01072569	0.01044031	0.00988966	0.01397675
72	WT&SAN SER	0.00546851	0.00247330	0.00395456	0.00248499	0.00261107	0.00236910	0.00203173	0.00340955
73	WHL AUTO PTS	0.00296843	0.00122503	0.00191659	0.00129787	0.00119779	0.00150401	0.00118344	0.00183857
74	WHL GRO	0.00483428	0.00342174	0.00434117	0.00313811	0.00308500	0.00309297	0.00276517	0.00377374
75	WHL FM PROD	0.00236946	0.00010879	0.00013940	0.00009997	0.00009837	0.00009879	0.00008818	0.00012039
76	WHL MACH&EQP	0.01081548	0.00207004	0.01055066	0.00157840	0.00136583	0.00154759	0.00157863	0.00187005
77	WHL PETROLEM	0.02509517	0.00131379	0.00190396	0.00180700	0.00153141	0.00191271	0.00221449	0.00384681
78	GEN WHL	0.01774596	0.00449054	0.00618775	0.02102024	0.01497289	0.01484429	0.00517446	0.03275947
79	BLD MAT	0.01166030	0.00167091	0.00214725	0.01199701	0.00543921	0.00252613	0.00152549	0.01915309
80	RTL TRD-GEN	0.01896784	0.01354790	0.01738853	0.01250732	0.01230862	0.01233862	0.01099033	0.01503922
81	FOOD STORES	0.01296878	0.00909089	0.01186919	0.00838046	0.00824780	0.00826806	0.00737930	0.01007710
82	AUTO DL&REP	0.01628733	0.00594333	0.01012827	0.00674254	0.00622167	0.00703997	0.00681322	0.00989789
83	GAS SER STA	0.00568263	0.00265950	0.00322999	0.00305929	0.00331123	0.00329742	0.00428251	0.00509665
84	APP&ACCESS	0.00484170	0.00323662	0.00415417	0.00298785	0.00294053	0.00294766	0.00262561	0.00359274
85	FURNITURE	0.00371319	0.00265172	0.00340347	0.00244865	0.00241043	0.00241627	0.00215346	0.00294421
86	EAT&DRINK	0.01594320	0.01065846	0.01366959	0.00991487	0.00986774	0.00995063	0.00894520	0.01202857
87	OTH RETAIL	0.01166421	0.00805277	0.01036096	0.00754504	0.00744278	0.00740487	0.00708060	0.00969053
88	BK&CREDIT	0.02318693	0.01039247	0.03395057	0.02146878	0.01216396	0.01251975	0.00952423	0.01502833
89	INSURANCE	0.02910373	0.01226819	0.01573225	0.02212277	0.03781345	0.02620973	0.02822147	0.02207095
90	F.I.R.E	0.02502089	0.01756952	0.01978838	0.01585707	0.01578429	0.01577945	0.01380541	0.02245240
91	LEGAL SER	0.00250108	0.00364465	0.00168586	0.00194837	0.00270792	0.00245050	0.00146594	0.00333055
92	LODGE SER	0.00388477	0.00027961	0.00032972	0.00031755	0.00043748	0.00038781	0.00034654	0.00039354
93	PERSNL SER	0.01261572	0.00897361	0.01172922	0.00830784	0.00816310	0.00822161	0.00732522	0.01024952
94	ADV,DUP&AD	0.00641947	0.00158396	0.00208925	0.00281880	0.00342755	0.00322476	0.00188845	0.00545845
95	PHOTO&REC	0.00467297	0.00318627	0.00410517	0.00300376	0.00294914	0.00295750	0.00259664	0.00365062
96	OTH BUS SE	0.06176012	0.01564394	0.00667152	0.00494966	0.01011313	0.02093026	0.00545331	0.01925634
97	AUTO RENT,PK	0.00215626	0.00130676	0.00204768	0.00138876	0.00132109	0.00157471	0.00129636	0.00173187
98	REPAIR SER	0.00973876	0.00259781	0.00332267	0.00243501	0.00282718	0.00259986	0.00218704	0.00322324
99	PHYS&DEN	0.00930856	0.00674100	0.00847853	0.00613758	0.00609930	0.00608937	0.00542929	0.00736664
100	HOS&LAB SER	0.00827156	0.00593047	0.00698955	0.00518882	0.00502944	0.00505015	0.00460084	0.00622200
101	OTH MED SER	0.00419444	0.00299906	0.00384267	0.00276552	0.00272380	0.00272953	0.00243144	0.00332562
102	ELE&SECD SCH	0.02232192	0.01630854	0.01509380	0.01241364	0.01148750	0.01159066	0.01129108	0.01475028
103	COLL & UNIV	0.00539320	0.00454921	0.00528981	0.00343077	0.00376428	0.00352280	0.00304471	0.00422714
104	OTH ED SER	0.00277883	0.00200172	0.00250845	0.00182593	0.00179072	0.00179387	0.00160656	0.00219311
105	ENG & ARC	0.00016928	0.00011381	0.00013236	0.00081321	0.00094897	0.00186744	0.00042536	0.00027614
106	ACCT,ACD,&BK	0.00604215	0.00219329	0.00475206	0.00225020	0.00225072	0.00216757	0.00240866	0.00426289
107	OTH PROF SER	0.02660363	0.00227799	0.00037584	0.00049763	0.00082206	0.00091803	0.00059676	0.00061977
108	OTH SER	0.01317489	0.00764065	0.01000926	0.00773281	0.00816704	0.00921044	0.00690430	0.00978631
109	HOUSEHOLDS	0.57261327	0.40899496	0.52493902	0.37755962	0.37158001	0.37248035	0.33178467	0.45399380
TOTAL		2.54788826	1.80275148	1.91637675	1.86481350	1.86464377	1.96961255	1.76754760	2.10504019

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

	17	18	19	20	21	22	23	24
1 COTTON	0.00015601	0.00014871	0.00023520	0.00058510	0.01295711	0.00012621	0.00014435	0.00014740
2 CASH GRAINS	0.01703029	0.04755036	0.17391634	0.01991186	0.00870574	0.00071896	0.00081909	0.00083730
3 OTHER GRAINS	0.00679152	0.03186855	0.00091454	0.00294293	0.00559951	0.00051416	0.00058624	0.00059934
4 RANGE LVSTK.	0.05697732	0.00045409	0.00027294	0.00163713	0.00087243	0.00041799	0.00047608	0.00048673
5 FEED LVSTK.	0.04434642	0.00033761	0.00020310	0.00125656	0.00066752	0.00031044	0.00035351	0.00036142
6 DAIRY	0.00996294	0.38929120	0.00131040	0.00970474	0.00346251	0.00199841	0.00226562	0.00231507
7 POULTRY&EGGS	0.06357497	0.00195484	0.00104305	0.00248478	0.00148887	0.00096692	0.00110379	0.00112870
8 AGSUP EXFAMA	0.00778872	0.01125176	0.00843236	0.00166679	0.00158577	0.00032031	0.00036555	0.00037376
9 AG SERVICES	0.00373850	0.01169376	0.00548511	0.00143187	0.00197282	0.00048288	0.00055161	0.00056405
10 PET&NAT GAS	0.00113795	0.00163942	0.00099841	0.00216812	0.00121677	0.00204895	0.00119654	0.00164499
11 OILFIELD SER	0.00006658	0.00009478	0.00006224	0.00012576	0.00009501	0.00011715	0.00006889	0.00009496
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000128	0.00000239	0.00000113	0.00000181	0.00000116	0.00000126	0.00000126	0.00000139
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001118	0.00002056	0.00001073	0.00001562	0.00001537	0.00001049	0.00002146	0.00001231
16 MAINT&REPAIR	0.00084767	0.01595743	0.00749616	0.01180296	0.00759325	0.00805528	0.00827645	0.00908807
17 MEAT PROD	1.06578891	0.00636918	0.00385154	0.02825164	0.01477302	0.00581813	0.00661687	0.00676404
18 DAIRY PROD	0.00378975	1.06166962	0.00348214	0.02583624	0.00911079	0.00531108	0.00602065	0.00615199
19 GRN MILLPRD	0.04298898	0.06812709	1.00233257	0.10800028	0.04036156	0.00266603	0.00304333	0.00311133
20 BAKERY PROD	0.00282489	0.00449305	0.00264047	1.01000052	0.00342587	0.00413845	0.00471347	0.00481834
21 OTHFOODPROD	0.01247881	0.01182622	0.01881455	0.04690787	1.03902913	0.01011673	0.01157078	0.01181574
22 TEXTILE MILL	0.00012575	0.00019612	0.00012387	0.00021858	0.00014892	1.01780145	0.05833901	0.00021164
23 FAB TEX MILL	0.00196677	0.00304138	0.00194571	0.00342806	0.00233955	0.00284340	1.00426732	0.00331868
24 LUM&WOOD PR	0.00116239	0.00140965	0.00067689	0.00112967	0.00138923	0.00073684	0.00119109	1.00686840
25 FURN & FIX	0.00034000	0.00058651	0.00032182	0.00056495	0.00038210	0.00044924	0.00057185	0.00054688
26 PAPER EX BOX	0.00739777	0.00683677	0.00487599	0.01952647	0.00405676	0.00205518	0.00274019	0.00653103
27 BOXS&CONTAIN	0.03071825	0.03357927	0.00391547	0.01906051	0.06429693	0.00286126	0.01053834	0.00193511
28 NEWSPAPERS	0.00233766	0.00381068	0.00223994	0.00382393	0.00334503	0.00281655	0.00323628	0.00337965
29 PUB&PRINTING	0.00337514	0.00367402	0.00279851	0.01195376	0.00628119	0.00234373	0.00293560	0.00265865
30 DRUGS,SPS&CL	0.00140391	0.00250170	0.00074520	0.00158339	0.00247775	0.00122916	0.00126955	0.00130599
31 OTH CHEMICAL	0.00655486	0.01773329	0.02267512	0.01618013	0.00482090	0.00081077	0.00349624	0.00216050
32 PET REF	0.00030711	0.00049014	0.00032518	0.00053105	0.00052529	0.00047060	0.00045973	0.00051744
33 RUBBER PROD	0.00036450	0.00052188	0.00039491	0.00045569	0.00029824	0.00026686	0.00034126	0.00108879
34 PLASTIC PROD	0.00116552	0.00044760	0.00027582	0.00068213	0.00059727	0.00036080	0.00042001	0.00045166
35 LEATHER PROD	0.00008312	0.00013109	0.00007737	0.00014797	0.00009618	0.00012342	0.00014117	0.00014438
36 GLS,ST,CL&CN	0.00136843	0.00121881	0.00373715	0.00188609	0.01723769	0.00065906	0.00069877	0.00113113
37 PRIMARY MET	0.00063506	0.00108484	0.00070098	0.00103569	0.00157512	0.00079083	0.00027072	0.00649111
38 FAB STEEL	0.00000085	0.00000159	0.00000076	0.00000118	0.00000080	0.00000080	0.00000091	0.00000091
39 PLATE WORK	0.00000956	0.00001822	0.00000978	0.00001410	0.00000857	0.00000863	0.00000951	0.00001052
40 SH METAL&ARC	0.00007861	0.00010297	0.00005994	0.00011156	0.000050420	0.00007344	0.00008789	0.00008593
41 METAL DOORS	0.00004635	0.00008722	0.00004114	0.00006480	0.00004445	0.00004421	0.00004536	0.00005020
42 FAB MET PROD	0.00044657	0.00042325	0.00067328	0.00167857	0.03717952	0.00036206	0.00042450	0.00042287
43 PLU,HEAT&REF	0.00058413	0.00071806	0.00036520	0.00065020	0.00045162	0.00045723	0.00049771	0.00052389
44 ELECTROPLAT	0.00001856	0.00002565	0.00002613	0.00005191	0.00005706	0.00001609	0.00002461	0.00007913
45 OTH FAB MET	0.00023292	0.00033137	0.00046737	0.00081289	0.00709356	0.00011379	0.00025731	0.00124574
46 FM,CN, ID MA	0.00003834	0.00008117	0.00004481	0.00001961	0.00001652	0.00000614	0.00000752	0.00000734
47 MIN MACH	0.00000008	0.00000012	0.00000007	0.00000016	0.00000009	0.00000015	0.00000009	0.00000012
48 MET WK MACH	0.00003125	0.00005080	0.00003863	0.00005389	0.00003972	0.00003981	0.00003758	0.00004315
49 IND PRO MACH	0.00000810	0.00001144	0.00000822	0.000036904	0.00009888	0.00000940	0.00001082	0.00001064
50 ENG&GEN MACH	0.00000424	0.00000665	0.00000459	0.00002883	0.00000843	0.00000632	0.00000587	0.00000574
51 OTH MAC&EQUP	0.00007242	0.00010122	0.00004091	0.00008515	0.00011648	0.00002984	0.00008896	0.00003343
52 ELEC INS	0.00012295	0.00023405	0.00011560	0.00018675	0.00012913	0.00015625	0.00015824	0.00018888
53 ELEC COM	0.00003485	0.00005956	0.00003763	0.00005857	0.00004636	0.00004749	0.00005892	0.00005576
54 OTH ELEC APP	0.00012540	0.00019405	0.00009901	0.00024483	0.00009862	0.00011995	0.00014846	0.00014264
55 AIRCRAFT&ORD	0.00000416	0.00000656	0.00000387	0.00000741	0.00000481	0.00000618	0.00000707	0.00000723
56 AIRCRAFT PAR	0.00000789	0.00001335	0.00000842	0.00001435	0.00000995	0.00001774	0.00001389	0.00001405
57 MOTOR VECH	0.00197758	0.00359962	0.00277200	0.00365629	0.00272439	0.00278963	0.00315843	0.00365532

58	OTH TRAN EQ	0.00062334	0.00098307	0.00058020	0.00110959	0.00072130	0.00092547	0.00105862	0.00108269
59	PROF, SC&CONT	0.00027922	0.00045063	0.00026396	0.00062808	0.00033854	0.00040689	0.00048636	0.00047167
60	OTH MFG	0.00055062	0.00101462	0.00052483	0.00127161	0.00082005	0.00059487	0.00093127	0.00071340
61	RAIL TRANS	0.00371460	0.00423371	0.00819995	0.00774254	0.00592687	0.01112247	0.00475010	0.00960398
62	INTERCITY TR	0.00032018	0.00050768	0.00030143	0.00075754	0.00039232	0.00047083	0.00054378	0.00055352
63	MOTOR TRANS	0.01669832	0.00823997	0.01416438	0.01027723	0.01824935	0.00600949	0.01789884	0.02654370
64	AIR TRANS	0.00047690	0.00084939	0.00055988	0.00088159	0.00064035	0.00135441	0.00086209	0.00086528
65	PIPE TRANS	0.00000522	0.00000833	0.00000552	0.00000902	0.00000599	0.00000799	0.00000781	0.00000879
66	LOCAL TRANS	0.00055777	0.00087964	0.00051916	0.00099291	0.00064540	0.00082814	0.00094731	0.00096884
67	WARE&OTH TR	0.00039311	0.00075240	0.00025894	0.00080962	0.00047926	0.00034812	0.00041342	0.00051377
68	TELEP&TELEG	0.00700127	0.01186470	0.00846060	0.01208207	0.00810172	0.00846559	0.00956772	0.01233553
69	TV,RAD,COMM	0.00062178	0.00109318	0.00136036	0.00124453	0.00180449	0.00072440	0.00076453	0.00084589
70	GAS SERVICE	0.00702407	0.01009139	0.00611585	0.01338905	0.00750888	0.01268923	0.00735850	0.01014992
71	ELEC SERV	0.01173787	0.02277462	0.01229535	0.01997108	0.01521271	0.02980231	0.01467184	0.01642984
72	WT&SAN SER	0.00371167	0.00546140	0.00232128	0.00420748	0.00330203	0.00355189	0.00311936	0.00394346
73	WHL AUTO PTS	0.00142266	0.00247547	0.00227270	0.00208239	0.00136082	0.00144165	0.00150470	0.00204024
74	WHL GRO	0.00239114	0.00379181	0.00223655	0.01995890	0.00360801	0.00349504	0.00397324	0.00406138
75	WHL FM PROD	0.00611357	0.00395980	0.00027198	0.00035527	0.00036350	0.00051103	0.00014951	0.00012951
76	WHL MACH&EQP	0.00112182	0.00244199	0.00132785	0.00225009	0.00222235	0.00119370	0.00094191	0.01027976
77	WHL PETROLEM	0.00205123	0.00867504	0.00697303	0.00404532	0.00222309	0.00162572	0.00176220	0.00311377
78	GEN WHL	0.00673376	0.01483717	0.01067906	0.00747710	0.00582615	0.00496910	0.01553175	0.00970172
79	BLD MAT	0.00311048	0.00640803	0.00636474	0.00208050	0.00201038	0.00173491	0.00208085	0.00293642
80	RTL TRD-GEN	0.00935049	0.01474620	0.00870309	0.01664505	0.01081939	0.01388281	0.01588060	0.01625515
81	FOOD STORES	0.00626656	0.00988429	0.00583345	0.01115431	0.00726664	0.00930265	0.01064126	0.01088319
82	AUTO DL&REP	0.00797246	0.01894590	0.00802904	0.01629664	0.00600362	0.00656777	0.00683374	0.00855642
83	GAS SER STA	0.00250857	0.00658533	0.00499683	0.00896545	0.00266195	0.00285865	0.00294035	0.00344522
84	APPEACCESS	0.00223506	0.00352647	0.00208079	0.00397726	0.00258526	0.00331663	0.00379389	0.00388015
85	FURNITURE	0.00183044	0.00288716	0.00170360	0.00325836	0.00212205	0.00271723	0.00311991	0.00317905
86	EAT&DRINK	0.00740980	0.01170771	0.00689440	0.01319818	0.00862126	0.01092741	0.01251565	0.01280349
87	OTH RETAIL	0.00562346	0.00885369	0.00528865	0.01010608	0.00646427	0.00825967	0.00941855	0.00968963
88	BK&CREDIT	0.01239202	0.01905289	0.00893367	0.01431316	0.00857178	0.00840564	0.01301747	0.02109324
89	INSURANCE	0.01318949	0.02120094	0.01154996	0.01859028	0.01404889	0.01495462	0.01685560	0.01699423
90	F.I.R.E	0.01393489	0.02630906	0.01228970	0.02782851	0.01518639	0.01592527	0.02469570	0.02730465
91	LEGAL SER	0.00126665	0.00469883	0.00119551	0.00308259	0.00198503	0.00170645	0.00276539	0.00342542
92	LODGE SER	0.00023737	0.00041003	0.00022731	0.00037971	0.00037642	0.00114347	0.00037372	0.00034157
93	PERSNL SER	0.00851896	0.01143983	0.00579700	0.01815779	0.00725517	0.00918592	0.01047202	0.01109032
94	ADV,DUP&AD	0.00459251	0.00850616	0.00354455	0.01697308	0.00657247	0.00234737	0.00499799	0.00432628
95	PHOTO&REC	0.00228143	0.00363008	0.00210898	0.00423613	0.00266712	0.00327156	0.00380069	0.00402607
96	OTH BUS SE	0.00758700	0.01452928	0.00599705	0.01190476	0.00977700	0.00573247	0.00590928	0.00762808
97	AUTO RENT,PK	0.00126227	0.00194429	0.00902066	0.00271319	0.00615063	0.00194471	0.00149947	0.00367095
98	REPAIR SER	0.00261890	0.00819498	0.00735407	0.00443056	0.00637932	0.00472559	0.00296948	0.00409563
99	PHYS&DEN	0.00457800	0.00722068	0.00425694	0.00813106	0.00529716	0.00677799	0.00775307	0.00792793
100	HOSE&LAB SER	0.00421171	0.00724971	0.00413603	0.00706467	0.00475186	0.00585366	0.00646805	0.00659083
101	OTH MED SER	0.00206768	0.00326177	0.00192424	0.00368071	0.00239230	0.00306827	0.00351113	0.00359132
102	ELE&SECD SCH	0.01236105	0.02512839	0.01350416	0.01798476	0.01318245	0.01459609	0.01463644	0.01474123
103	COLL & UNIV	0.00268900	0.00451882	0.00264544	0.00458115	0.00339926	0.00389340	0.00426356	0.00440139
104	OTH ED SER	0.00138931	0.00224405	0.00131042	0.00244104	0.00159959	0.00203287	0.00230580	0.00236270
105	ENG & ARC	0.00018595	0.00016007	0.00007998	0.00017627	0.00010384	0.00015057	0.00015407	0.00016565
106	ACCT,ACD,&BK	0.00161282	0.00234945	0.00173694	0.00451992	0.00202892	0.00195182	0.00251407	0.00319833
107	OTH PROF SER	0.00058424	0.00191245	0.00045901	0.00109618	0.00209011	0.00100713	0.00078624	0.00042516
108	OTH SER	0.00625427	0.01181949	0.00511558	0.01066791	0.00626011	0.00776933	0.00893289	0.00966662
109	HOUSEHOLDS	0.28227926	0.44516952	0.26273545	0.50249118	0.32662283	0.41910533	0.47941468	0.49031152
TOTAL		1.91703297	2.56796281	1.77766041	2.24844020	1.88652997	1.77067421	1.92587280	1.92900591

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

	25	26	27	28	29	30	31	32
1 COTTON	0.00013518	0.00010900	0.00010646	0.00017314	0.00016884	0.00008210	0.00008469	0.00008718
2 CASH GRAINS	0.00076905	0.00062021	0.00060606	0.00100427	0.00096778	0.00046535	0.00049169	0.00049675
3 OTHER GRAINS	0.00055029	0.00044322	0.00043290	0.00070688	0.00068894	0.00033270	0.00034970	0.00035533
4 RANGE LVSTK.	0.00044728	0.00036053	0.00035248	0.00058056	0.00056272	0.00027042	0.00028444	0.00028872
5 FEED LVSTK.	0.00033215	0.00026780	0.00026185	0.00043144	0.00041804	0.00020084	0.00021139	0.00021442
6 DAIRY	0.00212844	0.00172507	0.00168945	0.00274737	0.00267609	0.00129085	0.00139193	0.00137696
7 POULTRY&EGGS	0.00103644	0.00083300	0.00081341	0.00134304	0.00130048	0.00062546	0.00065463	0.00066842
8 AGSUP EXFAMA	0.00034315	0.00027592	0.00026944	0.00044188	0.00042968	0.00020716	0.00021714	0.00022136
9 AG SERVICES	0.00051771	0.00041567	0.00040571	0.00066372	0.00064692	0.00031223	0.00032597	0.00033378
10 PET&NAT GAS	0.00150274	0.00149941	0.00112925	0.00194212	0.00158414	0.00118385	0.00232336	0.04161861
11 OILFIELD SER	0.00008681	0.00008626	0.00006496	0.00011150	0.00009144	0.00006839	0.00013740	0.00236080
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000125	0.00000173	0.00000158	0.00000164	0.00000163	0.00000075	0.00000218	0.00000284
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001079	0.00001473	0.00001379	0.00001483	0.00001411	0.00000641	0.00001951	0.00001151
16 MAINT&REPAIR	0.000814660	0.01142820	0.01052435	0.01068615	0.01071551	0.00479215	0.01430194	0.00708488
17 MEAT PROD	0.000621910	0.00502283	0.00491462	0.00811490	0.00784692	0.00376478	0.00397730	0.00401694
18 DAIRY PROD	0.00565606	0.00458465	0.00449014	0.00729904	0.00711088	0.00343047	0.00370121	0.00365927
19 GRN MILLPRD	0.00285661	0.00229866	0.00224473	0.00375079	0.00359598	0.00172635	0.00181198	0.00184386
20 BAKERY PROD	0.00442568	0.00356987	0.00349190	0.00566464	0.00553950	0.00267669	0.00277806	0.00285849
21 OTHFOODPROD	0.01083599	0.00873764	0.00853335	0.01387858	0.01353377	0.00658132	0.00678890	0.00698836
22 TEXTILE MILL	0.02607206	0.00015696	0.00015255	0.00024817	0.00024333	0.00011800	0.00012751	0.00012638
23 FAB TEX MILL	0.00385689	0.00244412	0.00238171	0.00389309	0.00379926	0.00183518	0.00194244	0.00196612
24 LUM&WOOD PR	0.02047837	0.00098084	0.00066772	0.00100856	0.00108261	0.00061750	0.00197837	0.00059062
25 FURN & FIX	1.00061868	0.00044552	0.00041835	0.00063776	0.00066644	0.00033997	0.00046283	0.00036298
26 PAPER EX BOX	0.01182460	1.00959572	0.01657105	0.00326949	0.00217006	0.00257401	0.00447815	0.00056665
27 BOXS&CONTAIN	0.01275784	0.01664055	1.00157483	0.00227349	0.01304253	0.02123643	0.00355737	0.00123336
28 NEWSPAPERS	0.00370474	0.00259837	0.00237506	1.00406439	0.00396262	0.00196095	0.00198403	0.00372322
29 PUB&PRINTING	0.00330527	0.00609896	0.01453444	0.02457554	1.08113093	0.01456096	0.00209226	0.00238682
30 DRUGS,SPS&CL	0.00119779	0.00097677	0.00093387	0.00153571	0.00156130	1.00181253	0.00155025	0.00077793
31 OTH CHEMICAL	0.01001910	0.01934495	0.00112858	0.01183048	0.00936895	0.00156226	1.05815617	0.00419825
32 PET REF	0.00043678	0.00039870	0.00040321	0.00064084	0.00054224	0.00026733	0.00036886	1.00033442
33 RUBBER PROD	0.00092711	0.00025034	0.00023577	0.00040033	0.00040321	0.00018510	0.00021177	0.00026802
34 PLASTIC PROD	0.01259608	0.00034713	0.00038652	0.00051307	0.00052797	0.00231645	0.00203493	0.00029693
35 LEATHER PROD	0.00013248	0.00010617	0.00010356	0.00016933	0.00016527	0.00007980	0.00008288	0.00008536
36 GLS,ST,CL&CN	0.00107420	0.00083048	0.00062349	0.00092458	0.00108540	0.00084459	0.00376501	0.00094167
37 PRIMARY MET	0.00113542	0.00081264	0.00082584	0.01433406	0.00164235	0.00047690	0.00183875	0.00065575
38 FAB STEEL	0.00000081	0.00000114	0.00000105	0.00000107	0.00000107	0.00000048	0.00000143	0.00000075
39 PLATE WORK	0.00001001	0.00001342	0.00001118	0.00001239	0.00001832	0.00000531	0.00009344	0.00001051
40 SH METAL&ARC	0.00165318	0.00007715	0.00014091	0.00010189	0.00010801	0.00005218	0.00009134	0.00005860
41 METAL DOORS	0.00004600	0.00006242	0.00005747	0.00005854	0.00005862	0.00002686	0.00007935	0.00003875
42 FAB MET PROD	0.00038785	0.00031271	0.00030540	0.00049672	0.00048437	0.00023554	0.00024298	0.00025020
43 PLU,HEAT&REF	0.00047567	0.00052896	0.00051432	0.00061585	0.00061512	0.00028338	0.00058285	0.00036530
44 ELECTROPLAT	0.00009570	0.00006105	0.00001828	0.00013501	0.00020732	0.00004385	0.00011110	0.00001868
45 OTH FAB MET	0.00330007	0.00015837	0.00010998	0.00018715	0.00018066	0.00157099	0.00301962	0.00010060
46 FM,CN, ID MA	0.00001031	0.00001512	0.00000534	0.00001274	0.00001167	0.00000416	0.00049596	0.00000611
47 MIN MACH	0.00000011	0.00000011	0.00000008	0.00000014	0.00000012	0.00000009	0.00000017	0.00000304
48 MET WK MACH	0.00033511	0.00004108	0.00003816	0.00053843	0.00016161	0.00002625	0.00037337	0.00004009
49 IND PRO MACH	0.00001037	0.00001077	0.00001599	0.00002647	0.00071791	0.00001454	0.00001249	0.00001415
50 ENG&GEN MACH	0.00000984	0.00000478	0.00000503	0.00000877	0.00000877	0.00000489	0.00000597	0.00000246
51 OTH MAC&EQUIP	0.00007020	0.00006779	0.00141029	0.00005204	0.00046537	0.00005427	0.00064746	0.00002826
52 ELEC INS	0.00044648	0.00016258	0.00015205	0.00019662	0.00024267	0.00015774	0.00019623	0.00031828
53 ELEC COM	0.00008534	0.00004402	0.00004224	0.00008801	0.00007799	0.00004766	0.00004180	0.00011609
54 OTH ELEC APP	0.00012890	0.00010435	0.00010114	0.00016748	0.00017210	0.00007826	0.00008741	0.00008835
55 AIRCRAFT&ORD	0.00000663	0.00000531	0.00000518	0.00000848	0.00000827	0.00000399	0.00000415	0.00000427
56 AIRCRAFT PAR	0.00001663	0.00000983	0.00000921	0.00001862	0.00001494	0.00000791	0.00001248	0.00000857
57 MOTOR VECH	0.00309651	0.00255628	0.00236458	0.00388136	0.00389045	0.00187471	0.00211530	0.00248347

58	OTH TRAN EQ	0.00099342	0.00079616	0.00077660	0.00126977	0.00123935	0.00059837	0.00062148	0.00064032
59	PROF, SC&CONT	0.00043421	0.00035235	0.00034483	0.00055402	0.00057796	0.00027151	0.00030160	0.00047473
60	OTH MFG	0.00075343	0.00053775	0.00051457	0.00095793	0.00157004	0.00046686	0.00042687	0.00042362
61	RAIL TRANS	0.00473085	0.00493434	0.00695934	0.01503893	0.00512054	0.00342499	0.00552602	0.00736221
62	INTERCITY TR	0.00050772	0.00040655	0.00039672	0.00065041	0.00071843	0.00031044	0.00031983	0.00032650
63	MOTOR TRANS	0.00862872	0.01131166	0.00717659	0.02167420	0.01082013	0.00556242	0.01171939	0.02653900
64	AIR TRANS	0.00119462	0.00058304	0.00052783	0.00124520	0.000486768	0.00049434	0.00097063	0.00054007
65	PIPE TRANS	0.00000742	0.00000677	0.00000685	0.00001089	0.000000921	0.00000454	0.00000627	0.01699225
66	LOCAL TRANS	0.00088896	0.00071244	0.00069494	0.00113626	0.00110281	0.00053544	0.00055611	0.00057278
67	WARE&OTH TR	0.00067612	0.00033072	0.00036512	0.00103425	0.00073893	0.00024853	0.00029602	0.00036092
68	TELEP&TELEG	0.01088494	0.01046742	0.01042267	0.01713120	0.01539882	0.01203198	0.00854795	0.00741008
69	TV,RAD,COMM	0.00076840	0.00064347	0.00059461	0.00649237	0.00096767	0.00050758	0.00049290	0.00055626
70	GAS SERVICE	0.00926539	0.00923572	0.00695651	0.01195771	0.00974931	0.00733060	0.01235931	0.01245917
71	ELEC SERV	0.01596770	0.01745312	0.01187046	0.02153475	0.01977994	0.00925152	0.01314920	0.01434197
72	WT&SAN SER	0.00309393	0.00620845	0.00255087	0.00385918	0.00425820	0.00198026	0.00252677	0.00200771
73	WHL AUTO PTS	0.00139642	0.00121235	0.00134003	0.00269046	0.00165808	0.00082854	0.00103636	0.00129275
74	WHL GRO	0.00373111	0.00301049	0.00295377	0.00478554	0.00468376	0.00225684	0.00238872	0.00240961
75	WHL FM PROD	0.00012911	0.00009575	0.00009355	0.00015343	0.00014914	0.00007185	0.00007552	0.00007675
76	WHL MACH&EQP	0.00299872	0.00301374	0.00382755	0.00395912	0.00234114	0.00107173	0.00534135	0.00154992
77	WHL PETROLEM	0.00322775	0.00144165	0.00175075	0.00269472	0.00277271	0.00103248	0.00164596	0.00346577
78	GEN WHL	0.00792119	0.00591327	0.00492368	0.01183900	0.01424236	0.01193804	0.00761375	0.00417466
79	BLD MAT	0.00220178	0.00169888	0.00112537	0.00237136	0.00231792	0.00112269	0.00133055	0.00122494
80	RTL TRD-GEN	0.01490273	0.01194325	0.01165002	0.01904839	0.01860188	0.00897625	0.00932263	0.00960197
81	FOOD STORES	0.00993584	0.00800304	0.00780630	0.01276404	0.01245750	0.00601494	0.00624699	0.00643470
82	AUTO DL&REP	0.00826598	0.00619302	0.00631130	0.00980429	0.00838762	0.00421848	0.00426238	0.00678286
83	GAS SER STA	0.00284943	0.00222386	0.00213541	0.00405152	0.00409103	0.00168509	0.00214959	0.00180189
84	APP&ACCESS	0.00355022	0.00285329	0.00278317	0.00455064	0.00444140	0.00214463	0.00222722	0.00229393
85	FURNITURE	0.00291693	0.00233777	0.00228017	0.00372855	0.00363886	0.00175704	0.00182503	0.00187966
86	EAT&DRINK	0.01175520	0.00942724	0.00918477	0.01684269	0.01514654	0.00708958	0.00756544	0.00757797
87	OTH RETAIL	0.00897272	0.00709247	0.00691055	0.01130002	0.01104583	0.00535580	0.00585426	0.00571859
88	BK&CREDIT	0.01549844	0.01433221	0.00994027	0.01640420	0.02291056	0.00744156	0.01086385	0.01473235
89	INSURANCE	0.01510302	0.01274489	0.01358076	0.02018410	0.02134124	0.00958952	0.01163928	0.01103294
90	F.I.R.E	0.02491125	0.02773853	0.01421296	0.02874893	0.03246262	0.01302534	0.01330526	0.01396360
91	LEGAL SER	0.00177146	0.00207570	0.00140572	0.00243294	0.00335999	0.00612785	0.00166771	0.00390123
92	LODGE SER	0.00032398	0.00027783	0.00024400	0.00041992	0.00048769	0.00019780	0.00033119	0.00020873
93	PERSNL SER	0.00985342	0.00846243	0.00790186	0.01264312	0.01273800	0.00916726	0.00663874	0.00636604
94	ADV,DUP&AD	0.00674659	0.00313370	0.00173429	0.00589149	0.01342654	0.00310208	0.00519563	0.00254566
95	PHOTO&REC	0.00375930	0.00285737	0.00277866	0.00462630	0.00761919	0.00223388	0.00228413	0.00229825
96	OTH BUS SE	0.00607935	0.01002530	0.00532628	0.01659668	0.01363229	0.00874622	0.00459814	0.00695729
97	AUTO RENT,PK	0.00338620	0.00109649	0.00170206	0.00229538	0.00206155	0.00220780	0.00133120	0.00087839
98	REPAIR SER	0.00312188	0.00649204	0.00229091	0.00439582	0.00704939	0.00217673	0.00315161	0.00204660
99	PHYS&DEN	0.00729067	0.00583158	0.00576164	0.00930075	0.00913733	0.00438420	0.00455809	0.00469587
100	HOS&LAB SER	0.00609181	0.00513042	0.00511520	0.00773482	0.00776787	0.00378708	0.00389993	0.00399464
101	OTH MED SER	0.00329576	0.00264253	0.00257749	0.00421134	0.00411321	0.00198446	0.00206118	0.00212304
102	ELE&SECD SCH	0.01398029	0.01349858	0.01414579	0.01738698	0.01895153	0.00951187	0.00954379	0.00969788
103	COLL & UNIV	0.00403629	0.00331172	0.00321752	0.00508280	0.00507123	0.00246783	0.00267116	0.00429651
104	OTH ED SER	0.00216547	0.00175800	0.00172418	0.00276984	0.00271737	0.00131693	0.00136327	0.00139568
105	ENG & ARC	0.00015252	0.00016159	0.00010228	0.00018756	0.00044286	0.00008471	0.00011168	0.00009115
106	ACCT,ACD,&BK	0.00283701	0.00244843	0.00153795	0.00356533	0.00413212	0.00371994	0.00280706	0.00186525
107	OTH PROF SER	0.00046039	0.00033707	0.00032846	0.00131787	0.00218596	0.00027148	0.00114017	0.00036634
108	OTH SER	0.00878018	0.00734077	0.00650779	0.01188010	0.01100408	0.00566760	0.00631555	0.00648767
109	HOUSEHOLDS	0.44988740	0.36055094	0.35169381	0.57504146	0.56123336	0.27097800	0.28143840	0.28987166
TOTAL		1.89946809	1.73124805	1.66443564	2.10957767	2.12956810	1.55004280	1.62637299	1.63489982

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

	33	34	35	36	37	38	39	40
1 COTTON	0.00014572	0.00011166	0.00015963	0.00014948	0.00010212	0.00011957	0.00011694	0.00013049
2 CASH GRAINS	0.00083374	0.00063900	0.00091339	0.00085113	0.00058066	0.00068094	0.00066548	0.00074283
3 OTHER GRAINS	0.00059438	0.00045576	0.00065220	0.00060813	0.00041512	0.00048716	0.00047610	0.00053141
4 RANGE LVSTK.	0.00048462	0.00038320	0.00053069	0.00049572	0.00033750	0.00039595	0.00038671	0.00043194
5 FEED LVSTK.	0.00036000	0.00028507	0.00039407	0.00036825	0.00025066	0.00029404	0.00028717	0.00032076
6 DAIRY	0.00231343	0.00175970	0.00251854	0.00236477	0.00161063	0.00188726	0.00184220	0.00205851
7 POULTRY&EGGS	0.00111969	0.00087081	0.00123135	0.00114447	0.00078093	0.00091708	0.00089583	0.00100043
8 AGSUP EXFAMA	0.00037038	0.00028503	0.00040722	0.00037876	0.00025861	0.00030369	0.00029665	0.00033129
9 AG SERVICES	0.00055772	0.00042797	0.00061436	0.00057053	0.00038985	0.00045870	0.00044741	0.00049969
10 PET&NAT GAS	0.00212886	0.00158060	0.00136938	0.00137903	0.00201377	0.00114259	0.00169659	0.00125015
11 OILFIELD SER	0.00012314	0.00009059	0.00007890	0.00194313	0.00011893	0.00006577	0.00009736	0.00008387
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000164	0.00000113	0.00000149	0.00000190	0.00000169	0.00000113	0.00000221	0.00000110
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001457	0.00000990	0.00001276	0.00036347	0.00008302	0.00001130	0.00001883	0.00001198
16 MAINT&REPAIR	0.01063537	0.00728576	0.00984072	0.01016322	0.01080366	0.00742731	0.01470841	0.00720494
17 MEAT PROD	0.00675604	0.00539681	0.00737714	0.006691017	0.00469751	0.00550698	0.00537821	0.00600746
18 DAIRY PROD	0.00614787	0.00467061	0.00669226	0.00628422	0.00428029	0.00501534	0.00489553	0.00547041
19 GRN MILLPRD	0.00309382	0.00236832	0.00339898	0.00315578	0.00215463	0.00252802	0.00247054	0.00275799
20 BAKERY PROD	0.00478498	0.00365276	0.00523940	0.00489661	0.00334100	0.00392098	0.00382774	0.00427691
21 OTHFOODPRD	0.01168047	0.00895027	0.01279609	0.01198211	0.00818567	0.00958490	0.00937412	0.01045964
22 TEXTILE MILL	0.00024141	0.00016715	0.00022964	0.00022279	0.00014741	0.00017152	0.00017024	0.00019127
23 FAB TEX MILL	0.00381764	0.00251386	0.00361318	0.00350644	0.00229660	0.00269233	0.00263322	0.00293805
24 LUM&WOOD PR	0.00115820	0.00125500	0.00092598	0.00182857	0.00083275	0.00069523	0.00105763	0.00085191
25 FURN & FIX	0.00058035	0.00067919	0.00056529	0.00055471	0.00041560	0.00043678	0.00052376	0.00063537
26 PAPER EX BOX	0.00146678	0.00092779	0.00084373	0.00100060	0.00051079	0.00061042	0.00060638	0.00107257
27 BOXS&CONTAIN	0.00566757	0.01136280	0.00206253	0.00986822	0.00280792	0.00138255	0.00132892	0.00217547
28 NEWSPAPERS	0.00353541	0.00255615	0.00351695	0.00345485	0.00237376	0.00265599	0.00281557	0.00293115
29 PUB&PRINTING	0.00337521	0.00230467	0.00368686	0.00311678	0.00221196	0.00182280	0.00235367	0.00220276
30 DRUGS,SPS&CL	0.00136489	0.00124031	0.00141617	0.00136220	0.00090020	0.00104829	0.00104000	0.00114340
31 OTH CHEMICAL	0.02629792	0.00161652	0.02273627	0.00666057	0.00125431	0.00128845	0.00090940	0.00081715
32 PET REF	0.00049604	0.00036977	0.00050358	0.00056601	0.00050444	0.00038874	0.00042322	0.00040656
33 RUBBER PROD	1.00582370	0.00026662	0.00033798	0.00044990	0.00025656	0.00025330	0.00025821	0.00027241
34 PLASTIC PROD	0.00068898	1.00243167	0.00049422	0.00161638	0.00029834	0.00034853	0.00034005	0.00038256
35 LEATHER PROD	0.00014244	0.00010928	1.00548158	0.00014574	0.00009966	0.00011718	0.00011445	0.00012783
36 GLS,ST,CL&CN	0.00162382	0.00064982	0.00084006	1.06947926	0.00315924	0.00065796	0.00078002	0.00860832
37 PRIMARY MET	0.00492370	0.00069053	0.00078818	0.00548347	1.00229772	0.02461458	0.00092081	0.00064078
38 FAB STEEL	0.00000107	0.00000073	0.00000098	0.00000364	0.00000159	1.00000075	0.00000146	0.00000074
39 PLATE WORK	0.00092335	0.00000860	0.00001213	0.00001383	0.00001181	0.00000798	1.000091548	0.00000775
40 SH METAL&ARC	0.00021463	0.00209676	0.00009253	0.00030364	0.00021339	0.00007286	0.00008834	1.00007466
41 METAL DOORS	0.00005884	0.00004053	0.00005388	0.00005589	0.00005908	0.00004062	0.00008051	0.00003951
42 FAB MET PROD	0.00041808	0.00032039	0.00045795	0.00042883	0.00029296	0.00034305	0.00033549	0.00037434
43 PLU,HEAT&REF	0.00058009	0.00043035	0.00056884	0.00057104	0.00049886	0.00079364	0.00064181	0.00043841
44 ELECTROPLAT	0.00015786	0.00025934	0.00002065	0.00010023	0.00671390	0.00577347	0.00243227	0.00419349
45 OTH FAB MET	0.00168979	0.00172358	0.00020220	0.00079168	0.00015500	0.00013683	0.00068307	0.00034698
46 FM,CN, ID MA	0.00001891	0.00000578	0.00001719	0.00001460	0.00000556	0.00000551	0.00000634	0.00000574
47 MIN MACH	0.00000016	0.00000012	0.00000010	0.00000077	0.00000015	0.00000008	0.00000012	0.00000009
48 MET WK MACH	0.00009875	0.00129229	0.00004429	0.00005210	0.00004837	0.00002978	0.00025690	0.00003053
49 IND PRO MACH	0.00001127	0.00000823	0.00001215	0.00001704	0.00000780	0.00000836	0.00000873	0.00000937
50 ENG&GEN MACH	0.00018516	0.00030784	0.00000598	0.00023038	0.00000543	0.00000406	0.00000462	0.00000605
51 OTH MAC&EQUP	0.00098708	0.00167899	0.00004694	0.00005217	0.00003501	0.00002590	0.00004212	0.00002686
52 ELEC INS	0.00050450	0.00071916	0.00016319	0.00023798	0.00017848	0.00028312	0.00020923	0.00016788
53 ELEC COM	0.00010078	0.00009976	0.00005533	0.00006342	0.00004403	0.00005769	0.00005002	0.00004878
54 OTH ELEC APP	0.00015443	0.00010646	0.00015213	0.00015451	0.00009935	0.00011349	0.00011132	0.00012365
55 AIRCRAFT&ORD	0.00000713	0.00000547	0.00000787	0.00000729	0.00000499	0.00000587	0.00000573	0.00000640
56 AIRCRAFT PAR	0.00001519	0.00001019	0.00001529	0.00001508	0.00001194	0.00001003	0.00001036	0.00001087
57 MOTOR VECH	0.00321105	0.00279073	0.00344517	0.00351461	0.00231792	0.00262874	0.00260310	0.00309127

58	OTH TRAN EQ	0.00106816	0.00081943	0.00117941	0.00109295	0.00074733	0.00087868	0.00085826	0.00095853
59	PROF, SC&COND	0.00047183	0.00039180	0.00051255	0.00049905	0.00032848	0.00038619	0.00037565	0.00044027
60	OTH MFG	0.00074032	0.00075201	0.00075843	0.00092246	0.00051822	0.00056886	0.00056774	0.00062098
61	RAIL TRANS	0.00639366	0.00446639	0.00379314	0.01348139	0.01907991	0.00425746	0.00248840	0.00347447
62	INTERCITY TR	0.00056024	0.00042451	0.00060069	0.00090814	0.00038642	0.00044794	0.00043835	0.00050737
63	MOTOR TRANS	0.01347286	0.00753925	0.00852000	0.02158590	0.01906587	0.00534521	0.00852529	0.00492853
64	AIR TRANS	0.00099638	0.00060729	0.00094150	0.00096966	0.00083749	0.00055524	0.00060248	0.00059763
65	PIPE TRANS	0.00000843	0.00000628	0.00000855	0.00000961	0.00000857	0.00000660	0.00000719	0.00000691
66	LOCAL TRANS	0.00095582	0.00073327	0.00105540	0.00097797	0.00066874	0.00078629	0.00076800	0.00085774
67	WARE&OTH TR	0.00054856	0.00037869	0.00056022	0.00046789	0.00039930	0.00051774	0.00054325	0.00043381
68	TELEP&TELEG	0.01074627	0.00937972	0.00981567	0.01356295	0.00820433	0.00938166	0.00785767	0.00964953
69	TV,RAD,COMM	0.00291864	0.00063643	0.00084517	0.00092360	0.00062388	0.00064692	0.00071446	0.00070566
70	GAS SERVICE	0.01313251	0.00978510	0.00839033	0.03604028	0.01246004	0.00704317	0.01049827	0.00771201
71	ELEC SERV	0.03214591	0.01927902	0.01783680	0.02974281	0.02672229	0.01208631	0.01837149	0.01135008
72	WT&SAN SER	0.00404622	0.00329559	0.00339798	0.00353033	0.00260059	0.00248011	0.00372850	0.00288606
73	WHL AUTO PTS	0.00156375	0.00117777	0.00154915	0.00200451	0.00118286	0.00121464	0.00144461	0.00126357
74	WHL GRO	0.00403724	0.00307973	0.00441910	0.00414353	0.00281663	0.00330486	0.00322686	0.00360500
75	WHL FM PROD	0.00012857	0.00009965	0.00014111	0.00013149	0.00008969	0.00010528	0.00010283	0.00011485
76	WHL MACH&EQP	0.00583783	0.00369110	0.00217794	0.00907856	0.00246558	0.00411339	0.00254414	0.00231714
77	WHL PETROLEM	0.00201860	0.00164737	0.00200402	0.00293455	0.00143270	0.00143156	0.00157124	0.00189134
78	GEN WHL	0.03138526	0.01807432	0.00643353	0.00958439	0.01393834	0.00649698	0.00742053	0.03746294
79	BLD MAT	0.00472274	0.00153813	0.00219862	0.00206075	0.00152136	0.00164048	0.00173154	0.00177269
80	RTL TRD-GEN	0.01602320	0.01229240	0.01769252	0.01639463	0.01121069	0.01318131	0.01049827	0.01437900
81	FOOD STORES	0.01073693	0.00823716	0.01185544	0.01098618	0.00751211	0.00883265	0.00862724	0.00963511
82	AUTO DL&REP	0.00740684	0.00632743	0.00741421	0.00986790	0.00504547	0.00585787	0.00665249	0.00690898
83	GAS SER STA	0.00484955	0.00229926	0.00323703	0.00315764	0.00235312	0.00270506	0.00241347	0.00286818
84	APP&ACCESS	0.00382802	0.00293667	0.00422677	0.00391674	0.00267834	0.00314904	0.00307578	0.00343518
85	FURNITURE	0.00313631	0.00240597	0.00346286	0.00322845	0.00219445	0.00257997	0.00251998	0.00281484
86	EAT&DRINK	0.01288605	0.00971223	0.01423157	0.01296216	0.00886244	0.01039051	0.01017527	0.01133811
87	OTH RETAIL	0.01336041	0.00770589	0.01050021	0.01000076	0.00668063	0.00783042	0.00764125	0.00852613
88	BK&CREDIT	0.01416092	0.00956627	0.01229149	0.01329841	0.01510646	0.01595857	0.01972971	0.01175359
89	INSURANCE	0.01693239	0.01400377	0.01807695	0.01741286	0.01614194	0.01568150	0.01598252	0.01665817
90	F.I.R.E	0.02340863	0.01938398	0.02117317	0.02386024	0.01445252	0.01574389	0.01706281	0.01911679
91	LEGAL SER	0.00350446	0.00142680	0.00272373	0.00333186	0.00192287	0.00277303	0.00474966	0.00178085
92	LODGE SER	0.00034607	0.00032821	0.00040843	0.00045553	0.00026829	0.00027358	0.00030509	0.00030264
93	PERSNL SER	0.01128479	0.00813946	0.01166792	0.01139142	0.00869039	0.00872017	0.00848718	0.00972883
94	ADV, DUP&AD	0.02437994	0.00621079	0.01031892	0.00407508	0.00227863	0.00287671	0.00442132	0.00171635
95	PHOTO&REC	0.00461836	0.00301374	0.00445395	0.00389909	0.00266925	0.00312671	0.00309410	0.00340696
96	OTH BUS SE	0.01118295	0.00570993	0.00544082	0.00871323	0.00802093	0.00558014	0.01636799	0.00576370
97	AUTO RENT,PK	0.00157559	0.00143780	0.00158482	0.00410955	0.00105249	0.00118256	0.00169960	0.00142069
98	REPAIR SER	0.00355237	0.01289922	0.00328594	0.00376148	0.00278263	0.00535880	0.00344433	0.00409168
99	PHYS&DEN	0.00782425	0.00600476	0.00863431	0.00806813	0.00555550	0.00644160	0.00629260	0.00702407
100	HOS&LAB SER	0.00681616	0.00504994	0.00708007	0.00700409	0.00470933	0.00546487	0.00531828	0.00595665
101	OTH MED-SER	0.00354241	0.00271798	0.00391032	0.00362667	0.00248087	0.00291357	0.00284618	0.00317861
102	ELE&SECD SCH	0.01750393	0.01174053	0.01492236	0.01813478	0.01167033	0.01301312	0.01248887	0.01415936
103	COLL & UNIV	0.00439298	0.00328774	0.00478863	0.00486119	0.00310097	0.00354556	0.00355492	0.00393007
104	OTH ED SER	0.00235366	0.00183448	0.00255252	0.00241091	0.00164079	0.00191755	0.00186190	0.00209644
105	ENG & ARC	0.00015403	0.00018439	0.00013876	0.00042199	0.00009876	0.00560343	0.00010976	0.00012349
106	ACCT, ACD, & BK	0.00287556	0.00279915	0.00347928	0.00300518	0.00233509	0.00208375	0.00176101	0.00251341
107	OTH PROF SER	0.00187972	0.00041960	0.00056469	0.00114290	0.00037377	0.00035781	0.00040624	0.00036223
108	OTH SER	0.00945909	0.00696124	0.00977841	0.00977324	0.00696205	0.00752112	0.00744326	0.00938912
109	HOUSEHOLDS	0.48372088	0.37109260	0.53411577	0.49493372	0.33843708	0.39792800	0.38867159	0.43408477
TOTAL		1.98828469	1.71420364	1.93879673	2.04722624	1.68486590	1.73256301	1.72942467	1.78981184

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

	41	42	43	44	45	46	47	48
1 COTTON	0.00013137	0.00007613	0.00007911	0.00018170	0.00013282	0.00013109	0.00012687	0.00022111
2 CASH GRAINS	0.00074862	0.00044042	0.00045138	0.00102380	0.00076217	0.00075016	0.00072130	0.00126623
3 OTHER GRAINS	0.00053483	0.00031048	0.00032256	0.00073217	0.00054168	0.00053451	0.00051616	0.00090214
4 RANGE LVSTK.	0.00043519	0.00025480	0.00026257	0.00059445	0.00044230	0.00043556	0.00041935	0.00073514
5 FEED LVSTK.	0.00032323	0.00018938	0.00019501	0.00044144	0.00032859	0.00032352	0.00031142	0.00054602
6 DAIRY	0.00207704	0.00121374	0.00124958	0.00282941	0.00210845	0.00207422	0.00199921	0.00350007
7 POULTRY&EGGS	0.00100670	0.00058816	0.00060774	0.00137769	0.00102244	0.00100830	0.00097120	0.00170224
8 AGSUP EXFAMA	0.00033328	0.00019380	0.00020110	0.00045629	0.00033784	0.00033341	0.00032167	0.00056282
9 AG SERVICES	0.00050230	0.00029094	0.00030318	0.00068830	0.00050844	0.00050232	0.00048518	0.00084801
10 PET&NAT GAS	0.00127390	0.00108669	0.00083409	0.00265751	0.00142851	0.00123434	0.00121968	0.00194924
11 OILFIELD SER	0.00007323	0.00006254	0.00004802	0.00015223	0.00008214	0.00007143	0.00007022	0.00011219
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000133	0.00000093	0.00000114	0.00000212	0.00000126	0.00000142	0.00000146	0.00000231
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001149	0.00000917	0.00000998	0.00001786	0.00001269	0.00001507	0.00001252	0.00001978
16 MAINT&REPAIR	0.00873909	0.00610155	0.00756002	0.01377627	0.00824258	0.00936568	0.00969207	0.01530707
17 MEAT PROD	0.00605926	0.00356446	0.00365468	0.00826550	0.00616905	0.00606614	0.00583239	0.01023711
18 DAIRY PROD	0.00551978	0.00322510	0.00332054	0.00751885	0.00560290	0.00551193	0.00531289	0.00930088
19 GRN MILLPROD	0.00277815	0.00164034	0.00167612	0.00380497	0.00283291	0.00278840	0.00276774	0.00470768
20 BAKERY PROD	0.00430603	0.00248849	0.00259419	0.00588204	0.00435626	0.00429658	0.00415349	0.00724994
21 OTHFOODPROD	0.01053045	0.00610273	0.00634151	0.01456529	0.01064683	0.01050810	0.01017011	0.01772382
22 TEXTILE MILL	0.00018797	0.00010937	0.00011735	0.00026329	0.00019204	0.00018862	0.00018300	0.00031730
23 FAB TEX MILL	0.00295152	0.00170910	0.00178613	0.00405045	0.00298604	0.00295288	0.00285305	0.00498580
24 LUM&WOOD PR	0.00084814	0.00058616	0.00070209	0.00129818	0.00095310	0.00083852	0.00085508	0.00133890
25 FURN & FIX	0.00047657	0.00029656	0.00042810	0.00086063	0.00055490	0.00049854	0.00051099	0.00079646
26 PAPER EX BOX	0.00083723	0.00231491	0.00081780	0.00132873	0.00089089	0.00111677	0.00066601	0.00093122
27 BOXS&CONTAIN	0.01193740	0.01073751	0.01132458	0.00210913	0.00430366	0.00234492	0.00147724	0.00248192
28 NEWSPAPERS	0.00302519	0.00174502	0.00185644	0.00403691	0.00301222	0.00304444	0.00287448	0.00493171
29 PUB&PRINTING	0.00354767	0.00615610	0.00421046	0.00308878	0.00356887	0.00321411	0.00521398	0.00384248
30 DRUGS, SPS&CL	0.00115265	0.00068606	0.00070668	0.00115743	0.00116720	0.00111534	0.00111513	0.00194188
31 OTH CHEMICAL	0.00090017	0.01741676	0.00537692	0.00120190	0.00165579	0.00298274	0.00157446	0.00136428
32 PET REF	0.00042529	0.00029384	0.00028902	0.00057811	0.00045625	0.00045886	0.00040269	0.00072690
33 RUBBER PROD	0.00027846	0.00082789	0.00665138	0.00045075	0.00029951	0.00043709	0.00082395	0.00046677
34 PLASTIC PROD	0.00039128	0.00656251	0.01661079	0.00051862	0.00067134	0.00038147	0.00037091	0.00063355
35 LEATHER PROD	0.00012839	0.00007414	0.00007754	0.00017606	0.00012982	0.00012839	0.00012411	0.00021678
36 GLS, ST, CL&CN	0.00067268	0.00061641	0.00048907	0.00104006	0.00076809	0.00096390	0.00071065	0.00111413
37 PRIMARY MET	0.00343577	0.01827333	0.00233193	0.00100044	0.00293092	0.04205493	0.00071250	0.00157897
38 FAB STEEL	0.00000087	0.00000062	0.00000076	0.00000137	0.00000084	0.00000096	0.00000097	0.00000153
39 PLATE WORK	0.00000932	0.00000837	0.00001422	0.00001468	0.00000891	0.000063473	0.00001084	0.00001632
40 SH METAL&ARC	0.00007843	0.01183847	0.00129995	0.00011139	0.00008150	0.00008511	0.00007838	0.00013203
41 METAL DOORS	1.00303478	0.00003457	0.00005123	0.00007536	0.00046350	0.00005143	0.00005298	0.00008415
42 FAB MET PROD	0.00037687	1.00021841	0.00022709	0.00052130	0.00038105	0.00037613	0.00036399	0.00063431
43 PLU, HEAT&REF	0.00048595	0.00031357	1.00036285	0.00071954	0.00047353	0.00050496	0.00051034	0.00083765
44 ELECTROPLAT	0.00850819	0.01118442	0.00092391	1.00144087	0.02074488	0.00082889	0.00003655	0.00370873
45 OTH FAB MET	0.05496482	0.00273873	0.02384070	0.00037273	1.00260737	0.00040571	0.00017511	0.00020101
46 FM, CN, ID MA	0.00000602	0.00001162	0.00000608	0.00000925	0.00000669	1.00013180	0.00000626	0.00000996
47 MIN MACH	0.00000009	0.00000008	0.00000006	0.00000019	0.00000010	0.00000009	1.00000009	0.00000014
48 MET WK MACH	0.00394295	0.00004010	0.00005154	0.00004459	0.00023218	0.00199654	0.00512107	1.00091602
49 IND PRO MACH	0.00001029	0.00000908	0.00000765	0.00001274	0.00001049	0.00001006	0.00001101	0.00001575
50 ENG&GEN MACH	0.00000489	0.00000658	0.00000959	0.00000659	0.00000544	0.00000602	0.00000484	0.00001243
51 OTH MAC&EQUP	0.00004451	0.00005602	0.00006081	0.00004502	0.00003422	0.00003415	0.00003343	0.00005079
52 ELEC INS	0.00015434	0.00011037	0.00012443	0.00049203	0.00029876	0.00069587	0.00030245	0.00024543
53 ELEC COM	0.00004836	0.00003111	0.00014325	0.00009442	0.00006353	0.00010258	0.00006151	0.00008017
54 OTH ELEC APP	0.00012483	0.00007596	0.00007600	0.00017079	0.00012728	0.00012705	0.00016550	0.00020984
55 AIRCRAFT&ORD	0.00000643	0.00000371	0.00000388	0.00000881	0.00000650	0.00000643	0.00000621	0.00001085
56 AIRCRAFT PAR	0.00001201	0.00001169	0.00000818	0.00001542	0.00001342	0.00001629	0.00001081	0.00003927
57 MOTOR VECH	0.00285695	0.00184921	0.00178782	0.00468980	0.00332263	0.00438205	0.00312383	0.00513334

58 OTH TRAN EQ	0.00096274	0.00055600	0.00058143	0.00132021	0.00097351	0.00096279	0.00093062	0.00162554
59 PROF, SC&CONT	0.00042448	0.00024586	0.00025604	0.00057516	0.00044400	0.00042140	0.00040856	0.00070963
60 OTH MFG	0.00063674	0.00037952	0.00043339	0.00085438	0.00066895	0.00071607	0.00065436	0.00105275
61 RAIL TRANS	0.00406754	0.00681800	0.00405248	0.00343503	0.00756397	0.00726930	0.00189903	0.00736977
62 INTERCITY TR	0.00049168	0.00071895	0.00030724	0.00068892	0.00050474	0.00049427	0.00047760	0.00082699
63 MOTOR TRANS	0.00691325	0.02412068	0.00702313	0.00757013	0.01227308	0.02520627	0.00777586	0.01050824
64 AIR TRANS	0.00071735	0.00092447	0.00053310	0.00087218	0.00086225	0.00117672	0.00060839	0.00324825
65 PIPE TRANS	0.00000722	0.00000499	0.00000491	0.00000982	0.00000775	0.00000779	0.00000684	0.00001235
66 LOCAL TRANS	0.00086150	0.00049751	0.00052028	0.00118141	0.00087113	0.00086155	0.00083277	0.00145462
67 WARE&OTH TR	0.00076334	0.00068897	0.00046851	0.00056990	0.00092049	0.00050315	0.00053423	0.00058820
68 TELEP&TELEG	0.01179983	0.00937845	0.00643605	0.01546152	0.01324245	0.01098051	0.00929452	0.01759276
69 TV,RAD,COMM	0.00073305	0.00044374	0.00046155	0.00101514	0.00075308	0.00084723	0.00070634	0.00119240
70 GAS SERVICE	0.00785564	0.00668571	0.00513156	0.01646571	0.00881294	0.00759598	0.00752105	0.01200144
71 ELEC SERV	0.01490597	0.01213743	0.00833039	0.03498078	0.01739991	0.01765549	0.01752114	0.02656499
72 WT&SAN SER	0.00314012	0.00219785	0.00194404	0.00662373	0.00403540	0.00297447	0.00296111	0.00471790
73 WHL AUTO PTS	0.00134500	0.00121221	0.00090782	0.00170288	0.00141549	0.00256076	0.00209687	0.00208616
74 WHL GRO	0.00363095	0.00211133	0.00218759	0.00495836	0.00367821	0.00362751	0.00350571	0.00612301
75 WHL FM PROD	0.00011561	0.00006734	0.00006974	0.00015812	0.00011726	0.00011564	0.00011151	0.00019520
76 WHL MACH&EQP	0.00170744	0.00294880	0.00121552	0.00708385	0.00640905	0.00566595	0.00442470	0.01452625
77 WHL PETROLEM	0.00169430	0.00240890	0.00129122	0.00246984	0.00181229	0.00257337	0.00147811	0.00306213
78 GEN WHL	0.00786368	0.01726698	0.02293666	0.03963293	0.02257505	0.01299241	0.01254038	0.00921970
79 BLD MAT	0.00180734	0.00111049	0.00114829	0.00251274	0.00181953	0.00184203	0.00177045	0.00306111
80 RTL TRD-GEN	0.01444214	0.00834017	0.00872195	0.01980499	0.01460360	0.01444286	0.01396050	0.02438507
81 FOOD STORES	0.00967743	0.00558875	0.00584440	0.01327136	0.00978591	0.00967852	0.00935465	0.01634005
82 AUTO DL&REP	0.00688992	0.00410100	0.00396325	0.00950233	0.00744051	0.00698099	0.00590856	0.01058701
83 GAS SER STA	0.00355381	0.00199884	0.00173063	0.00391519	0.00288884	0.00307554	0.00256559	0.00487662
84 APP&ACCESS	0.00345025	0.00199249	0.00208368	0.00473144	0.00348882	0.00345043	0.00333518	0.00582563
85 FURNITURE	0.00282750	0.00163242	0.00170714	0.00387637	0.00285832	0.00282694	0.00273243	0.00477315
86 EAT&DRINK	0.01146194	0.00724709	0.00693458	0.01567464	0.01201942	0.01171673	0.01098652	0.01981263
87 OTH RETAIL	0.00857560	0.00496716	0.00524625	0.01174697	0.00880824	0.00882363	0.00828024	0.01446395
88 BK&CREDIT	0.02384781	0.01068310	0.01155261	0.01660716	0.01570263	0.01283033	0.01451380	0.02032235
89 INSURANCE	0.02073004	0.02198526	0.00881882	0.03174959	0.01993382	0.02380471	0.01271331	0.02976960
90 F.I.R.E	0.03117165	0.01287913	0.01360353	0.02499096	0.02103193	0.02208837	0.01728857	0.03669479
91 LEGAL SER	0.00208231	0.00156662	0.00117809	0.00688218	0.00302499	0.01254574	0.00181522	0.00278135
92 LODGE SER	0.00036666	0.00130305	0.00019798	0.00047464	0.00073376	0.00079894	0.00028232	0.00165663
93 PERSNL SER	0.00953002	0.00581643	0.00578521	0.01304769	0.00968404	0.00963405	0.00919362	0.01607602
94 ADV,DUP&AD	0.00661154	0.00332835	0.01150685	0.00401181	0.00308093	0.00545036	0.00208402	0.00327295
95 PHOTO&REC	0.00351430	0.00203693	0.00228778	0.00471083	0.00347828	0.00347598	0.00330376	0.00575382
96 OTH BUS SE	0.00708764	0.00386408	0.00699340	0.00759436	0.00647512	0.00643337	0.00893089	0.00934988
97 AUTO RENT,PK	0.00150987	0.00089459	0.00094752	0.00189222	0.00502124	0.00310021	0.00127318	0.00218579
98 REPAIR SER	0.00380932	0.00515304	0.00220218	0.01256139	0.01155259	0.00909520	0.00346681	0.00651603
99 PHYS&DEN	0.00706924	0.00411816	0.00425674	0.00970413	0.00714591	0.00708192	0.00680758	0.01192019
100 HOS&LAB SER	0.00610845	0.00349030	0.00360613	0.00807595	0.00614015	0.00597077	0.00579461	0.01001520
101 OTH MED SER	0.00319555	0.00184556	0.00192834	0.00437882	0.00322902	0.00319425	0.00308541	0.00539172
102 ELE&SECD SCH	0.01520245	0.00852637	0.00854245	0.01858262	0.01528471	0.01406284	0.01386830	0.02328894
103 COLL & UNIV	0.00396999	0.00252078	0.00242983	0.00520614	0.00406496	0.00395746	0.00375718	0.00656664
104 OTH ED SER	0.00213362	0.00122628	0.00132413	0.00286673	0.00212945	0.00211024	0.00203896	0.00356123
105 ENG & ARC	0.00018148	0.00008171	0.00009734	0.00016129	0.00013199	0.00015868	0.000380815	0.00022745
106 ACCT,ACD,&BK	0.00478838	0.00305958	0.00183237	0.00257352	0.00475458	0.00269282	0.00177628	0.00623155
107 OTH PROF SER	0.00052533	0.00044277	0.00040666	0.00065120	0.00045107	0.00056146	0.00034257	0.00625989
108 OTH SER	0.01115263	0.00482129	0.00498260	0.01112662	0.00821714	0.00841140	0.00780307	0.01501123
109 HOUSEHOLDS	0.43599054	0.25177820	0.26330415	0.59788904	0.44086487	0.43601230	0.42144996	0.73615600
TOTAL	1.88515474	1.60500191	1.56386633	2.11579610	1.88654969	1.88062642	1.75612979	2.30471532

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

	49	50	51	52	53	54	55	56
1 COTTON	0.00015497	0.00013181	0.00016816	0.00019148	0.00016512	0.00014774	0.00012755	0.00009522
2 CASH GRAINS	0.00088072	0.00075221	0.00096187	0.00108856	0.00093874	0.00084168	0.00072636	0.00054259
3 OTHER GRAINS	0.00063051	0.00053801	0.00068620	0.00077901	0.00067201	0.00060203	0.00051949	0.00038859
4 RANGE LVSTK.	0.00051198	0.00043729	0.00055855	0.00063279	0.00054581	0.00049076	0.00042253	0.00031553
5 FEED LVSTK.	0.00038015	0.00032470	0.00041481	0.00046990	0.00040529	0.00036451	0.00031381	0.00023427
6 DAIRY	0.00243546	0.00207758	0.00265432	0.00301274	0.00259839	0.00232993	0.00201646	0.00149928
7 POULTRY&EGGS	0.00118750	0.00101449	0.00129454	0.00146645	0.00126531	0.00113484	0.00097753	0.00073232
8 AGSUP EXFAMA	0.00039325	0.00033575	0.00042809	0.00048562	0.00041904	0.00037538	0.00032372	0.00024248
9 AG SERVICES	0.00059353	0.00050670	0.00064540	0.00073263	0.00063234	0.00056598	0.00048806	0.00036609
10 PET&NAT GAS	0.00139632	0.00152909	0.00158644	0.00163485	0.00132958	0.00119821	0.00096632	0.00093149
11 OILFIELD SER	0.00008058	0.00011806	0.00009218	0.00009456	0.00007690	0.00011461	0.00005595	0.00005378
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000224	0.00000116	0.00000149	0.00000264	0.00000207	0.00000164	0.00000157	0.00000145
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001964	0.00001868	0.00002184	0.00014845	0.00012544	0.00003098	0.00003224	0.00001496
16 MAINT&REPAIR	0.01500686	0.00752098	0.00908059	0.01727454	0.00968415	0.01064511	0.01043359	0.00967965
17 MEAT PROD	0.00711370	0.00607676	0.00777163	0.00879771	0.00758623	0.00683322	0.00588080	0.00438219
18 DAIRY PROD	0.00647196	0.00552073	0.00705319	0.00800609	0.00690501	0.00619096	0.00535880	0.00398407
19 GRN MILLPRD	0.00327283	0.00279684	0.00357697	0.00404279	0.00348698	0.00312451	0.00269479	0.00201694
20 BAKERY PROD	0.00506849	0.00432511	0.00551352	0.00626443	0.00540447	0.00484049	0.00418312	0.00312437
21 OTHFOODPRD	0.01242199	0.01056592	0.01347957	0.01534866	0.01323611	0.01184288	0.01022413	0.00763274
22 TEXTILE MILL	0.00022442	0.00019062	0.00024131	0.00027645	0.00023901	0.00021492	0.00018539	0.00013795
23 FAB TEX MILL	0.00349175	0.00298449	0.00379446	0.00431025	0.00372075	0.00336133	0.00288172	0.00215381
24 LUM&WOOD PR	0.00573846	0.00086103	0.00201937	0.00152895	0.00133384	0.00101322	0.00106908	0.00087814
25 FURN & FIX	0.00064280	0.00050352	0.00059943	0.00077128	0.00068022	0.00057741	0.00053834	0.00037781
26 PAPER EX BOX	0.00148408	0.00091525	0.00080731	0.00101284	0.00089978	0.00080860	0.00105871	0.00040894
27 BOXS&CONTAIN	0.00182718	0.00154475	0.00192850	0.00299598	0.00248306	0.00340560	0.00217800	0.00114460
28 NEWSPAPERS	0.00343578	0.00294353	0.00390961	0.00442672	0.00369255	0.00342699	0.00293761	0.00212074
29 PUB&PRINTING	0.00456638	0.00282724	0.00364842	0.00630535	0.00453764	0.00478084	0.00684955	0.00206986
30 DRUGS,SPS&CL	0.00135722	0.00115824	0.00148685	0.00169988	0.00159723	0.00134814	0.00122720	0.00083551
31 OTH CHEMICAL	0.00156774	0.00095915	0.00110602	0.00384105	0.01938680	0.01734624	0.00223773	0.00068193
32 PET REF	0.00054355	0.00042016	0.00051597	0.00069444	0.00055282	0.00055267	0.00041585	0.00033248
33 RUBBER PROD	0.00034789	0.00032941	0.00045111	0.00258328	0.00036193	0.00064411	0.00327814	0.00020371
34 PLASTIC PROD	0.00046704	0.00045107	0.00079123	0.00355898	0.00089429	0.01264890	0.00250502	0.00101235
35 LEATHER PROD	0.00015195	0.00012973	0.00016510	0.00018747	0.00016184	0.00014477	0.00012478	0.00009377
36 GLS,ST,CL&CN	0.00093979	0.00207756	0.00148933	0.00124304	0.00100916	0.00148426	0.00077499	0.00064453
37 PRIMARY MET	0.00426122	0.00481742	0.00215344	0.06209624	0.00262741	0.24837642	0.00357873	0.03767735
38 FAB STEEL	0.00000150	0.00000082	0.00000245	0.00000267	0.00001026	0.00000119	0.00000018	0.00000098
39 PLATE WORK	0.00066944	0.00239135	0.00001098	0.00002507	0.00005895	0.00001304	0.00070887	0.00001019
40 SH METAL&ARC	0.00011590	0.00391884	0.02096701	0.00020790	0.00077938	0.00038151	0.00026193	0.00007240
41 METAL DOORS	0.00008204	0.00004337	0.00004993	0.00009879	0.00005610	0.00005884	0.00005796	0.00005288
42 FAB MET PROD	0.00044473	0.00038010	0.00048320	0.00066777	0.00167874	0.00042388	0.00055142	0.00027317
43 PLU,HEAT&REF	0.00072002	0.00045606	0.01367314	0.00088966	0.00101802	0.00057588	0.00157145	0.00045385
44 ELECTROPLAT	0.00201285	0.00707721	0.00014491	0.00214330	0.00069690	0.00265451	0.00067276	0.00056422
45 OTH FAB MET	0.00022310	0.00534199	0.00053843	0.01014549	0.00689597	0.01013876	0.00138766	0.00009484
46 FM,CN, ID MA	0.00012516	0.00000613	0.00000753	0.00001016	0.00001582	0.00001485	0.00025804	0.00000460
47 MIN MACH	0.00000010	0.00000012	0.00000012	0.00000012	0.00000015	0.00000015	0.00000007	0.00000007
48 MET WK MACH	0.00649679	0.00018698	0.00211252	0.00008381	0.00024560	0.00021184	0.00063215	0.00002699
49 IND PRO MACH	1.00951414	0.00000986	0.00001247	0.00001886	0.00004709	0.00001227	0.00048318	0.00000708
50 ENG&GEN MACH	0.00269097	1.00019902	0.00000710	0.00001744	0.00007165	0.00004538	0.00003219	0.00000402
51 OTH MAC&EQUP	0.00006675	0.00005531	1.00794314	0.00058641	0.00536120	0.00031284	0.00054484	0.00003042
52 ELEC INS	0.00155504	0.01587219	0.00554432	1.00083408	0.00184084	0.00055428	0.00221953	0.00012641
53 ELEC COM	0.00019293	0.00169194	0.00071915	0.09920367	1.00843837	0.00009292	0.01509120	0.00003659
54 OTH ELEC APP	0.00026716	0.00012893	0.00016056	0.00030309	0.00138768	1.00294701	0.00030012	0.00009203
55 AIRCRAFT&ORD	0.00000761	0.00000649	0.00000826	0.00000938	0.00000810	0.00000725	1.00040775	0.00000469
56 AIRCRAFT PAR	0.00001606	0.00001317	0.00001790	0.00002883	0.00002740	0.00001834	0.04263616	1.00000945
57 MOTOR VECH	0.00357640	0.00296276	0.00396917	0.00421278	0.00355847	0.00334585	0.00289801	0.00208306

58 OTH TRAN EQ	0.00113943	0.00099390	0.00123802	0.00140574	0.00121356	0.00108560	0.00095915	0.00070313
59 PROF, SC&CONT	0.00050592	0.00343403	0.00054313	0.00089931	0.00343660	0.00047972	0.00217760	0.00030534
60 OTH MFG	0.00076819	0.00066509	0.00082410	0.00168508	0.00086901	0.00080971	0.00061788	0.00048608
61 RAIL TRANS	0.00522057	0.00418185	0.00352738	0.01011104	0.00410168	0.01205797	0.00251868	0.00252230
62 INTERCITY TR	0.00191485	0.00050580	0.00063149	0.00071893	0.00062108	0.00055539	0.00047991	0.00035858
63 MOTOR TRANS	0.00717379	0.01173755	0.00787817	0.00876566	0.00509636	0.00947838	0.00344974	0.00394784
64 AIR TRANS	0.00104757	0.00083583	0.00118598	0.00225892	0.00222011	0.00132386	0.00141774	0.00059658
65 PIPE TRANS	0.00000923	0.00000714	0.00000876	0.00001180	0.00000890	0.00000939	0.00000706	0.00000565
66 LOCAL TRANS	0.00101958	0.00087053	0.00110785	0.00125793	0.00108597	0.00097144	0.00083731	0.00062920
67 WARE&OTH TR	0.00080051	0.00040513	0.00047811	0.00064683	0.00131786	0.00045512	0.00065021	0.00286393
68 TELEP&TELEG	0.01189385	0.01454922	0.01356717	0.01944331	0.01074390	0.01173749	0.00742074	0.00891836
69 TV,RAD,COMM	0.00084326	0.00072646	0.00095839	0.00106888	0.00087553	0.00085821	0.00069640	0.00059728
70 GAS SERVICE	0.00859026	0.00945193	0.00978637	0.01003947	0.00814312	0.01221877	0.00593279	0.00573878
71 ELEC SERV	0.01849393	0.01774932	0.02056172	0.01801627	0.01869073	0.02941647	0.01096173	0.00981479
72 WTSAN SER	0.00330625	0.00329572	0.00395709	0.00427193	0.00330555	0.00429785	0.00245191	0.00212076
73 WHL AUTO PTS	0.00154051	0.00142795	0.00178115	0.00290960	0.00159109	0.00152084	0.00111698	0.00104171
74 WHL GRO	0.00427396	0.00364645	0.00464912	0.00545593	0.00408109	0.00532851	0.00352851	0.00263301
75 WHL FM PROD	0.00013625	0.00011633	0.00014840	0.00016831	0.00014522	0.00013026	0.00011228	0.00008399
76 WHL MACH&EQP	0.00919604	0.00254534	0.00793653	0.00379480	0.00131081	0.00289806	0.00499690	0.00234365
77 WHL PETROLEM	0.00180506	0.00160703	0.00183087	0.00228610	0.00194454	0.00177974	0.00185876	0.00106087
78 GEN WHL	0.01158087	0.01321426	0.00912632	0.01360181	0.01174002	0.01071090	0.00764282	0.00557575
79 BLD MAT	0.00222350	0.00180506	0.00228815	0.00272508	0.00226406	0.00206654	0.00188354	0.00137798
80 RTL TRD-GEN	0.01709223	0.01459355	0.01857190	0.02108836	0.01820990	0.01628516	0.01404094	0.01054777
81 FOOD STORES	0.01145332	0.00977893	0.01244474	0.01413057	0.01219903	0.01094137	0.00940649	0.00706786
82 AUTO DL&REP	0.00753217	0.00669214	0.00816716	0.00904472	0.00753320	0.00711375	0.00575832	0.00448040
83 GAS SER STA	0.00325128	0.00271856	0.00360093	0.00392781	0.00332211	0.00308897	0.00256001	0.00193046
84 APP&ACCESS	0.00408339	0.00348646	0.00436888	0.00533793	0.00434928	0.00394842	0.00335339	0.00251988
85 FURNITURE	0.00334546	0.00285684	0.00363507	0.00413068	0.00359574	0.00318752	0.00274926	0.00206449
86 EAT&DRINK	0.01346561	0.01158822	0.01500441	0.01662983	0.01432534	0.01285185	0.01105342	0.00830292
87 OTH RETAIL	0.01013986	0.00870113	0.01104552	0.01257623	0.01081034	0.00975299	0.00855075	0.00636310
88 BK&CREDIT	0.02040019	0.01196885	0.01624488	0.03497898	0.01701942	0.02426138	0.00887907	0.00733622
89 INSURANCE	0.01835239	0.01395515	0.01814351	0.02134175	0.01662173	0.01848904	0.01434295	0.01068226
90 F.I.R.E	0.02027045	0.01785021	0.02548570	0.03537674	0.03018051	0.02529359	0.01738336	0.01448215
91 LEGAL SER	0.00291603	0.00277393	0.00347456	0.00331651	0.00635639	0.00307403	0.00133182	0.00125535
92 LODGE SER	0.00060451	0.00032571	0.00039092	0.00045148	0.00039064	0.00036154	0.00030959	0.00020645
93 PERSNL SER	0.01189322	0.01017487	0.01259666	0.01399994	0.01200635	0.01108436	0.00930945	0.00699593
94 ADV,DUP&AD	0.00297200	0.00237651	0.00656032	0.00685701	0.00252083	0.00511901	0.00247690	0.0020984
95 PHOTO&REC	0.00407676	0.00351966	0.00447993	0.00510888	0.00442705	0.00392516	0.00363228	0.00249891
96 OTH BUS SE	0.00595513	0.00510917	0.01680796	0.01505941	0.00671002	0.01155437	0.00559682	0.00382090
97 AUTO RENT,PK	0.00172007	0.00151198	0.00168103	0.00316357	0.00199995	0.00190282	0.00143417	0.00094705
98 REPAIR SER	0.01052866	0.00434271	0.00355998	0.00398116	0.00333747	0.00515141	0.00267210	0.00299418
99 PHYS&DEN	0.00878254	0.00765419	0.00906665	0.01030433	0.00892289	0.00895691	0.00686575	0.00515028
100 HOS&LAB SER	0.00692212	0.00586991	0.00754304	0.00863296	0.00742321	0.00670706	0.00608811	0.00442753
101 OTH MED SER	0.00379286	0.00324390	0.00410546	0.00466330	0.00402667	0.00363542	0.00310298	0.00233170
102 ELE&SECD SCH	0.01529863	0.01275590	0.01698810	0.01996819	0.01690291	0.01569123	0.01463032	0.00910102
103 COLL & UNIV	0.00452224	0.00386323	0.00497735	0.00560940	0.00480904	0.00448208	0.00399697	0.00283878
104 OTH ED SER	0.00246877	0.00211217	0.00270015	0.00307809	0.00264335	0.00236893	0.00205193	0.00152409
105 ENG & ARC	0.00531541	0.00422122	0.00497271	0.00023979	0.0042129	0.00016664	0.00088188	0.00009228
106 ACCT,ACD,&BK	0.00347034	0.00273146	0.00345822	0.00420249	0.00205726	0.00480138	0.00146173	0.00140852
107 OTH PROF SER	0.00864472	0.00923041	0.00931830	0.00791849	0.00080029	0.00430785	0.00063076	0.00129702
108 OTH SER	0.00984264	0.00849734	0.01052484	0.01196947	0.01090466	0.00938904	0.00853966	0.00593724
109 HOUSEHOLDS	0.51599130	0.44056141	0.56066285	0.63661702	0.54958799	0.49162880	0.42374941	0.31842422
TOTAL	1.96643627	1.86988040	2.05232974	2.34226750	2.00265046	2.31795831	1.80746542	1.59363376

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

	57	58	59	60	61	62	63	64
1 COTTON	0.00004397	0.00016396	0.00011259	0.00015918	0.00021656	0.00020990	0.00019849	0.00026748
2 CASH GRAINS	0.00025019	0.00093385	0.00064192	0.00090088	0.00112452	0.00119735	0.00113036	0.00152572
3 OTHER GRAINS	0.00017902	0.00066805	0.00045878	0.00064397	0.00080196	0.00085528	0.00080624	0.00109214
4 RANGE LVSTK.	0.00014544	0.00054270	0.00037316	0.00052344	0.00064703	0.00069589	0.00065654	0.00088711
5 FEED LVSTK.	0.00010800	0.00040299	0.00027714	0.00038876	0.00048073	0.00051680	0.00048765	0.00065866
6 DAIRY	0.00069298	0.00258108	0.00178079	0.00249784	0.00310461	0.00331100	0.00312966	0.00421223
7 POULTRY&EGGS	0.00033702	0.00125835	0.00086368	0.00121112	0.00149085	0.00161223	0.00151891	0.00205928
8 AGSUP EXFAMA	0.00011161	0.00041658	0.00028596	0.00040114	0.00049572	0.00053348	0.00050256	0.00068164
9 AG SERVICES	0.00016837	0.00062853	0.00043110	0.00060469	0.00074543	0.00080449	0.00075721	0.00102911
10 PETENAT GAS	0.00047123	0.00152988	0.00103627	0.00178604	0.00208487	0.00203896	0.00168527	0.00201773
11 OILFIELD SER	0.00002714	0.00008906	0.00005969	0.00010845	0.00012349	0.00011720	0.00009711	0.00011754
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000066	0.00000191	0.00000098	0.00000232	0.00001481	0.00000201	0.00000218	0.00000701
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00000576	0.00002290	0.00000861	0.00002241	0.00012972	0.00001711	0.00001872	0.00006112
16 MAINT&REPAIR	0.00438578	0.01266252	0.00642873	0.01541754	0.010128671	0.01318498	0.01451353	0.04760583
17 MEAT PROD	0.00202223	0.00754373	0.00519352	0.00728584	0.00903122	0.00968084	0.00914421	0.01232075
18 DAIRY PROD	0.00184156	0.00685883	0.00473250	0.00663806	0.00825136	0.00879847	0.00831681	0.01119305
19 GRN MILLPRD	0.00092912	0.00347001	0.00238255	0.00334371	0.00417561	0.00444980	0.00419874	0.00567363
20 BAKERY PROD	0.00143981	0.00536943	0.00369192	0.00518157	0.00640233	0.00687767	0.00648465	0.00877802
21 OTHFOODPROD	0.00352433	0.01314292	0.00902499	0.01275957	0.01735981	0.01682534	0.01591091	0.02144112
22 TEXTILE MILL	0.00006366	0.00140908	0.00016428	0.00023043	0.00030277	0.00030242	0.00028481	0.00048811
23 FAB TEX MILL	0.00099314	0.00384251	0.00259130	0.00355645	0.00436145	0.00473718	0.00445091	0.00766236
24 LUM&WOOD PR	0.00040341	0.00992455	0.00065199	0.00128058	0.00582242	0.00124041	0.00126237	0.00339605
25 FURN & FIX	0.00017662	0.04571044	0.00039274	0.00072674	0.00167263	0.00079355	0.00077102	0.00133153
26 PAPER EX BOX	0.00021183	0.00330718	0.00063399	0.00432355	0.00099000	0.00134014	0.00130152	0.00148238
27 BOXS&CONTAIN	0.00130113	0.00269235	0.00305137	0.00205413	0.00240384	0.00253672	0.00304681	0.00312466
28 NEWSPAPERS	0.00101115	0.00399588	0.00252650	0.00361195	0.00453521	0.00497580	0.00489996	0.00595106
29 PUB&PRINTING	0.00078878	0.00296752	0.00706370	0.00403928	0.00470396	0.01559156	0.00837778	0.00500922
30 DRUGS,SPS&CL	0.00038992	0.00145145	0.00098926	0.00138772	0.00172281	0.00184787	0.00174060	0.00240176
31 OTH CHEMICAL	0.00088607	0.00464741	0.00306211	0.00123255	0.00323645	0.00189099	0.00158923	0.00255250
32 PET REF	0.00019153	0.00054885	0.00036433	0.00056056	0.01036334	0.00064381	0.00062313	0.00105906
33 RUBBER PROD	0.00471718	0.01251191	0.00027763	0.00037305	0.00064131	0.00965545	0.00302954	0.00057408
34 PLASTIC PROD	0.00012971	0.00103336	0.00058924	0.00093791	0.00063173	0.00078363	0.00058350	0.00159072
35 LEATHER PROD	0.00004308	0.00016087	0.00011022	0.00015456	0.00018950	0.00020580	0.00019350	0.00026360
36 GLS,ST,CL&CN	0.00028465	0.00154376	0.00062201	0.00476494	0.00351006	0.00106851	0.00104328	0.00208859
37 PRIMARY MET	0.00175040	0.08737214	0.00124079	0.02080389	0.02557114	0.00140954	0.00109048	0.00439409
38 FAB STEEL	0.00000044	0.00000131	0.00000064	0.00000156	0.00000108	0.00000132	0.00000145	0.00000474
39 PLATE WRK	0.00000885	0.00002496	0.00000715	0.00001630	0.00010438	0.00002253	0.00001781	0.00007490
40 SH METAL&ARC	0.00003088	0.04786961	0.00066395	0.00011155	0.00036604	0.00012329	0.00012085	0.00025319
41 METAL DOORS	0.00002401	0.00007123	0.00003550	0.00008637	0.00055218	0.00007213	0.00007934	0.00048239
42 FAB MET PROD	0.00012616	0.00047082	0.00032318	0.00045667	0.00062148	0.00060216	0.00056944	0.00076782
43 PLU,HEAT&REF	0.00020720	0.00066104	0.00038490	0.00073331	0.00337905	0.00075491	0.00077518	0.00255499
44 ELECTROPLAT	0.00001705	0.00268090	0.00048033	0.00114585	0.00020596	0.00003260	0.00002606	0.00008239
45 OTH FAB MET	0.00006839	0.00493541	0.00073211	0.00509082	0.00036571	0.00024097	0.00020605	0.00056498
46 FM,CN,ID MA	0.00000242	0.00000922	0.00000610	0.00000810	0.00001789	0.00000996	0.00000950	0.00001453
47 MIN MACH	0.00000003	0.00000011	0.00000008	0.00000013	0.00000015	0.00000015	0.00000012	0.00000015
48 MET WK MACH	0.00005300	0.00013726	0.00002992	0.00004759	0.00131187	0.00005182	0.00000509	0.00027028
49 IND PRO MACH	0.00000337	0.00001200	0.00001149	0.00001278	0.00001524	0.00002376	0.00001923	0.00001891
50 ENG&GEN MACH	0.00000302	0.00009840	0.00000511	0.00000829	0.00002110	0.00001036	0.00000851	0.000221078
51 OTH MAC&EQUP	0.00001919	0.00005824	0.00003009	0.00004899	0.00024489	0.00005990	0.00005609	0.00013025
52 ELEC INS	0.00026692	0.00080186	0.00043464	0.00035787	0.00194876	0.00025735	0.00026013	0.00052401
53 ELEC COM	0.00003775	0.00044450	0.00019887	0.00005753	0.00024361	0.00007873	0.00008115	0.00049855
54 OTH ELEC APP	0.00004280	0.00015715	0.00011712	0.00015113	0.00023119	0.000163248	0.00031699	0.00025453
55 AIRCRAFT&ORD	0.00000216	0.00000805	0.00000552	0.00000774	0.00000948	0.00001030	0.00000969	0.00001319
56 AIRCRAFT PAR	0.00000594	0.00001605	0.00001257	0.00001867	0.00002853	0.00001848	0.00001769	0.00950790
57 MOTOR VECH	1.00134243	0.00367039	0.00247588	0.00360745	0.00459855	0.01567595	0.01053855	0.00581519

58	OTH TRAN EQ	0.00032306	1.00182059	0.00082652	0.00115904	0.00142104	0.00154331	0.00145120	0.00197664
59	PROF, SC&CONT	0.00014166	0.00052831	1.01175628	0.00051048	0.00063546	0.00067603	0.00064118	0.00086408
60	OTH MFG	0.00021721	0.00087188	0.00064028	1.00112324	0.00109369	0.00127129	0.00101842	0.00134370
61	RAIL TRANS	0.00555047	0.00537515	0.00434645	0.00603175	1.01731443	0.00300281	0.00295628	0.00311518
62	INTERCITY TR	0.00016705	0.00063089	0.00042117	0.00060136	0.00072663	1.00079046	0.00074240	0.00101115
63	MOTOR TRANS	0.00787954	0.01078910	0.00580603	0.01361167	0.01400791	0.00730704	1.04028712	0.00851293
64	AIR TRANS	0.00044518	0.00100718	0.00085877	0.00131601	0.00221803	0.00106809	0.00103748	1.01852829
65	PIPE TRANS	0.00000325	0.00000932	0.00000619	0.00000952	0.00017604	0.00001094	0.00001058	0.00001799
66	LOCAL TRANS	0.00028907	0.00107946	0.00073960	0.00103712	0.00127159	0.00138095	0.00129844	0.00176880
67	WAREHOUS TR	0.00013970	0.00125507	0.00067478	0.00091690	0.00229404	0.00059795	0.00055341	0.00075700
68	TELEP&TELEG	0.00416292	0.01284794	0.01105477	0.01395165	0.01993291	0.01444809	0.03809484	0.02036690
69	TV, RAD, COMM	0.00025939	0.00098718	0.00060276	0.00089780	0.00111727	0.00144340	0.00130856	0.00141341
70	GAS SERVICE	0.00289633	0.00941777	0.00638120	0.01102276	0.01045958	0.01258179	0.01037665	0.01234492
71	ELEC SERV	0.00520743	0.01683681	0.01074312	0.02587266	0.01911100	0.02308495	0.01865060	0.02358493
72	WT&SAN SER	0.00098602	0.00369294	0.00264182	0.00437444	0.00730338	0.00533872	0.00486456	0.00506899
73	WHL AUTO PTS	0.00050074	0.00170998	0.00112049	0.00218620	0.00234237	0.01709509	0.01801856	0.00244112
74	WHL GRO	0.00121445	0.00452620	0.00311538	0.00436808	0.00539844	0.00580031	0.00547104	0.00739901
75	WHL FM PROD	0.00003869	0.00014482	0.00009917	0.00013911	0.00017187	0.00018495	0.00017433	0.00023616
76	WHL MACH&EQP	0.00341288	0.00499296	0.01096676	0.00399531	0.00194051	0.00166689	0.00166203	0.00171912
77	WHL PETROLEM	0.00199567	0.00250011	0.00125539	0.00241593	0.00266022	0.01679511	0.01896205	0.02214371
78	GEN WHL	0.00681176	0.03841553	0.00470718	0.02493989	0.01191266	0.01219027	0.01139522	0.02089078
79	BLD MAT	0.00074038	0.02025632	0.00168732	0.00226345	0.00419627	0.00290794	0.00275374	0.00422047
80	RTL TRD-GEN	0.00484602	0.01809604	0.01239860	0.01738611	0.02131684	0.02315013	0.02176696	0.02965195
81	FOOD STORES	0.00324723	0.01212573	0.00830814	0.01165011	0.01428411	0.01551266	0.01458625	0.01986935
82	AUTO DL&REP	0.00246979	0.00805327	0.00529405	0.00857940	0.00964782	0.02321121	0.01740623	0.01226337
83	GAS SER STA	0.00090897	0.00387613	0.00241640	0.00370565	0.00409564	0.00442193	0.00421630	0.00553758
84	APP&ACCESS	0.00115773	0.00432315	0.00296206	0.00415357	0.00509292	0.00553066	0.00520016	0.00708389
85	FURNITURE	0.00094853	0.00354190	0.00242693	0.00340351	0.00417233	0.00453119	0.00426049	0.00580370
86	EAT&DRINK	0.00382036	0.01433888	0.00982460	0.01373661	0.01679819	0.01847792	0.01747726	0.02345065
87	OTH RETAIL	0.00344710	0.01095898	0.00739544	0.01031955	0.01271005	0.01378991	0.01298080	0.01768189
88	BK&CREDIT	0.00373917	0.01541503	0.00840692	0.01865968	0.01931072	0.02081945	0.04679114	0.03742762
89	INSURANCE	0.00517177	0.01816980	0.01477737	0.02095383	0.02135158	0.04526015	0.05819519	0.04329578
90	F.I.R.&E	0.00656387	0.02394250	0.02083859	0.03007184	0.03987920	0.02840110	0.06632505	0.03803241
91	LEGAL SER	0.00063834	0.00229320	0.00402410	0.00267020	0.00626124	0.00833331	0.01772327	0.00814752
92	LODGE SER	0.00021170	0.00038785	0.00067681	0.00038313	0.00044279	0.00066000	0.00078909	0.00066832
93	PERSNL SER	0.00336295	0.01206247	0.00854579	0.01152107	0.01865443	0.01531272	0.01438209	0.01953186
94	ADV, DUPE&AD	0.00084395	0.00495722	0.00526650	0.00657983	0.00408496	0.02964268	0.02350134	0.01148007
95	PHOTO&REC	0.00114935	0.00434537	0.00299915	0.00421916	0.00504471	0.00600957	0.00557928	0.00714214
96	OTH BUS SE	0.00207753	0.01585736	0.00447620	0.00801181	0.01308196	0.00899888	0.00965233	0.01083153
97	AUTO RENT, PK	0.00145599	0.00254239	0.00113097	0.00165162	0.00196395	0.00211080	0.00200899	0.00268581
98	REPAIR SER	0.00122176	0.00405137	0.00285614	0.00344873	0.00396536	0.00500731	0.00463172	0.00591575
99	PHYS&DEN	0.00236579	0.00883663	0.00609693	0.00850095	0.01040322	0.01137361	0.01074637	0.01451584
100	HOS&LAB SER	0.00198951	0.00733981	0.00513547	0.00730352	0.00948524	0.00947456	0.00909908	0.01182474
101	OTH MED SER	0.00107123	0.00400014	0.00274312	0.00384508	0.00471432	0.00511928	0.00482346	0.00655562
102	ELE&SECD SCH	0.00461270	0.01646790	0.01258403	0.01812102	0.02714416	0.02183227	0.02224134	0.02498840
103	COLL & UNIV	0.00146113	0.00501450	0.00341852	0.00513288	0.00598612	0.00694084	0.00727725	0.00768316
104	OTH ED SER	0.00070582	0.00262022	0.00181150	0.00253718	0.00316161	0.00337948	0.00318494	0.00428718
105	ENG & ARC	0.00004189	0.00019385	0.00012750	0.00018346	0.00024985	0.00018715	0.00036964	0.00025732
106	ACCT, ACD, &BK	0.00081876	0.00245706	0.00261851	0.00282540	0.00267783	0.00719903	0.01478242	0.00336920
107	OTH PROF SER	0.00012706	0.00048560	0.00039112	0.00600533	0.00054245	0.00133184	0.00137337	0.00102827
108	OTH SER	0.00284837	0.01024260	0.00770444	0.01171212	0.01202997	0.01341943	0.01268330	0.01658505
109	HOUSEHOLDS	0.14629540	0.54629420	0.37429742	0.52486546	0.64352749	0.69887106	0.65711704	0.89515606
TOTAL		1.28529110	2.22652172	1.69047620	2.01678387	2.31268849	2.32992781	2.38991424	2.64151991

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

	65	66	67	68	69	70	71	72
1 COTTON	0.00011839	0.00031243	0.00025004	0.00023599	0.00019889	0.00013520	0.00012690	0.00021769
2 CASH GRAINS	0.00067724	0.00178042	0.00141757	0.00134980	0.00115265	0.00077452	0.00073009	0.00124069
3 OTHER GRAINS	0.00048098	0.00127308	0.00100977	0.00096069	0.00081318	0.00055005	0.00051394	0.00088813
4 RANGE LVSTK.	0.00039441	0.00103494	0.00082337	0.00078577	0.00066827	0.00045116	0.00042595	0.00072150
5 FEED LVSTK.	0.00029337	0.00076851	0.00061194	0.00058417	0.00049671	0.00033564	0.00031743	0.00053574
6 DAIRY	0.00192949	0.00492087	0.00396975	0.00381238	0.00317661	0.00221403	0.00214629	0.00343326
7 POULTRY&EGGS	0.00089781	0.00239966	0.00189190	0.00179883	0.00154074	0.00102487	0.00094995	0.00167300
8 AGSUP EXFAMA	0.00029768	0.00079423	0.00062682	0.00059613	0.00050747	0.00033987	0.00031542	0.00055397
9 AG SERVICES	0.00044542	0.00119830	0.00094160	0.00089433	0.00076178	0.00050803	0.00046740	0.00083601
10 PET&NAT GAS	0.02200404	0.00265279	0.00337766	0.00188498	0.00169921	0.16158730	0.02400269	0.00347365
11 OILFIELD SER	0.00128472	0.00015262	0.00019418	0.00010887	0.00009815	0.00091686	0.00136228	0.00025885
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000676	0.00000247	0.00000582	0.00000213	0.00000337	0.00000837	0.00000234	0.00000963
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00006522	0.00002104	0.00004980	0.00001866	0.00003433	0.00002026	0.00001296	0.00009559
16 MAINT&REPAIR	0.03985054	0.01616465	0.03903721	0.01408499	0.02263565	0.00914394	0.00887378	0.06518211
17 MEAT PROD	0.00554927	0.01438729	0.01151690	0.01101475	0.00935348	0.00635640	0.00607323	0.01002686
18 DAIRY PROD	0.00513003	0.01307635	0.01055166	0.01013463	0.00844023	0.00588689	0.00570947	0.00912352
19 GRN MILLPRD	0.00248591	0.00661798	0.00523728	0.00497314	0.00429034	0.00283882	0.00264427	0.00460930
20 BAKERY PROD	0.00391396	0.01023489	0.00815031	0.00779155	0.00653436	0.00447842	0.00423770	0.00714356
21 OTHFOODPROD	0.00949029	0.02504420	0.02004339	0.01891697	0.01594240	0.01083769	0.01017220	0.01745013
22 TEXTILE MILL	0.00017586	0.0004813	0.00035876	0.00033425	0.00029545	0.00020183	0.00018835	0.00033466
23 FAB TEX MILL	0.00261169	0.00704593	0.00553142	0.00523199	0.00447326	0.00317751	0.00295752	0.00504198
24 LUM&WOOD PR	0.00241246	0.00165675	0.00265180	0.00130959	0.00220992	0.00080227	0.00077191	0.00411528
25 FURN & FIX	0.00079167	0.00111432	0.00114537	0.00088575	0.00113196	0.00050476	0.00049255	0.00134589
26 PAPER EX BOX	0.00753690	0.00167448	0.00140443	0.00128041	0.00260944	0.00097947	0.00088633	0.00189240
27 BOXES&CONTAIN	0.00234211	0.00353368	0.00287115	0.00269933	0.00245652	0.00153347	0.00152244	0.00284682
28 NEWSPAPERS	0.00265858	0.00730984	0.00693974	0.00514479	0.00786532	0.00391071	0.00409472	0.00492147
29 PUB&PRINTING	0.00493602	0.00736401	0.00942974	0.00531667	0.00920775	0.00227451	0.00222403	0.00390770
30 DRUGS,SPS&CL	0.00104368	0.00273761	0.00221742	0.00206559	0.00203444	0.00120360	0.00118247	0.00229012
31 OTH CHEMICAL	0.00196578	0.00220460	0.00214653	0.00147119	0.00191789	0.00099013	0.00089559	0.01913238
32 PET REF	0.00061862	0.00092124	0.00096891	0.00069781	0.00068111	0.00040410	0.00039408	0.00107588
33 RUBBER PROD	0.00053976	0.00064221	0.00135184	0.00062681	0.00043318	0.00027903	0.00029532	0.00126261
34 PLASTIC PROD	0.00043620	0.00096170	0.00077940	0.00067605	0.00059713	0.00037868	0.00034920	0.00108958
35 LEATHER PROD	0.00011281	0.00030670	0.00023966	0.00022725	0.00019414	0.00012851	0.00011691	0.00021401
36 GLS,ST,CL&CN	0.02470329	0.00147734	0.00178529	0.00133279	0.00120282	0.00092131	0.00102791	0.04101412
37 PRIMARY MET	0.00305987	0.00143312	0.00246636	0.00117925	0.00151735	0.00066526	0.00095155	0.00416325
38 FAB STEEL	0.00000409	0.00000161	0.00000389	0.00000141	0.00000229	0.00000108	0.00000091	0.00000658
39 PLATE WORK	0.00015401	0.00001742	0.00004142	0.00001522	0.00002414	0.00001270	0.00000693	0.00006966
40 SH METALEARC	0.00035344	0.00017151	0.00020856	0.00013495	0.00014693	0.00007912	0.00007389	0.00028184
41 METAL DOORS	0.00021736	0.00008848	0.00021298	0.00007718	0.00012493	0.00005003	0.00004853	0.00035541
42 FAB MET PROD	0.00034545	0.00089629	0.00071735	0.00067734	0.00057580	0.00038787	0.00036421	0.00062474
43 PLU,HEAT&REF	0.00140055	0.00101713	0.00159464	0.00082241	0.00102538	0.00050264	0.00048600	0.00233487
44 ELECTROPLAT	0.00039309	0.00003771	0.00004250	0.00002891	0.00003477	0.00001621	0.00001907	0.00006469
45 OTH FAB MET	0.00056432	0.00032814	0.00026975	0.00021629	0.00024116	0.00012983	0.00012721	0.00057658
46 FM,CN, ID MA	0.00000898	0.00001385	0.00001421	0.00001071	0.00000995	0.00000629	0.00002156	0.00034851
47 MIN MACH	0.00000162	0.00000019	0.00000025	0.00000014	0.00000012	0.00000182	0.00000176	0.00000027
48 MET WK MACH	0.00006597	0.00006791	0.00008975	0.00005173	0.00007399	0.00003589	0.00004009	0.00044452
49 IND PRO MACH	0.00001468	0.00002322	0.00002222	0.00001973	0.00001819	0.00003105	0.00001471	0.00001587
50 ENG&GEN MACH	0.04699708	0.00001058	0.00001134	0.00001026	0.00002152	0.00000544	0.00001678	0.00007021
51 OTH MAC&EQUP	0.00012875	0.00006040	0.00011130	0.00012432	0.00009214	0.00004602	0.00004216	0.00026172
52 ELEC INS	0.01224955	0.00034519	0.00049232	0.00074031	0.00030994	0.00014180	0.00112496	0.00212835
53 ELEC COM	0.00490134	0.00011325	0.00011575	0.00036332	0.00445922	0.00005377	0.00018789	0.00026839
54 OTH ELEC APP	0.00024119	0.00085648	0.00072039	0.00030863	0.00027783	0.00014283	0.00012490	0.00027634
55 AIRCRAFT&ORD	0.00000565	0.00001535	0.00001200	0.00001137	0.00000972	0.00000643	0.00000585	0.00001071
56 AIRCRAFT PAR	0.00001001	0.00002631	0.00002267	0.00002613	0.00007498	0.00001211	0.00001143	0.00001888
57 MOTOR VECH	0.00268027	0.00745094	0.00913244	0.00496357	0.00868410	0.00292643	0.00270373	0.00482844

58 OTH TRAN EQ	0.00084703	0.00229979	0.00179725	0.00170429	0.00145589	0.00096380	0.00087694	0.00160476
59 PROF, SC&CONT	0.01142136	0.00100006	0.00081126	0.00078740	0.00065510	0.00046027	0.00044655	0.00075211
60 OTH MFG	0.00058422	0.00172194	0.00157097	0.00113266	0.00314532	0.00070479	0.00059868	0.00132620
61 RAIL TRANS	0.00273302	0.00325826	0.00723125	0.00226584	0.00213236	0.00130097	0.00366135	0.00340755
62 INTERCITY TR	0.00044100	0.00117400	0.00091852	0.00087071	0.00075476	0.00049457	0.00045547	0.00083160
63 MOTOR TRANS	0.00444421	0.000881130	0.00707194	0.00627560	0.00510968	0.00462679	0.00543583	0.00687909
64 AIR TRANS	0.00057294	0.00145933	0.00136673	0.00179252	0.00717890	0.00072801	0.00070643	0.00107447
65 PIPE TRANS	1.00001051	0.00001565	0.00001646	0.00001185	0.00001157	0.00000686	0.00000669	0.00001828
66 LOCAL TRANS	0.00075694	1.00205800	0.00160817	0.00152489	0.00130274	0.00086229	0.00078446	0.00143605
67 WARE&OTH TR	0.00033852	0.00083795	1.00067291	0.00060242	0.00129816	0.00084346	0.00071510	0.00060758
68 TELEP&TELEG	0.00773765	0.02485809	0.02997239	1.01422949	0.02318613	0.01198345	0.01025527	0.01462585
69 TV, RAD, COMM	0.00068522	0.00201056	0.00178319	0.00123005	1.00116263	0.00181813	0.00303056	0.00133767
70 GAS SERVICE	0.02067454	0.01634932	0.02086852	0.01160674	0.01044880	1.00992678	0.14993357	0.02140880
71 ELEC SERV	0.03100870	0.03174853	0.06721613	0.02284241	0.02214522	0.01140023	1.00972038	0.08491138
72 WT&SAN SER	0.00237341	0.00743522	0.00631803	0.00549006	0.00408010	0.00304959	0.00504876	1.09472149
73 WHL AUTO PTS	0.00106208	0.04074119	0.01203847	0.00226569	0.00202234	0.00176224	0.00160658	0.00216599
74 WHL GRO	0.00330177	0.00862999	0.00687565	0.00657146	0.00552239	0.00377728	0.00357655	0.00602179
75 WHL FM PROD	0.00010393	0.00027524	0.00021797	0.00020766	0.00017642	0.00011876	0.00011106	0.00019197
76 WHL MACH&EQP	0.00265813	0.00258808	0.00211693	0.00588129	0.00251536	0.00252230	0.00210631	0.01495056
77 WHL PETROLEM	0.00158433	0.005610915	0.00691109	0.00252817	0.00251647	0.00173694	0.00181846	0.00411718
78 GEN WHL	0.00704347	0.01783638	0.01270689	0.01265189	0.01315892	0.00949917	0.01529413	0.01311964
79 BLD MAT	0.00215294	0.00423405	0.00377909	0.00317663	0.00289775	0.00183501	0.00189139	0.00390201
80 RTL TRD-GEN	0.01268936	0.03450006	0.02695927	0.02556315	0.02183905	0.01445536	0.01315064	0.02407372
81 FOOD STORES	0.00850314	0.02311836	0.01806518	0.01712932	0.01463426	0.00968838	0.00881239	0.01613135
82 AUTO DL&REP	0.00607120	0.01964002	0.02142228	0.01097707	0.00933774	0.01038179	0.01648181	0.01280502
83 GAS SER STA	0.00242314	0.00647532	0.00522709	0.00483111	0.00456498	0.00404712	0.00323969	0.00453958
84 APP&ACCESS	0.00303150	0.00824215	0.00644063	0.00610709	0.00521737	0.00345341	0.00314172	0.00575125
85 FURNITURE	0.00248423	0.00675256	0.00527743	0.00500333	0.00427518	0.00282942	0.00257401	0.00471254
86 EAT&DRINK	0.00999784	0.02740202	0.02144319	0.02016227	0.01886042	0.01138827	0.01036437	0.01896717
87 OTH RETAIL	0.00756311	0.02046766	0.01601991	0.01520290	0.01307868	0.00863306	0.00785603	0.01434758
88 BK&CREDIT	0.00985959	0.03613293	0.08612526	0.01887465	0.02022679	0.01381910	0.01332449	0.01586721
89 INSURANCE	0.01233552	0.06098732	0.04420555	0.02297023	0.02142398	0.01408873	0.01350772	0.02657286
90 F.I.R.E	0.02458470	0.04420558	0.15552887	0.03888127	0.03553628	0.02411150	0.02068514	0.02781159
91 LEGAL SER	0.00218656	0.01641438	0.01021628	0.00269580	0.00698523	0.00327227	0.00358770	0.00268727
92 LODGE SER	0.00026467	0.00100573	0.00089492	0.00069823	0.00047094	0.00029387	0.00026641	0.00049446
93 PERSNL SER	0.00842708	0.02273279	0.01781928	0.01705032	0.01441600	0.00954736	0.00872189	0.01590174
94 ADV, DUP&AD	0.00172313	0.02306116	0.00615318	0.00838878	0.04432214	0.00373785	0.00275505	0.00284464
95 PHOTO&REC	0.00299874	0.00849163	0.00649081	0.00611048	0.00836041	0.00344843	0.00313292	0.00564975
96 OTH BUS SE	0.00585348	0.01194276	0.04000842	0.00867802	0.02285432	0.00854717	0.00554904	0.00849777
97 AUTO RENT, PK	0.00123989	0.01337111	0.00248609	0.00229834	0.00198793	0.00138223	0.00127257	0.00228880
98 REPAIR SER	0.00249052	0.00782134	0.00561100	0.00468779	0.00541704	0.00615099	0.00403443	0.00620637
99 PHYS&DEN	0.00622058	0.01692463	0.01321414	0.01249528	0.01066033	0.00707379	0.00642098	0.01175735
100 HOS&LAB SER	0.00680790	0.01397096	0.01253908	0.01260618	0.00932719	0.00790745	0.00895288	0.00978541
101 OTH MED SER	0.00280745	0.00762869	0.00598596	0.00565226	0.00482878	0.00319694	0.00290763	0.00532076
102 ELE&SECD SCH	0.02644508	0.03115415	0.03955140	0.04394660	0.02422004	0.03209825	0.04552635	0.02202394
103 COLL & UNIV	0.00461530	0.00907048	0.00812648	0.00856586	0.00598306	0.00529931	0.00583426	0.00632297
104 OTH ED SER	0.00196980	0.00498637	0.00405086	0.00414593	0.00320397	0.00237374	0.00221291	0.00349437
105 ENG & ARC	0.00035021	0.00082379	0.00082154	0.00024098	0.00100158	0.00014764	0.00012938	0.00020111
106 ACCT, ACD, &BK	0.00163068	0.00799750	0.02354412	0.00273707	0.00557928	0.00480057	0.00301007	0.00409496
107 OTH PROF SER	0.00086790	0.00147842	0.00093337	0.00064485	0.00123991	0.00164350	0.00052279	0.00064927
108 DTH SER	0.00711257	0.01928697	0.01812319	0.01406480	0.01444968	0.00855508	0.00761672	0.01331449
109 HOUSEHOLDS	0.38307441	1.04151498	0.81386614	0.77172054	0.65929192	0.43639006	0.39700201	0.72675572
TOTAL	1.89116341	2.93772421	2.79685125	2.33781244	2.25985410	1.97279214	1.93353504	2.53439095

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

	73	74	75	76	77	78	79	80
1 COTTON	0.00020046	0.00023533	0.00017828	0.00019665	0.00009043	0.00020852	0.00027371	0.00024909
2 CASH GRAINS	0.00114376	0.00134557	0.00111289	0.00112746	0.00051971	0.00119380	0.00156410	0.00142190
3 OTHER GRAINS	0.00081637	0.00096096	0.00072540	0.00080191	0.00036656	0.00085085	0.00111553	0.00101342
4 RANGE LVSTK.	0.00066438	0.00078179	0.00059445	0.00065425	0.00030314	0.00069400	0.00091035	0.00082713
5 FEED LVSTK.	0.00049347	0.00058056	0.00044204	0.00048600	0.00022560	0.00051552	0.00067653	0.00061468
6 DAIRY	0.00317462	0.00371738	0.00288159	0.00311524	0.00147190	0.00330563	0.00439092	0.00398497
7 POULTRY&EGGS	0.00153686	0.00181259	0.00136701	0.00151397	0.00068794	0.00160466	0.00209232	0.00190171
8 AGSUP EXFAMA	0.00050872	0.00059965	0.00045509	0.00050030	0.00022718	0.00053057	0.00069326	0.00062991
9 AG SERVICES	0.00076648	0.00090444	0.00076374	0.00075335	0.00033913	0.00079914	0.00104203	0.00094675
10 PET&NAT GAS	0.00165695	0.00196319	0.00236869	0.00157666	0.00099899	0.00188120	0.00237600	0.00265603
11 OILFIELD SER	0.00009550	0.00011299	0.00013609	0.00009084	0.00005737	0.00010814	0.00013672	0.00015238
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000206	0.00000193	0.00000203	0.00000168	0.00000097	0.00000173	0.00000231	0.00000220
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001768	0.00001644	0.00001718	0.00001443	0.00000828	0.00001476	0.00001972	0.00001866
16 MAINT&REPAIR	0.01365299	0.01265373	0.01322281	0.01111738	0.00639567	0.01136283	0.01517335	0.01430706
17 MEAT PROD	0.00925293	0.01087201	0.00834663	0.00911809	0.00428055	0.00967153	0.01272657	0.01156302
18 DAIRY PROD	0.00843683	0.00987824	0.00765989	0.00827817	0.00391242	0.00878416	0.01167137	0.01059201
19 GRN MILLPRD	0.00424451	0.00500309	0.00377697	0.00419273	0.00191183	0.00443408	0.00577658	0.00525490
20 BAKERY PROD	0.00655307	0.00772345	0.00587091	0.00644375	0.00297354	0.00684566	0.00902580	0.00819272
21 OTHFOODPROD	0.01606880	0.01886368	0.01429025	0.01576296	0.00724893	0.01671474	0.02194042	0.01996679
22 TEXTILE MILL	0.00028739	0.00033776	0.00025421	0.00028114	0.00012648	0.00029877	0.00038912	0.00035288
23 FAB TEX MILL	0.00450620	0.00532036	0.00395138	0.00442333	0.00197912	0.00470464	0.00612645	0.00554947
24 LUM&WOOD PR	0.00122175	0.00127319	0.00280671	0.00106624	0.00055671	0.00111855	0.00145448	0.00143849
25 FURN & FIX	0.00074353	0.00081754	0.00073831	0.00069242	0.00033707	0.00072719	0.00095421	0.00087533
26 PAPER EX BOX	0.00099988	0.00766027	0.01361418	0.00095742	0.00088971	0.00104456	0.00124370	0.00157278
27 BOXS&CONTAIN	0.00241992	0.00785428	0.02047893	0.00221146	0.00120249	0.00464465	0.00309422	0.01730450
28 NEWSPAPERS	0.01280061	0.00545254	0.00447861	0.00446678	0.00219016	0.00563404	0.01336225	0.04777450
29 PUB&PRINTING	0.01923978	0.00457291	0.00534889	0.00379421	0.01710515	0.00817204	0.00742717	0.01643574
30 DRUGS,SPS&CL	0.00177481	0.00215203	0.00168324	0.00172547	0.00079756	0.00183305	0.00240336	0.00218783
31 OTH CHEMICAL	0.00147910	0.00153138	0.00212661	0.00122003	0.00522072	0.00129806	0.00173102	0.00280866
32 PET REF	0.00062275	0.00070536	0.00055165	0.00058515	0.00028141	0.00062184	0.00080762	0.00074016
33 RUBBER PROD	0.00043771	0.00053417	0.00041674	0.00041234	0.00020266	0.00044892	0.00056050	0.00050356
34 PLASTIC PROD	0.00057323	0.00067988	0.00056811	0.00056000	0.00025988	0.00059412	0.00077250	0.00070429
35 LEATHER PROD	0.00019584	0.00023144	0.00017108	0.00019247	0.00008576	0.00020420	0.00026541	0.00024115
36 GLS,ST,CL&CN	0.00103829	0.00112431	0.00119926	0.00096509	0.00048519	0.00099156	0.00133768	0.00119968
37 PRIMARY MET	0.00111945	0.00103801	0.00096144	0.00085121	0.00049221	0.00090807	0.00127451	0.00166255
38 FAB STEEL	0.00000136	0.00000126	0.00000132	0.00000111	0.00000064	0.00000113	0.00000151	0.00000143
39 PLATE WORK	0.00001465	0.00001364	0.00001419	0.00001192	0.00000725	0.00001224	0.00001629	0.00001543
40 SH METAL&ARC	0.00011900	0.00013089	0.00010929	0.00011028	0.00005357	0.00015196	0.00015177	0.00014053
41 METAL DOORS	0.00007474	0.00006929	0.00007253	0.00006084	0.00003499	0.00006219	0.00008303	0.00007828
42 FAB MET PROD	0.00057512	0.00067510	0.00055144	0.00056414	0.00025943	0.00059819	0.00078522	0.00071462
43 PLU,HEAT&REF	0.00075124	0.00078187	0.00070270	0.00066821	0.00034279	0.00069643	0.00091814	0.00085041
44 ELECTROPLAT	0.00002797	0.00002848	0.00002395	0.00002238	0.00001452	0.00003560	0.00003250	0.00003499
45 OTH FAB MET	0.00019899	0.00027858	0.00020227	0.00018429	0.00010943	0.00019017	0.00026013	0.00022280
46 FM,CN,ID MA	0.00000936	0.00001048	0.00001204	0.00000885	0.00000641	0.00000924	0.00001247	0.00001136
47 MIN MACH	0.00000012	0.00000014	0.00000017	0.00000012	0.00000007	0.00000014	0.00000017	0.00000019
48 MET WK MACH	0.00009267	0.00005248	0.00004902	0.00004280	0.00002614	0.00005070	0.00009816	0.00028055
49 IND PRO MACH	0.00002496	0.00001712	0.00001806	0.00001430	0.00001738	0.00001814	0.00002219	0.00002649
50 ENG&GEN MACH	0.00000936	0.00000832	0.00001064	0.00000694	0.00000496	0.00000769	0.00000994	0.00000991
51 OTH MAC&EQUP	0.00005300	0.00005339	0.00007396	0.00004084	0.00003112	0.00004656	0.00005634	0.00007623
52 ELEC INS	0.00024319	0.00023610	0.00026220	0.00021303	0.00012354	0.00021452	0.00028573	0.00025319
53 ELEC COM	0.00010576	0.00008311	0.00007317	0.00007475	0.00003678	0.00007494	0.00010440	0.00012169
54 OTH ELEC APP	0.00019131	0.00027850	0.00017213	0.00018717	0.00008502	0.00020026	0.00025729	0.00023373
55 AIRCRAFT&ORD	0.00000980	0.00001158	0.00000856	0.00000963	0.00000429	0.00001022	0.00001328	0.00001207
56 AIRCRAFT PAR	0.00002122	0.00002120	0.00002597	0.00001754	0.00000870	0.00001831	0.00002359	0.00002176
57 MOTOR VECH	0.00435341	0.01627552	0.00452799	0.00462954	0.00252093	0.00491020	0.00694052	0.00536969

58	OTH TRAN EQ	0.00146859	0.00173549	0.00128325	0.00144330	0.00064314	0.00153128	0.00199031	0.00180840
59	PROF, SC&CONT	0.00064371	0.00075510	0.00059566	0.00063140	0.00030124	0.00067234	0.00089722	0.00081395
60	OTH MFG	0.00125210	0.00124631	0.00101031	0.00096035	0.00063319	0.00102407	0.00160814	0.00137465
61	RAIL TRANS	0.000301551	0.000319774	0.00235215	0.00197550	0.00192948	0.00259050	0.00294307	0.00292866
62	INTERCITY TR	0.00074970	0.00088406	0.00065652	0.00073508	0.00033297	0.00131322	0.00101418	0.00092241
63	MOTOR TRANS	0.01254202	0.00689344	0.02057545	0.00720890	0.00928826	0.00914620	0.00753199	0.00665765
64	AIR TRANS	0.00140609	0.00124552	0.00202555	0.00102633	0.00055233	0.00105648	0.00135127	0.00126218
65	PIPE TRANS	0.00001058	0.00001198	0.00000937	0.00000994	0.00000478	0.00001056	0.00001372	0.00001257
66	LOCAL TRANS	0.00131414	0.00155300	0.00114797	0.00129153	0.00057543	0.00137022	0.00178094	0.00161817
67	WARE&OTH TR	0.00053381	0.00060415	0.00760793	0.00050801	0.00029468	0.00373841	0.00206573	0.00067755
68	TELEP&TELEG	0.02415675	0.01844701	0.01889807	0.02963853	0.01561236	0.02196288	0.02214014	0.01938709
69	TV,RAD,COMM	0.00788251	0.00152165	0.00127000	0.00143129	0.00055788	0.00123054	0.00336487	0.00935631
70	GAS SERVICE	0.01019995	0.01209362	0.01466514	0.00970790	0.00616445	0.01160226	0.01464824	0.01641464
71	ELEC SERV	0.02036321	0.02534207	0.03501146	0.01928655	0.01285414	0.02357207	0.03121429	0.03145639
72	WT&SAN SER	0.00515058	0.00560906	0.01150997	0.001367149	0.00220631	0.00471915	0.00713610	0.0053980
73	WHL AUTO PTS	1.00404914	0.00478205	0.00215034	0.00185229	0.00108133	0.00190608	0.00245258	0.00214226
74	WHL GRO	0.00555661	1.00651663	0.00495822	0.00544363	0.00251460	0.00577653	0.00760889	0.00690824
75	WHL FM PROD	0.00017648	0.00020784	1.00015711	0.00017358	0.00007945	0.00018411	0.00024110	0.00021903
76	WHL MACH&EQP	0.00134722	0.00147682	0.00182633	1.00130385	0.00125782	0.00126081	0.00192324	0.00177847
77	WHL PETROLEM	0.00254288	0.00331812	0.00349892	0.00227001	1.00136753	0.00254431	0.00320233	0.00261699
78	GEN WHL	0.01039308	0.01053113	0.00925525	0.00886126	0.00637454	1.00868008	0.01089291	0.00960987
79	BLD MAT	0.00276179	0.00320534	0.00244775	0.00267444	0.00121923	0.00283061	1.00368752	0.00336029
80	RTL TRD-GEN	0.02203022	0.02603435	0.01924455	0.02165113	0.00964666	0.02297031	0.02985552	1.02712696
81	FOOD STORES	0.01476264	0.01744518	0.01289589	0.01450823	0.00646476	0.01539200	0.02000561	0.01817717
82	AUTO DL&REP	0.00925350	0.02346982	0.01049728	0.00940786	0.00744538	0.01012421	0.01554763	0.01265027
83	GAS SER STA	0.00514530	0.00949216	0.00454805	0.00502148	0.00500510	0.00671254	0.00715609	0.00558064
84	APP&ACCESS	0.00526302	0.00621965	0.00459757	0.00517249	0.00230457	0.00548763	0.00713253	0.00648064
85	FURNITURE	0.00431188	0.00509553	0.00376693	0.00423818	0.00188858	0.00449595	0.00584359	0.00530953
86	EAT&DRINK	0.01762019	0.02086568	0.01565450	0.01777618	0.00797512	0.01854957	0.02349658	0.02149047
87	OTH RETAIL	0.01311808	0.01554420	0.01163345	0.01288542	0.00575462	0.01365625	0.01791037	0.01613854
88	BK&CREDIT	0.03857586	0.01787148	0.11378917	0.02436368	0.01497581	0.02789660	0.03888450	0.02565653
89	INSURANCE	0.02911188	0.02776607	0.03387136	0.02511075	0.01608012	0.03349727	0.02810020	0.02752708
90	F.I.R.E	0.03649857	0.03368258	0.03676846	0.04402279	0.03346040	0.03842044	0.03873572	0.06128078
91	LEGAL SER	0.01917897	0.00261108	0.00320046	0.00396552	0.00189580	0.00334418	0.00480132	0.00360624
92	LODGE SER	0.00440115	0.00120214	0.00092303	0.00149047	0.00062170	0.00078196	0.00056525	0.00056451
93	PERSNL SER	0.01451547	0.01718535	0.01270834	0.01425959	0.00639938	0.01512894	0.01966902	0.01787999
94	ADV, DUPE&AD	0.00516426	0.00571745	0.01228928	0.00892916	0.03074342	0.00635387	0.00553730	0.01244087
95	PHOTO&REC	0.00531056	0.00615981	0.00484928	0.00522248	0.00290856	0.00639044	0.00707696	0.00661277
96	OTH BUS SE	0.00976558	0.00999089	0.02967186	0.00838540	0.00619776	0.01193451	0.01343602	0.01482744
97	AUTO RENT,PK	0.00199884	0.01242105	0.00473117	0.00258783	0.00089022	0.00570187	0.00277791	0.00246313
98	REPAIR SER	0.00519572	0.00790164	0.01936629	0.00823623	0.03078485	0.00500921	0.00594375	0.00502362
99	PHYS&DEN	0.01077419	0.01270900	0.00944179	0.01057643	0.00473094	0.01124544	0.01456133	0.01324045
100	HOS&LAB SER	0.00910965	0.01053506	0.00951148	0.00895297	0.00509466	0.00962298	0.01392829	0.01255671
101	OTH MED SER	0.00487189	0.00575465	0.00425792	0.00478935	0.00213738	0.00508028	0.00659885	0.00600150
102	ELE&SECD SCH	0.02156201	0.02338198	0.03327823	0.02121284	0.01965633	0.02365061	0.04396611	0.03903483
103	COLL & UNIV	0.00624023	0.00702854	0.00806787	0.00589114	0.00321063	0.00641340	0.00881761	0.00795124
104	OTH ED SER	0.00321025	0.00377384	0.00294255	0.00315846	0.00149579	0.00335851	0.00448467	0.00406025
105	ENG & ARC	0.00023087	0.00021562	0.00021915	0.00025827	0.00018700	0.00023393	0.00024967	0.00036248
106	ACCT, ACD, &BK	0.00845255	0.00323166	0.00705686	0.00788237	0.00327143	0.00612951	0.00717456	0.00768538
107	OTH PROF SER	0.00067202	0.00065746	0.00084299	0.00064739	0.00085267	0.00073551	0.00069981	0.00263232
108	OTH SER	0.01239415	0.01429456	0.01178316	0.01396162	0.00735300	0.01310058	0.01701626	0.01553315
109	HOUSEHOLDS	0.66506118	0.78594596	0.58096849	0.65362166	0.29121623	0.69344479	0.90130174	0.81892670
TOTAL		2.24694099	2.38372210	2.29572308	2.16871181	1.66241434	2.24362480	2.58586552	2.53908204

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

	81	82	83	84	85	86	87	88
1 COTTON	0.00020161	0.00027491	0.00026661	0.00030554	0.00022834	0.00035314	0.00024022	0.00016447
2 CASH GRAINS	0.00114847	0.00156335	0.00151780	0.00173982	0.00129771	0.01304224	0.00136616	0.00093038
3 OTHER GRAINS	0.00082126	0.00111803	0.00108372	0.00124495	0.00092556	0.00274197	0.00097559	0.00066425
4 RANGE LVSTK.	0.00066734	0.00090867	0.00088217	0.00101155	0.00075385	0.00597037	0.00079414	0.00054033
5 FEED LVSTK.	0.00049561	0.00067478	0.00065533	0.00075114	0.00056001	0.00454852	0.00058992	0.00040142
6 DAIRY	0.00318144	0.00432645	0.00422428	0.00481439	0.00360460	0.01979514	0.00380016	0.00258449
7 POULTRY&EGGS	0.00154517	0.00210550	0.00203659	0.00234486	0.00174114	0.01189429	0.00183410	0.00124665
8 AGSUP EXFAMA	0.00051165	0.00069710	0.00067448	0.00077640	0.00057636	0.00236155	0.00060740	0.00041285
9 AG SERVICES	0.00077157	0.00105152	0.00101560	0.00117146	0.00086782	0.00186927	0.00091480	0.00062139
10 PET&NAT GAS	0.00303178	0.00221374	0.00384714	0.00378775	0.00271239	0.00367662	0.00355939	0.00157169
11 OILFIELD SER	0.00017348	0.00012764	0.00022109	0.00021706	0.00015568	0.00021071	0.00020383	0.00009047
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000231	0.00000273	0.00000456	0.00000299	0.00000242	0.00000178	0.00000256	0.00000212
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001940	0.00002349	0.00003887	0.00002527	0.00002069	0.00001474	0.00002152	0.00001817
16 MAINT&REPAIR	0.01495327	0.01810766	0.03020459	0.01940579	0.01584429	0.01111671	0.01654638	0.01413711
17 MEAT PROD	0.00928483	0.01263609	0.01229857	0.01406143	0.01050981	0.10705523	0.01106827	0.00753686
18 DAIRY PROD	0.00845459	0.01149714	0.01122683	0.01279376	0.00957954	0.05162723	0.01009950	0.00686850
19 GRN MILLPRO	0.00426200	0.00580752	0.00562388	0.00646333	0.00481361	0.05945748	0.00506418	0.00344626
20 BAKERY PROD	0.00660528	0.00899227	0.00873300	0.01001418	0.00745352	0.01287753	0.00786155	0.00534111
21 OTHFOODPROD	0.01616079	0.02203614	0.02137115	0.02449207	0.01830349	0.02830291	0.01925588	0.01318354
22 TEXTILE MILL	0.00029370	0.00040896	0.00038585	0.00043941	0.00032722	0.00026615	0.00034404	0.00023535
23 FAB TEX MILL	0.00460100	0.00644702	0.00599876	0.00690712	0.00513142	0.00417931	0.00539638	0.00367315
24 LUM&WOOD PR	0.00135696	0.00162685	0.00225166	0.00178041	0.00140939	0.00111028	0.00146416	0.00114204
25 FURN & FIX	0.00077313	0.00099290	0.00111845	0.00109784	0.00084715	0.00067961	0.00088721	0.00064990
26 PAPER EX BOX	0.00120405	0.00137308	0.00128739	0.00255426	0.00139701	0.00236430	0.00187212	0.00238166
27 BOXS&CONTAIN	0.01174046	0.00311373	0.00301787	0.00345219	0.00266805	0.00723570	0.00275686	0.00200880
28 NEWSPAPERS	0.02379833	0.02111288	0.00892269	0.03511819	0.07747552	0.00581242	0.03531557	0.00530640
29 PUB&PRINTING	0.00835846	0.00690028	0.00640351	0.00607596	0.01346287	0.00371594	0.00866116	0.01463896
30 DRUGS,SP&ECL	0.00184165	0.00291758	0.00235823	0.00268843	0.00200629	0.00175908	0.00210671	0.00147352
31 OTH CHEMICAL	0.00153708	0.00191689	0.00211227	0.00220364	0.00232993	0.00367426	0.00193195	0.00133838
32 PET REF	0.00064180	0.00083797	0.00090742	0.00092994	0.00070998	0.00058131	0.00073991	0.00052126
33 RUBBER PROD	0.00042531	0.00056530	0.00055742	0.00062666	0.00047562	0.00042290	0.00051084	0.00033751
34 PLASTIC PROD	0.00057930	0.00079024	0.00077092	0.00087462	0.00065101	0.00061557	0.00068527	0.00046745
35 LEATHER PROD	0.00019729	0.00026902	0.00025927	0.00029981	0.00022156	0.00017755	0.00023360	0.00015857
36 GLS,ST,CL&CN	0.00106101	0.00142029	0.00197987	0.00154122	0.00127041	0.00150726	0.00135385	0.00091015
37 PRIMARY MET	0.00134574	0.00151710	0.00192838	0.00182666	0.00214944	0.00097069	0.00163103	0.00097082
38 FAB STEEL	0.00000149	0.00000181	0.00000301	0.00000194	0.00000158	0.00000111	0.00000165	0.00000141
39 PLATE WORK	0.00001593	0.00001930	0.00003168	0.00002073	0.00001698	0.00001215	0.00001768	0.00001500
40 SH METAL&ARC	0.00012381	0.00016142	0.00019152	0.00017767	0.00013592	0.00011213	0.00014265	0.00010506
41 METAL DOORS	0.00008182	0.00009902	0.00016488	0.00010613	0.00008669	0.00006087	0.00009046	0.00007724
42 FAB MET PROD	0.00057841	0.00078872	0.00076490	0.00087662	0.00065516	0.00101287	0.00068916	0.00047183
43 PLU,HEAT&REF	0.00080256	0.00101121	0.00136124	0.00110352	0.00086213	0.00066168	0.00091341	0.00070251
44 ELECTROPLAT	0.00003319	0.00003469	0.00004002	0.00004044	0.00003888	0.00003236	0.00003511	0.00002410
45 OTH FAB MET	0.00043168	0.00025936	0.00029029	0.00029572	0.00023442	0.00034465	0.00024823	0.00016016
46 FM,CN,ID MA	0.00000982	0.00001275	0.00001668	0.00001423	0.00001175	0.00001870	0.00001238	0.00000785
47 MIN MACH	0.00000022	0.00000016	0.00000028	0.00000028	0.00000020	0.00000027	0.00000026	0.00000012
48 MET WK MACH	0.00015167	0.00014160	0.00009004	0.00021851	0.00044079	0.00005604	0.00021612	0.00004971
49 IND PRO MACH	0.00001784	0.00002095	0.00002138	0.00002221	0.00002280	0.00001721	0.00002054	0.00001958
50 ENG&GEN MACH	0.00000788	0.00000986	0.00001103	0.00001093	0.00000987	0.00000706	0.00000921	0.00000706
51 OTH MAC&EQUP	0.00006405	0.00006278	0.00009042	0.00006716	0.00005835	0.00004808	0.00005846	0.00004922
52 ELEC INS	0.00029039	0.00029625	0.00042602	0.00034881	0.00029233	0.00025591	0.00031533	0.00021402
53 ELEC COM	0.00010707	0.00016590	0.00015085	0.00018100	0.00017192	0.00008758	0.00010440	0.00006578
54 OTH ELEC APP	0.00019315	0.00029369	0.00025179	0.00029089	0.00021713	0.00018250	0.00022907	0.00015371
55 AIRCRAFT&ORD	0.00000987	0.00001347	0.00001298	0.00001501	0.00001109	0.00000889	0.00001169	0.00000794
56 AIRCRAFT PAR	0.00001740	0.00002434	0.00002275	0.00002684	0.00002278	0.00001550	0.00002050	0.00001492
57 MOTOR VECH	0.00458379	0.00660213	0.00572030	0.00660565	0.00558208	0.00416503	0.00665224	0.00347683

58	OTH TRAN EQ	0.00147945	0.00201732	0.00194431	0.00224816	0.00166141	0.00133141	0.00175170	0.00118908
59	PROF, SC&CONT	0.00064862	0.00088118	0.00086363	0.00098051	0.00073485	0.00058438	0.00077503	0.00052790
60	OTH MFG	0.00133799	0.00174820	0.00343233	0.00287478	0.00266629	0.00173813	0.00306282	0.00149442
61	RAIL TRANS	0.00360067	0.00275515	0.00263012	0.00330952	0.00367279	0.00571009	0.00304394	0.00164359
62	INTERCITY TR	0.00075573	0.00109576	0.00099099	0.00114432	0.00084837	0.00068568	0.00089395	0.00061805
63	MOTOR TRANS	0.00635012	0.00685957	0.00747188	0.00839841	0.00806001	0.00709214	0.00752828	0.00420128
64	AIR TRANS	0.00099002	0.00141504	0.00128857	0.00154684	0.00145874	0.00087374	0.00116096	0.00089575
65	PIPE TRANS	0.00001090	0.00001423	0.00001541	0.00001580	0.00001206	0.00000987	0.00001257	0.00000885
66	LOCAL TRANS	0.00132387	0.00180520	0.00173977	0.00201179	0.00148669	0.00119141	0.00156747	0.00106400
67	WARE&OTH TR	0.00441432	0.00086230	0.00070275	0.00120015	0.00065197	0.00064427	0.00475089	0.00053270
68	TELEP&TELEG	0.01397768	0.02648258	0.01763197	0.02274544	0.02542430	0.01101052	0.02667861	0.01665714
69	TV,RAD,COMM	0.00728063	0.01636561	0.01114236	0.01764646	0.02042011	0.00476790	0.00383618	0.00158843
70	GAS SERVICE	0.01878875	0.01362613	0.02381840	0.02344143	0.01677388	0.02283022	0.02206157	0.00969246
71	ELEC SERV	0.05172274	0.02368778	0.05289576	0.05242288	0.03848733	0.03339486	0.04608501	0.01582977
72	WT&SAN SER	0.00463941	0.00752855	0.01599670	0.00740672	0.00785371	0.00848176	0.00883018	0.00404195
73	WHL AUTO PTS	0.00193774	0.00390887	0.00301549	0.00275803	0.00218287	0.00180076	0.00216845	0.00139518
74	WHL GRO	0.00556841	0.00758030	0.00736365	0.00844026	0.00628598	0.01650026	0.00662809	0.00450657
75	WHL FM PROD	0.00133994	0.00024164	0.00023413	0.00026907	0.00020004	0.00099374	0.00021081	0.00014331
76	WHL MACH&EQP	0.00153565	0.00188510	0.00189619	0.00196831	0.00186382	0.00146600	0.00176850	0.00158866
77	WHL PETROLEM	0.00238925	0.00311464	0.00382580	0.00321914	0.00345538	0.00264276	0.00274836	0.00172679
78	GEN WHL	0.01294957	0.01147801	0.01259334	0.01320573	0.01131864	0.01948671	0.01266401	0.01905199
79	8LD MAT	0.00280987	0.00378101	0.00387204	0.00420617	0.00313527	0.00313938	0.00330420	0.00228973
80	RTL TRD-GEN	0.02219332	0.03026215	0.02916534	0.03372542	0.02492279	0.01997260	0.02627700	0.01783692
81	FOOD STORES	1.01487162	0.02027819	0.01954312	0.02259883	0.01670044	0.01350661	0.01760791	0.01195224
82	AUTO DL&REP	0.01011114	1.01384018	0.01251836	0.01432898	0.01770661	0.00990410	0.01274199	0.00737730
83	GAS SER STA	0.00416388	0.00589487	1.00586990	0.00635661	0.00679609	0.00430556	0.00552158	0.00520746
84	APPE&ACCESS	0.00530217	0.00722989	0.00696764	1.00805745	0.00595426	0.00477211	0.00627760	0.00426124
85	FURNITURE	0.00434397	0.00592314	0.00570880	0.00660144	1.00487828	0.00390935	0.00514343	0.00349269
86	EAT&DRINK	0.01756141	0.02395482	0.02311043	0.02662065	0.01992271	1.01577864	0.02081216	0.01417744
87	OTH RETAIL	0.01320351	0.01796330	0.01737863	0.02003687	0.01492760	0.01190499	1.01566852	0.01060940
88	BK&CREDIT	0.02225777	0.05882435	0.02884897	0.06008032	0.03952679	0.01532555	0.04388202	1.03583141
89	INSURANCE	0.02580384	0.04018839	0.04468885	0.03253630	0.03945003	0.02491591	0.03068232	0.01950964
90	F.I.R.E	0.03861099	0.05901534	0.08467877	0.06371161	0.09968319	0.02811369	0.08115709	0.03082099
91	LEGAL SER	0.00252870	0.00487499	0.00357111	0.00664002	0.00756841	0.00271699	0.00678540	0.00581408
92	LODGE SER	0.00051436	0.00068127	0.00076125	0.00066440	0.00066648	0.00046525	0.00060185	0.00046219
93	PERSNL SER	0.01701136	0.02309462	0.01920522	0.02802980	0.01917742	0.01702314	0.01731356	0.01175935
94	ADV,DUP&AD	0.00484045	0.01008657	0.00514799	0.00734896	0.00782402	0.00384147	0.00842579	0.01948754
95	PHOTO&REC	0.00529133	0.00731371	0.00691922	0.00806568	0.00604593	0.00473843	0.00632368	0.00582602
96	OTH BUS SE	0.02795424	0.01338217	0.02656002	0.01459109	0.01267544	0.01882559	0.01439052	0.04247006
97	AUTO RENT,PK	0.00204237	0.00272312	0.00263808	0.00303974	0.00230918	0.00247957	0.00873773	0.00167738
98	REPAIR SER	0.01758227	0.00940853	0.00567842	0.00637975	0.00531469	0.00518496	0.00830546	0.00329918
99	PHYS&DEN	0.01084195	0.01479983	0.01428346	0.01645172	0.01221087	0.00976258	0.01283698	0.00871201
100	HOS&LAB SER	0.00922509	0.01242588	0.01269432	0.01377475	0.01073025	0.00826720	0.01136285	0.00776186
101	OTH MED SER	0.00490794	0.00669421	0.00645805	0.00745844	0.00552446	0.00441567	0.00581838	0.00394443
102	ELE&SECD SCH	0.02221878	0.02884253	0.03443592	0.03147831	0.02839586	0.01964503	0.03037423	0.02104999
103	COLL & UNIV	0.00609919	0.00816865	0.00868338	0.00893154	0.00695727	0.00543970	0.00736470	0.00499953
104	OTH ED SER	0.00323597	0.00440351	0.00430157	0.00489445	0.00367198	0.00291225	0.00386987	0.00263004
105	ENG & ARC	0.00023881	0.00036055	0.00048241	0.00039075	0.00055600	0.00018901	0.00045288	0.00018963
106	ACCT,ACD,&BK	0.00976402	0.00796160	0.01123343	0.00770492	0.01316666	0.00328028	0.00729484	0.01618278
107	OTH PROF SER	0.00062459	0.00095205	0.00093493	0.00099220	0.00093459	0.00068307	0.00080206	0.00086442
108	OTH SER	0.01302542	0.01707362	0.01774569	0.02074697	0.01491361	0.01165890	0.01599772	0.01594689
109	HOUSEHOLDS	0.66998837	0.91357745	0.88046600	1.01812997	0.75238624	0.60294879	0.79326966	0.53847155
TOTAL		2.29177933	2.66572785	2.67189323	2.86609230	2.56150884	2.40223530	2.54811611	2.06491328

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

	89	90	91	92	93	94	95	96
1 COTTON	0.00012802	0.00017896	0.00035081	0.00040394	0.00021997	0.00023262	0.00023402	0.00013970
2 CASH GRAINS	0.00079544	0.00092350	0.00198491	0.00191867	0.00125479	0.00136510	0.00144609	0.00082992
3 OTHER GRAINS	0.00052691	0.00064801	0.00142173	0.00131331	0.00089718	0.00094465	0.00099491	0.00059858
4 RANGE LVSTK.	0.00045033	0.00052941	0.00115340	0.00094683	0.00072972	0.00079090	0.00111304	0.00046735
5 FEED LVSTK.	0.00033569	0.00039426	0.00085636	0.00071240	0.00054196	0.00058865	0.00083896	0.00034738
6 DAIRY	0.00211630	0.00261564	0.00548048	0.00777812	0.00348456	0.00372769	0.00383846	0.00223266
7 POULTRY&EGGS	0.00103006	0.00119304	0.00267705	0.00189469	0.00168806	0.00180874	0.00216568	0.00107720
8 AGSUP EXFAMA	0.00033167	0.00039657	0.00088669	0.00070680	0.00055903	0.00059079	0.00063936	0.00035739
9 AG SERVICES	0.00048879	0.00058903	0.00133874	0.00096383	0.00084271	0.00088078	0.00091307	0.00053376
10 PET&NAT GAS	0.00119915	0.00401407	0.00241766	0.00437659	0.00400114	0.00199984	0.00268678	0.00141804
11 OILFIELD SER	0.00006899	0.00023062	0.00013951	0.00025144	0.00022882	0.00011514	0.00015443	0.00008160
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000135	0.00000850	0.00000300	0.00000643	0.00000231	0.00000212	0.00000331	0.00000118
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001149	0.00007270	0.00002580	0.00005485	0.00001925	0.00001814	0.00002825	0.00001010
16 MAINT&REPAIR	0.00889660	0.05726733	0.01993946	0.04291485	0.01468201	0.01398698	0.02195436	0.00769855
17 MEAT PROD	0.00643346	0.00751267	0.01601751	0.01441418	0.01117552	0.01117627	0.01214573	0.00654190
18 DAIRY PROD	0.00561920	0.00695509	0.01456342	0.02087925	0.00926046	0.00990049	0.01007130	0.00593292
19 GRN MILLPRD	0.00301452	0.00339147	0.00737970	0.00591974	0.00465462	0.00510266	0.00522849	0.00300118
20 BAKERY PROD	0.00415403	0.00521123	0.01142182	0.00685546	0.00722716	0.00756681	0.00767266	0.00456957
21 OTHFOODPROD	0.01026173	0.01434640	0.02812054	0.03238414	0.01763282	0.01864700	0.01875844	0.01119850
22 TEXTILE MILL	0.00018197	0.00023240	0.00049978	0.00039278	0.00031640	0.00032870	0.00033635	0.00020304
23 FAB TEX MILL	0.00283509	0.00342495	0.00786982	0.00616643	0.00495784	0.00513890	0.00523372	0.00318234
24 LUM&WOOD PR	0.00078057	0.00339754	0.00190340	0.00278835	0.00131817	0.00132174	0.00176101	0.00076842
25 FURN & FIX	0.00051319	0.00110779	0.00121536	0.00108118	0.00082623	0.00088543	0.00096331	0.00053178
26 PAPER EX BOX	0.00168282	0.00249776	0.00147427	0.00296524	0.00134355	0.01459250	0.00147493	0.00082139
27 BOXS&CONTAIN	0.00168190	0.00212351	0.00390125	0.00412153	0.00249774	0.00320173	0.00285585	0.00179248
28 NEWSPAPERS	0.00311781	0.00980337	0.00792396	0.00987448	0.01887743	0.00559764	0.01960694	0.01957493
29 PUB&PRINTING	0.02125270	0.01993288	0.00544200	0.00727903	0.00371143	0.03661993	0.00571295	0.01986355
30 DRUGS,SPS&CL	0.00115270	0.00142450	0.00305403	0.00689170	0.00272239	0.00202163	0.00207273	0.00259133
31 OTH CHEMICAL	0.00105389	0.00237169	0.00202103	0.00555454	0.00238415	0.00920731	0.00194039	0.00132367
32 PET REF	0.00038945	0.00083652	0.00104097	0.00087680	0.00067970	0.00069841	0.00077013	0.00042380
33 RUBBER PROD	0.00026315	0.00035047	0.00070765	0.00058184	0.00045900	0.00047774	0.00051730	0.00029073
34 PLASTIC PROD	0.00036225	0.00047233	0.00099520	0.00070357	0.00067812	0.00067042	0.00076842	0.00042489
35 LEATHER PROD	0.00012283	0.00014750	0.00034283	0.00020375	0.00021543	0.00022324	0.00022717	0.00013574
36 GLS,ST,CL&CN	0.00066938	0.00202718	0.00162528	0.00220407	0.00131862	0.00117263	0.00140190	0.00080418
37 PRIMARY MET	0.00065260	0.00300004	0.00150621	0.00245984	0.00168660	0.00111843	0.00163474	0.00089735
38 FAB STEEL	0.00000089	0.00000570	0.00000199	0.00000427	0.00000147	0.00000139	0.00000219	0.00000077
39 PLATE WORK	0.00000960	0.00005920	0.00002132	0.00004493	0.00001575	0.00001578	0.00000238	0.00000844
40 SH METAL&ARC	0.00007585	0.00022272	0.00019668	0.00021141	0.00013010	0.00013177	0.00015641	0.00007788
41 METAL DOORS	0.00004878	0.00031222	0.00010909	0.00023408	0.00008041	0.00007717	0.00011995	0.00004247
42 FAB MET PROD	0.00036725	0.00051349	0.00100638	0.00115896	0.00063111	0.00066735	0.00067137	0.00040080
43 PLU,HEAT&REF	0.00048540	0.00199018	0.00119314	0.00164968	0.00081789	0.00081129	0.00105746	0.00051916
44 ELECTROPLAT	0.00001883	0.00004383	0.00003918	0.00004844	0.00005452	0.00003460	0.00003275	0.00003413
45 OTH FAB MET	0.00011859	0.00024135	0.00030857	0.00037042	0.00044781	0.00023315	0.00022661	0.00020836
46 FM,CN, ID MA	0.00000633	0.00001368	0.00001473	0.00001742	0.00001180	0.00001405	0.00001247	0.00000705
47 MIN MACH	0.00000009	0.00000029	0.00000018	0.00000032	0.00000029	0.00000015	0.00000020	0.00000010
48 MET WK MACH	0.00003378	0.00011506	0.00007455	0.00010579	0.00012657	0.00006092	0.00012371	0.00012219
49 IND PRO MACH	0.00002391	0.00002517	0.00002381	0.00001995	0.00001744	0.00003838	0.00001863	0.00002205
50 ENG&GEN MACH	0.00000822	0.00001135	0.00001168	0.00001029	0.00000881	0.00001738	0.00000971	0.00000963
51 OTH MAC&EQUP	0.00003912	0.00015213	0.00006979	0.00012125	0.00005199	0.00006788	0.00006931	0.00003613
52 ELEC INS	0.00016738	0.00069557	0.00033259	0.00062727	0.00026349	0.00024997	0.00034405	0.00015520
53 ELEC COM	0.00004895	0.00011525	0.00011957	0.00013370	0.00013175	0.00008759	0.00011109	0.00007217
54 OTH ELEC APP	0.00011922	0.00014639	0.00033018	0.00020181	0.00020969	0.00021879	0.00022580	0.00013263
55 AIRCRAFT&ORD	0.00000615	0.00000738	0.00001716	0.00001020	0.00001078	0.00001117	0.00001137	0.00000679
56 AIRCRAFT PAR	0.00001730	0.00001804	0.00003076	0.00001876	0.00002047	0.00004776	0.00002259	0.00002516
57 MOTOR VECH	0.00272485	0.00335728	0.00744046	0.00545701	0.00553189	0.00505697	0.00506201	0.00325975

58	OTH TRAN EQ	0.00092129	0.00110628	0.00257066	0.00152796	0.00161560	0.00167439	0.00172200	0.00101793
59	PROF, SC&CONT	0.00041161	0.00053870	0.00111464	0.00067838	0.00079403	0.00074829	0.00085285	0.00046271
60	OTH MFG	0.00072624	0.00095541	0.00180878	0.00127851	0.02247517	0.00187723	0.00148497	0.00092895
61	RAIL TRANS	0.00147244	0.00215167	0.00325534	0.00355045	0.00301547	0.00354030	0.00347315	0.00276286
62	INTERCITY TR	0.00047519	0.00057311	0.00130699	0.00080213	0.00082278	0.00092897	0.00427641	0.00052119
63	MOTOR TRANS	0.00335678	0.00516948	0.00804412	0.00676918	0.00677569	0.00801729	0.00743681	0.00486247
64	AIR TRANS	0.00130974	0.00127962	0.00177575	0.00110716	0.00123835	0.00413076	0.00141380	0.00209557
65	PIPE TRANS	0.00000662	0.00001421	0.00001768	0.00001489	0.00001155	0.00001186	0.00001308	0.00000720
66	LOCAL TRANS	0.00082420	0.00098973	0.00230042	0.00136719	0.00144559	0.00149795	0.00152434	0.00091083
67	WARE&OTH TR	0.00042076	0.00048572	0.00086958	0.00184963	0.00059330	0.00251374	0.00074895	0.00051069
68	TELEP&TELEG	0.01141253	0.03530770	0.02970435	0.03056604	0.01709248	0.03515292	0.02084934	0.01709257
69	TV, RAD, COMM	0.00075387	0.00116466	0.00182624	0.00158057	0.01274284	0.00138619	0.00535748	0.00525496
70	GAS SERVICE	0.00739698	0.02487885	0.01485032	0.02712866	0.02483685	0.01230937	0.01659969	0.00875618
71	ELEC SERV	0.01275166	0.05181224	0.02634669	0.06876544	0.03630837	0.02622836	0.04316477	0.01484398
72	WT&SAN SER	0.00333841	0.00808801	0.00653616	0.01079327	0.00843554	0.00551241	0.00746251	0.00518793
73	WHL AUTO PTS	0.00121410	0.00155578	0.00296283	0.00214076	0.00207243	0.00213636	0.00216697	0.00134874
74	WHL GRO	0.00359359	0.00441390	0.00962530	0.01381140	0.00609150	0.00643645	0.00807357	0.00388502
75	WHL FM PROD	0.00011618	0.00013872	0.00030714	0.00025792	0.00019390	0.00020630	0.00024230	0.00012357
76	WHL MACH&EQP	0.00121463	0.00170987	0.00190579	0.00223038	0.00590210	0.00824101	0.00324789	0.00212823
77	WHL PETROLEM	0.00146255	0.00191037	0.00357776	0.00250041	0.00246080	0.00260780	0.00256744	0.00162429
78	GEN WHL	0.01342148	0.01519279	0.01422523	0.04562950	0.00983753	0.02387043	0.01727636	0.00841079
79	BLD MAT	0.00174241	0.00290529	0.00476238	0.00344933	0.00303546	0.00312709	0.00332695	0.00188586
80	RTL TRD-GEN	0.01381696	0.01659197	0.03856388	0.02291945	0.02423370	0.02511173	0.02555380	0.01526929
81	FOOD STORES	0.00925926	0.01111851	0.02588292	0.01535942	0.01623857	0.01682738	0.01712324	0.01023174
82	AUTO DL&REP	0.00610313	0.00792302	0.01577494	0.02110891	0.01350265	0.01071608	0.01102648	0.00671086
83	GAS SER STA	0.00365195	0.00386940	0.00800135	0.01042137	0.00512441	0.00998268	0.00495594	0.00413406
84	APPEACCESS	0.00330085	0.00396380	0.00921297	0.00547554	0.00585851	0.00599919	0.00610485	0.00364782
85	FURNITURE	0.00270601	0.00324905	0.00754872	0.00448765	0.00474407	0.00491582	0.00500244	0.00298968
86	EAT&DRINK	0.01722996	0.01381807	0.03032341	0.01826789	0.01910882	0.02427619	0.02103004	0.01312850
87	OTH RETAIL	0.00826067	0.00992245	0.02291167	0.01940263	0.01439999	0.01576694	0.01520675	0.00907843
88	BK&CREDIT	0.01183328	0.16625380	0.02669116	0.03088254	0.01481014	0.02005276	0.01781426	0.00996093
89	INSURANCE	1.01405697	0.2326285	0.03406849	0.03449742	0.02311036	0.03011894	0.02816349	0.01506131
90	F.I.R.E	0.03991440	1.03263553	0.08562212	0.08659276	0.03424302	0.06147725	0.04835339	0.02200523
91	LEGAL SER	0.00494438	0.01506132	1.00367805	0.00707653	0.00361044	0.00764034	0.00451959	0.00377812
92	LODGE SER	0.00714246	0.00161125	0.00075016	1.00064252	0.00047473	0.00059261	0.00151177	0.00295411
93	PERSNL SER	0.00913671	0.01097876	0.02537385	0.01520431	1.03160865	0.01715678	0.01685976	0.01007874
94	ADV, DUP&AD	0.00946723	0.01244177	0.00434368	0.02100074	0.00358654	1.00923363	0.02054998	0.00681633
95	PHOTO&REC	0.00352691	0.00436145	0.00904380	0.00635932	0.00573351	0.02584756	1.02107359	0.00375362
96	OTH BUS SE	0.01522777	0.03442522	0.01604138	0.02222126	0.01310792	0.01251911	0.01458703	1.01223994
97	AUTO RENT, PK	0.00169127	0.00159343	0.00372895	0.00244311	0.00493016	0.00233904	0.00234478	0.00158962
98	REPAIR SER	0.00295277	0.00338097	0.00676090	0.04565432	0.00479641	0.00486432	0.00475111	0.00301391
99	PHYS&DEN	0.01014321	0.00812112	0.01880060	0.01122510	0.01182072	0.01231297	0.01397243	0.00745077
100	HOS&LAB SER	0.00576673	0.00978166	0.01544399	0.00985374	0.01023351	0.01112449	0.01193417	0.00654163
101	OTH MED SER	0.00317628	0.00387794	0.00853073	0.00507920	0.00535691	0.00555854	0.00570345	0.00337546
102	ELE&SECD SCH	0.01364269	0.04337786	0.03316913	0.02597650	0.02576748	0.03137459	0.03171053	0.01706821
103	COLL & UNIV	0.00552316	0.00629361	0.00995338	0.00694201	0.00769307	0.00725769	0.00754176	0.00463672
104	OTH ED SER	0.00201356	0.00265757	0.00558336	0.00337333	0.00355063	0.00372338	0.00378430	0.00224232
105	ENG & ARC	0.00022749	0.00512209	0.00049457	0.00047585	0.00022413	0.00035841	0.00029208	0.00014499
106	ACCT, ACD, &BK	0.00537097	0.01281382	0.01134566	0.01617980	0.00492936	0.01061463	0.00577110	0.00360519
107	OTH PROF SER	0.01422306	0.00073295	0.00079742	0.00107894	0.00069159	0.01818851	0.00094278	0.00047095
108	OTH SER	0.01425545	0.01530748	0.02449375	0.01902382	0.01699010	0.01734273	0.01769771	0.01278777
109	HOUSEHOLDS	0.41711169	0.50088529	1.16419767	0.69190913	0.73158649	0.75809288	0.77143802	0.46095628
TOTAL		1.83091701	2.31545137	2.97587028	2.61822092	2.36050484	2.50409788	2.46208169	1.86615301

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

	97	98	99	100	101	102	103	104
1 COTTON	0.00013050	0.00021989	0.00024946	0.00028995	0.00029323	0.00056232	0.00032382	0.00028975
2 CASH GRAINS	0.00073988	0.00125065	0.00142274	0.00164903	0.00175076	0.00341368	0.00191002	0.00165220
3 OTHER GRAINS	0.00052737	0.00089481	0.00101625	0.00116707	0.00122408	0.00218995	0.00130448	0.00118350
4 RANGE LVSTK.	0.00042976	0.00072711	0.00083609	0.00103147	0.00124986	0.00202316	0.00105811	0.00096102
5 FEED LVSTK.	0.00031931	0.00053995	0.00062136	0.00076943	0.00093866	0.00153592	0.00078572	0.00071353
6 DAIRY	0.00206206	0.00346325	0.00394368	0.00449711	0.00475032	0.01323308	0.00503576	0.00456919
7 POULTRY&EGGS	0.00099056	0.00168474	0.00192117	0.00227336	0.00254255	0.00358111	0.00245301	0.00222990
8 AGSUP EXFAMA	0.00032805	0.00055789	0.00063379	0.00073196	0.00077774	0.00121365	0.00081667	0.00073843
9 AG SERVICES	0.00049351	0.00084161	0.00095386	0.00108977	0.00112976	0.00157746	0.00122844	0.00111486
10 PET&NAT GAS	0.00132821	0.00216566	0.00237731	0.00329876	0.00289766	0.00310609	0.00354263	0.00213835
11 DILFIELD SER	0.00007635	0.00012466	0.00013662	0.00018921	0.00016659	0.00017923	0.00020436	0.00012319
12 RES CONS	0	0	0	0	0	0	0	0
13 COMM&ED CONS	0.00000150	0.00000294	0.00000220	0.00000239	0.00000284	0.00000341	0.00000309	0.00000218
14 IND CONS	0	0	0	0	0	0	0	0
15 FAC CONS	0.00001284	0.00002515	0.00001870	0.00002020	0.00002421	0.00002918	0.00002694	0.00001870
16 MAINT&REPAIR	0.00093894	0.01957259	0.01441422	0.01544556	0.01869693	0.02249956	0.02017934	0.01436713
17 MEAT PROD	0.00599907	0.01011033	0.01169018	0.01480832	0.0179308	0.03263793	0.01470898	0.01334769
18 DAIRY PROD	0.00548049	0.00920337	0.01047634	0.01191422	0.01251682	0.03534670	0.01338200	0.01214200
19 GRN MILLPRD	0.00274069	0.00464479	0.00527377	0.00609608	0.00635708	0.01064334	0.00727682	0.00613976
20 BAKERY PROD	0.00425179	0.00719907	0.00816956	0.00948571	0.00943974	0.02071686	0.01046769	0.00951978
21 DTHFOODPROD	0.01046044	0.01762642	0.01999673	0.02324212	0.02350506	0.04507993	0.02595728	0.02322635
22 TEXTILE MILL	0.00018635	0.00031690	0.00036093	0.00068769	0.00041422	0.00047303	0.00102895	0.00041564
23 FAB TEX MILL	0.00290353	0.00495515	0.00565739	0.01124309	0.00650824	0.00741052	0.00745081	0.00655550
24 LUM&WOOD PR	0.00084207	0.00156251	0.00137128	0.00152142	0.00169691	0.00212614	0.00276978	0.00145522
25 FURN & FIX	0.00052490	0.00085172	0.00094139	0.00099104	0.00104029	0.00123825	0.00268356	0.00098645
26 PAPER EX BOX	0.00071577	0.00103232	0.00120571	0.00198911	0.00129207	0.00404283	0.00628494	0.00114011
27 BOX&CONTAIN	0.00155036	0.00260360	0.00284392	0.00376542	0.00350496	0.00618395	0.00407345	0.00322217
28 NEWSPAPERS	0.00509350	0.00535463	0.00558395	0.00629131	0.00650425	0.00723857	0.00780788	0.00646947
29 PUB&PRINTING	0.00502401	0.01522028	0.00539118	0.00549437	0.00539960	0.00512792	0.00888306	0.00348879
30 DRUGS,SP&ECL	0.00115179	0.00193709	0.00289941	0.01789293	0.00527773	0.00300590	0.00385676	0.00254020
31 OTH CHEMICAL	0.00093982	0.00158980	0.00150766	0.00279872	0.00183287	0.00285440	0.00427577	0.00162156
32 PET REF	0.00041038	0.00073322	0.00074992	0.00083975	0.00088182	0.00101007	0.00097647	0.00084918
33 RUBBER PROD	0.00060672	0.00055650	0.00052553	0.00087915	0.00073088	0.00068070	0.00076018	0.00058776
34 PLASTIC PROD	0.00036955	0.00063240	0.00071134	0.00085884	0.00083669	0.00096492	0.00123301	0.00082699
35 LEATHER PROD	0.00012584	0.00021533	0.00024365	0.00027687	0.00028334	0.00032254	0.00031360	0.00028553
36 GLS,ST,CL&CN	0.00069810	0.00125184	0.00122647	0.00145845	0.00153576	0.00208281	0.00233521	0.00130467
37 PRIMARY MET	0.00083735	0.00136812	0.00110587	0.00124673	0.00136405	0.00160633	0.00307451	0.00115059
38 FAB STEEL	0.00000099	0.00000195	0.00000144	0.00000154	0.00000186	0.00000224	0.00000202	0.00000143
39 PLATE WORK	0.00001086	0.00002079	0.00001544	0.00001694	0.00002004	0.00002398	0.00002383	0.00001546
40 SH METAL&ARC	0.00007988	0.00014349	0.00014088	0.00016670	0.00016924	0.00020405	0.00025444	0.00015744
41 METAL DOORS	0.00005434	0.00010691	0.00007884	0.00008457	0.00010224	0.00012309	0.00011102	0.00007868
42 FAB MET PROD	0.00037438	0.00063083	0.00071564	0.00083185	0.00084120	0.00161323	0.00092919	0.00083125
43 PLU,HEAT&REF	0.00052068	0.00096229	0.00085800	0.00094419	0.00105457	0.00123920	0.00315174	0.00092707
44 ELECTROPLAT	0.00001791	0.00003086	0.00002886	0.00004283	0.00003573	0.00004887	0.00006522	0.00003136
45 OTH FAB MET	0.00012451	0.00022213	0.00022710	0.00042150	0.00034990	0.00043419	0.00043871	0.00025179
46 FM,CN, ID MA	0.00000644	0.00001080	0.00001137	0.00001381	0.00001393	0.00001724	0.00001930	0.00001223
47 MIN MACH	0.00000010	0.00000016	0.00000017	0.00000024	0.00000021	0.00000023	0.00000026	0.00000016
48 MET WK MACH	0.00004653	0.00006090	0.00005543	0.00006137	0.00006542	0.00007331	0.000061181	0.00005959
49 IND PRO MACH	0.00001309	0.00002310	0.00001978	0.00002018	0.00002099	0.00002740	0.000138630	0.00001986
50 ENG&GEN MACH	0.00000579	0.00000898	0.00000887	0.00000972	0.00000995	0.00001185	0.000041648	0.00000992
51 OTH MAC&EQUP	0.00003524	0.00006504	0.00005214	0.00005748	0.00006424	0.00007763	0.000113629	0.00005262
52 ELEC INS	0.00017837	0.00029644	0.00024554	0.00031900	0.00031535	0.00034840	0.000198933	0.00025517
53 ELEC COM	0.00006254	0.00008567	0.00008567	0.00014536	0.00010256	0.00011441	0.00030568	0.00011794
54 OTH ELEC APP	0.00012290	0.00020991	0.00023643	0.00037776	0.00027396	0.00031373	0.00035952	0.00027417
55 AIRCRAFT&ORD	0.00000630	0.00001078	0.00001220	0.00001386	0.00001478	0.00001614	0.00001570	0.00001429
56 AIRCRAFT PAR	0.00001225	0.00001906	0.00002075	0.00002381	0.00002374	0.00002984	0.00005379	0.00002614
57 MOTOR VECH	0.07673149	0.02192198	0.00530274	0.00615775	0.00648507	0.00711663	0.00726606	0.00617844

58	OTH TRAN EQ	0.00094384	0.00161470	0.00182719	0.00207609	0.00212468	0.00241850	0.00248323	0.00214108
59	PROF,SC&CONT	0.00042491	0.00070572	0.00113960	0.01631601	0.00117160	0.00104732	0.00449734	0.00093096
60	OTH MFG	0.00111235	0.00136386	0.00130156	0.00135383	0.00148682	0.00156696	0.00188144	0.00153362
61	RAIL TRANS	0.00205867	0.00473868	0.00322826	0.00309970	0.00314631	0.00321527	0.00398718	0.00268453
62	INTERCITY TR	0.00048367	0.00082436	0.00093415	0.00105719	0.00108068	0.00132681	0.00121647	0.00108752
63	MOTOR TRANS	0.00402594	0.01530075	0.00628211	0.00926788	0.00746633	0.00832225	0.00814152	0.00716042
64	AIR TRANS	0.00075461	0.00108789	0.00114279	0.00132390	0.00128753	0.00176721	0.00437613	0.00153565
65	PIPE TRANS	0.00000697	0.00001245	0.00001274	0.00001426	0.00001498	0.00001716	0.00001659	0.00001442
66	LOCAL TRANS	0.00084442	0.00144492	0.00163495	0.00185784	0.00190127	0.00216427	0.00210430	0.00191594
67	WARE&OTH TR	0.00034643	0.00057507	0.00067116	0.00072854	0.00127413	0.00093361	0.00092220	0.00071658
68	TELEP&TELEG	0.01025630	0.01665514	0.01601439	0.01765157	0.02060931	0.01825380	0.03891126	0.01459847
69	TV,RAD,COMM	0.00356212	0.00152937	0.00133703	0.00154286	0.00158384	0.00175970	0.00416977	0.00150209
70	GAS SERVICE	0.00819874	0.01335220	0.01467114	0.02040608	0.01789037	0.01915946	0.02189367	0.01315271
71	ELEC SERV	0.02003312	0.03049016	0.02469121	0.03767929	0.03044509	0.03460365	0.04625148	0.02539454
72	WT&SAN SER	0.00327947	0.00596724	0.00636451	0.00902976	0.00907051	0.00766873	0.01344509	0.00556363
73	WHL AUTO PTS	0.00129843	0.00232683	0.00212122	0.00245995	0.00254427	0.00293944	0.00309450	0.00254247
74	WHL GRO	0.00358630	0.00606805	0.00715737	0.01628189	0.01291996	0.01671393	0.00882603	0.00831601
75	WHL FM PROD	0.00011394	0.00019341	0.00022056	0.00026630	0.00028720	0.00047137	0.00028184	0.00025581
76	WHL MACH&EQP	0.00114158	0.01148816	0.01009216	0.02280591	0.00948080	0.00897729	0.00585310	0.00169186
77	WHL PETROLEM	0.00305319	0.00372434	0.00262171	0.00301584	0.00309131	0.00383088	0.00397048	0.00324658
78	GEN WHL	0.00707371	0.00966439	0.01862437	0.01426011	0.01234486	0.02419038	0.03765836	0.01003227
79	BLD MAT	0.00180480	0.00311854	0.00339163	0.00384699	0.00398893	0.00468626	0.00441015	0.00392846
80	RTL TRD-GEN	0.01415571	0.02422257	0.02740813	0.03114463	0.03187267	0.03628153	0.03527634	0.03211853
81	FOOD STORES	0.00948552	0.01625712	0.01836573	0.02086940	0.02135727	0.02431182	0.02363808	0.02152192
82	AUTO DL&REP	0.03341687	0.03291426	0.01137158	0.01302549	0.01305721	0.01540632	0.01497685	0.01305831
83	GAS SER STA	0.00264957	0.00466186	0.00527214	0.00571253	0.00609793	0.00687503	0.00696700	0.00587232
84	APP&ACCESS	0.00338182	0.00578679	0.00654785	0.00744053	0.00761471	0.00866784	0.00842764	0.00767317
85	FURNITURE	0.00277099	0.00474174	0.00536827	0.00609596	0.00623941	0.00710121	0.00690488	0.00628630
86	EAT&DRINK	0.01127759	0.01910570	0.02161223	0.02452914	0.02514674	0.02853279	0.02784803	0.02522425
87	OTH RETAIL	0.00844159	0.01441663	0.01627799	0.01846278	0.01892280	0.02174058	0.02111044	0.01909912
88	BK&CREDIT	0.01873958	0.02462482	0.02221456	0.03137498	0.02072093	0.01977083	0.03162667	0.01707213
89	INSURANCE	0.02764381	0.02613260	0.03198354	0.03045205	0.03355018	0.03573103	0.03555382	0.02866456
90	F.I.R.E	0.07886733	0.05546851	0.03890224	0.03508530	0.05161815	0.04047467	0.11277507	0.03577860
91	LEGAL SER	0.00322295	0.00372863	0.00600915	0.00399721	0.00422016	0.00312258	0.00739097	0.00315426
92	LODGE SER	0.00044614	0.00051972	0.00058393	0.00064131	0.00075309	0.00069300	0.00081150	0.00057479
93	PERSNL SER	0.00942513	0.01603575	0.01818630	0.02079383	0.02499956	0.02430320	0.02436431	0.02112952
94	ADV, DUP&AD	0.00392762	0.00576709	0.00292150	0.00369010	0.00342987	0.00376402	0.00982745	0.00287840
95	PHOTO&REC	0.00339763	0.00578804	0.00647292	0.00732084	0.00747848	0.00849811	0.00984625	0.00752326
96	OTH BUS SE	0.00671609	0.00954775	0.01459332	0.01548224	0.01235023	0.01161619	0.02820034	0.00994190
97	AUTO RENT,PK	1.00136355	0.00219456	0.00256915	0.00290192	0.00523392	0.00346251	0.00835991	0.00284395
98	REPAIR SER	0.00289657	1.00496300	0.00500056	0.00584846	0.00697545	0.00674539	0.00682924	0.00572738
99	PHYS&DEN	0.00695299	0.01182583	1.01338848	0.01519439	0.01555694	0.01770048	0.01721896	0.01565899
100	HOS&LAB SER	0.00629209	0.00996794	0.02352053	1.01420488	0.01276077	0.01437851	0.01433396	0.01294018
101	OTH MED SER	0.00314302	0.00535920	0.04067669	0.00688283	1.00704723	0.00801798	0.00781136	0.00709761
102	ELE&SECD SCH	0.01798294	0.02327978	0.02838909	0.02600533	0.02731725	1.02989988	0.03221783	0.02834390
103	COLL & UNIV	0.00532623	0.00649317	0.00836602	0.00798274	0.00865590	0.00923924	1.00923338	0.00881199
104	OTH ED SER	0.00209358	0.00353138	0.00400532	0.00449611	0.00461573	0.00523430	0.00511975	1.00464878
105	ENG & ARC	0.00041825	0.00032295	0.00024400	0.00023234	0.00031570	0.00027050	0.00063907	0.00023658
106	ACCT,ACD,&BK	0.00467372	0.00703727	0.00541297	0.00368733	0.01364601	0.00388267	0.00441066	0.00318866
107	OTH PROF SER	0.00055929	0.00064485	0.00068170	0.00070553	0.00074256	0.00086634	0.00308075	0.00065482
108	OTH SER	0.00928094	0.01651302	0.02981676	0.01774503	0.02199719	0.01985607	0.02112707	0.01742917
109	HOUSEHOLDS	0.42734296	0.73124685	0.82741851	0.94021908	0.96219767	1.09529603	1.06494919	0.96962062
TOTAL		1.94739150	2.37122399	2.49365994	2.67451312	2.67812751	2.93555200	3.02645274	2.58141192

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

	105	106	107	108	HOUSEHOLDS
1 COTTON	0.00033590	0.00025521	0.00033128	0.00025188	0.00039476
2 CASH GRAINS	0.00191687	0.00145347	0.00188619	0.00144421	0.00225009
3 OTHER GRAINS	0.00137120	0.00103991	0.00134972	0.00102765	0.00161297
4 RANGE LVSTK.	0.00111458	0.00084531	0.00109759	0.00083990	0.00130868
5 FEED LVSTK.	0.00082760	0.00062776	0.00081511	0.00062392	0.00097152
6 DAIRY	0.00529180	0.00403167	0.00522511	0.00398261	0.00620743
7 POULTRY&EGGS	0.00258607	0.00195724	0.00254136	0.00194269	0.00304135
8 AGSUP EXFAMA	0.00085578	0.00064821	0.00084138	0.00064147	0.00100704
9 AG SERVICES	0.00129163	0.00097762	0.00126905	0.00096608	0.00152150
10 PET&NAT GAS	0.00238724	0.00175366	0.00259597	0.00279668	0.00255560
11 OILFIELD SER	0.00013774	0.00010119	0.00014976	0.00016080	0.00014752
12 RES CONS	0	0	0	0	0
13 COMM&ED CONS	0.00000292	0.00000211	0.00000299	0.00000357	0.00000293
14 IND CONS	0	0	0	0	0
15 FAC CONS	0.00002845	0.00001810	0.00002567	0.00003045	0.00002520
16 MAINT&REPAIR	0.01935588	0.01397672	0.01980171	0.02370631	0.01941227
17 MEAT PROD	0.01548701	0.01175856	0.01526814	0.01170789	0.01815700
18 DAIRY PRDD	0.01406161	0.01071422	0.01388510	0.01058182	0.01649468
19 GRN MILLPRD	0.00712820	0.00539455	0.00700209	0.00537284	0.00836987
20 BAKERY PROD	0.01102126	0.00837329	0.01085905	0.00825728	0.01296199
21 OTHFOODPROD	0.02692505	0.02045708	0.02655498	0.02019064	0.03164312
22 TEXTILE MILL	0.00048210	0.00036457	0.00047393	0.00036379	0.00056681
23 FAB TEX MILL	0.00759381	0.00574468	0.00745791	0.00567927	0.00894913
24 LUM&WOOD PR	0.00183539	0.00134933	0.00184288	0.00185817	0.00197453
25 FURN & FIX	0.00116697	0.00087747	0.00116376	0.00099871	0.00132316
26 PAPER EX BOX	0.00224742	0.00116090	0.00151762	0.00145833	0.00152471
27 BOX&CONTAIN	0.00381337	0.00287337	0.00401086	0.00305757	0.00438259
28 NEWSPAPERS	0.00748567	0.00594023	0.00762563	0.00575579	0.00860350
29 PUB&PRINTING	0.00739267	0.00535197	0.03458936	0.02460102	0.00461004
30 DRUGS,SP&ECL	0.00294702	0.00223262	0.00291667	0.00225451	0.00345887
31 OTH CHEMICAL	0.00254106	0.00147929	0.00225192	0.00205642	0.00218678
32 PET REF	0.00100729	0.00075383	0.00099549	0.00082805	0.00115459
33 RUBBER PROD	0.00074887	0.00051665	0.00068256	0.00052103	0.00079899
34 PLASTIC PROD	0.00105849	0.00072667	0.00094802	0.00073065	0.00112822
35 LEATHER PROD	0.00033075	0.00025005	0.00032466	0.00024694	0.00039002
36 GLS,ST,CL&CN	0.00159206	0.00117313	0.00171973	0.00149189	0.00175210
37 PRIMARY MET	0.00311005	0.00207742	0.00153088	0.00155656	0.00154043
38 FAB STEEL	0.00000196	0.00000139	0.00000197	0.00000236	0.00000194
39 PLATE WORK	0.00002094	0.00001501	0.00002135	0.00002509	0.00002087
40 SH METAL&ARC	0.00019365	0.00014188	0.00018918	0.00016824	0.00021431
41 METAL DOORS	0.00010621	0.00007680	0.00010839	0.00012950	0.00010622
42 FAB MET PROD	0.00096679	0.00073212	0.00095036	0.00072260	0.00113244
43 PLU,HEAT&REF	0.00211662	0.00085466	0.00115956	0.00114294	0.00125750
44 ELECTROPLAT	0.00010193	0.00002869	0.00004442	0.00003651	0.00004217
45 OTH FAB MET	0.00086616	0.00022435	0.00030306	0.00024199	0.00034073
46 FM,CN, ID MA	0.00001467	0.00001076	0.00001556	0.00001291	0.00001622
47 MIN MACH	0.00000018	0.00000013	0.00000019	0.00000021	0.00000019
48 MET WK MACH	0.00007287	0.00005519	0.00007735	0.00006654	0.00007868
49 IND PRO MACH	0.00002451	0.00001872	0.00004266	0.00003201	0.00002561
50 ENG&GEN MACH	0.00001247	0.00001185	0.00001477	0.00001159	0.00001210
51 OTH MAC&EQUP	0.00008311	0.00005042	0.00008153	0.00008129	0.00006988
52 ELEC INS	0.02727240	0.00023771	0.00033538	0.00033303	0.00033605
53 ELEC COM	0.00278581	0.00008688	0.00011798	0.00009778	0.00012788
54 OTH ELEC APP	0.00032184	0.00024077	0.00031597	0.00026572	0.00037397
55 AIRCRAFT&ORD	0.00001655	0.00001252	0.00001625	0.00001236	0.00001952
56 AIRCRAFT PAR	0.00003287	0.00003583	0.00003212	0.00002335	0.00003178
57 MOTOR VECH	0.00717679	0.00557526	0.00735301	0.00538791	0.00842134

58	OTH TRAN EQ	0.00248016	0.00187505	0.00243460	0.00185182	0.00292451
59	PROF, SC&CONT	0.00142914	0.00082115	0.00106622	0.00090558	0.00126121
60	OTH MFG	0.00169144	0.00136086	0.00309746	0.00160748	0.00184351
61	RAIL TRANS	0.00336780	0.00226329	0.00335822	0.00289671	0.00325396
62	INTERCITY TR	0.00126583	0.00095619	0.00125333	0.00095555	0.00148456
63	MOTOR TRANS	0.00804047	0.00590318	0.00828845	0.00632704	0.00879479
64	AIR TRANS	0.00205564	0.00273194	0.00200226	0.00140700	0.00167600
65	PIPE TRANS	0.00001711	0.00001280	0.00001691	0.00001407	0.00001961
66	LOCAL TRANS	0.00221941	0.00167789	0.00217854	0.00165700	0.00261710
67	WARE&OTH TR	0.00096919	0.00064874	0.00444349	0.00067289	0.00097040
68	TELEP&TELEG	0.02725516	0.01999776	0.03610419	0.02348696	0.01911328
69	TV,RAD,COMM	0.00184855	0.00132378	0.00179579	0.00149280	0.00201821
70	GAS SERVICE	0.01466749	0.01077201	0.01597566	0.01727205	0.01568403
71	ELEC SERV	0.02704840	0.01908892	0.02774712	0.04098673	0.02728282
72	WT&SAN SER	0.00680190	0.00477467	0.01028279	0.00722341	0.00706888
73	WHL AUTO PTS	0.00299387	0.00213053	0.00295690	0.00213913	0.00326149
74	WHL GRD	0.00929109	0.00705705	0.00915789	0.00696996	0.01092143
75	WHL FM PROD	0.00029650	0.00022475	0.00029172	0.00022260	0.00034865
76	WHL MACH&EQP	0.00244849	0.00396765	0.00224921	0.00154764	0.00195883
77	WHL PETROLEM	0.00373854	0.00271431	0.00368811	0.00265965	0.00399768
78	GEN WHL	0.01439222	0.01489026	0.01610602	0.01677591	0.01294015
79	BLD MAT	0.00459760	0.00346434	0.00452724	0.00359781	0.00536013
80	RTL TRD-GEN	0.03720587	0.02812801	0.03652100	0.02777802	0.04387270
81	FOOD STORES	0.02493085	0.01884799	0.02447179	0.01861346	0.02939809
82	AUTO DL&REP	0.01531528	0.01147273	0.01529125	0.01444594	0.01765985
83	GAS SER STA	0.00732044	0.00511595	0.00723328	0.01095813	0.00781307
84	APP&ACCESS	0.00888854	0.00671982	0.00872485	0.00663616	0.01048126
85	FURNITURE	0.00728243	0.00550578	0.00714831	0.00570327	0.00858683
86	EAT&DRINK	0.02954125	0.02213436	0.02875780	0.02275736	0.03444392
87	OTH RETAIL	0.02216122	0.01671691	0.02168167	0.01669869	0.02599341
88	BK&CREDIT	0.02828558	0.02262459	0.02720532	0.01663345	0.02234827
89	INSURANCE	0.03531619	0.02781820	0.03446725	0.02876052	0.03809797
90	F.I.R.E	0.05089730	0.05787943	0.06554899	0.03629149	0.04735145
91	LEGAL SER	0.00377318	0.00339111	0.00492714	0.00377977	0.00345561
92	LDGGE SER	0.00070635	0.00055997	0.00074029	0.00055222	0.00077108
93	PERSNL SER	0.02452367	0.01850913	0.02405150	0.01830992	0.02885606
94	ADV, DUP&AD	0.06980523	0.00304784	0.00681129	0.00536084	0.00366175
95	PHOTO&REC	0.01002504	0.00660489	0.01206090	0.00911375	0.01023583
96	OTH BUS SE	0.01521983	0.00954936	0.02411850	0.01374508	0.01244384
97	AUTO RENT,PK	0.00333930	0.00464728	0.00328744	0.00252329	0.00386841
98	REPAIR SER	0.00666934	0.00523707	0.00704002	0.00510225	0.00759792
99	PHYS&DEN	0.01815001	0.01372304	0.01851256	0.01356170	0.02138583
100	HOS&LAB SER	0.01489498	0.01172399	0.01508637	0.01158896	0.01723196
101	OTH MED SER	0.00822414	0.00622161	0.00810005	0.00614015	0.00969462
102	ELE&SECD SCH	0.03197327	0.02841493	0.03561864	0.02625781	0.03456266
103	COLL & UNIV	0.00964006	0.00758010	0.01001176	0.00804057	0.01104635
104	OTH ED SER	0.00538531	0.00410630	0.00530976	0.00403813	0.00631539
105	ENG & ARC	1.03529796	0.00033850	0.00039894	0.00023761	0.00031554
106	ACCT, ACD, &BK	0.00443733	1.03451265	0.01449323	0.01094051	0.00385984
107	OTH PROF SER	0.00214524	0.00062363	1.00088607	0.00071384	0.00086786
108	OTH SER	0.02153319	0.01724801	0.02140680	1.03727010	0.02376851
109	HOUSEHOLDS	1.12320007	0.84915095	1.10251632	0.83857883	1.32446523
TOTAL		3.01467255	2.48148025	2.94418642	2.52058298	2.13031178

sector purchases the least amount and the Poultry and Eggs sector the greatest amount of regionally produced goods and services per dollar of output.

The total direct and indirect effects of an additional dollar of sales to final demand by a given sector is represented by the sector's column total in Table 6. The indirect effect is found by subtracting the direct effect from the total-direct-plus-indirect-effect. The indirect effect is shown by sector in the second column of Table 8. The direct effect explained that certain sectors must provide the direct inputs which are a result of an increase in output by the sector whose direct, indirect, and induced effects are being analyzed. A chain of expenditures is generated as the firms who provided the direct inputs purchase inputs for their increased production from a second set of sectors. The second set of sectors must increase production and purchase inputs from a third set of sectors which must increase production and purchase from a fourth set of sectors. The expenditures continue as links in the chain through the fifth, sixth, and further sets of sectors until the total input requirements for the regional economy have been provided.¹² The indirect effect measures the size and length of this chain in total dollars of expenditures generated per dollar of sales to final demand by the sector being analyzed.

The indirect effect ranges from \$.0092 for sector 57 (Motor Vehicles and Parts) to \$.3826 for Sector 5 (Feedlot Livestock Production). That is, the chain of expenditures generated among the 108 sectors of the regional economy is the least for the Motor Vehicles and Parts sector and the most for the Feedlot Livestock Production sector, relative to the expenditure chains generated by the other sectors of the model and per each dollar of sales to final demand. The substantial difference in the indirect effect for these two sectors is because purchases within the region account for a high percent of total purchases of the Feedlot Livestock sector while regional purchases account

¹²Any given sector of the 108 in the model could be involved in any number of these sets of sectors. The number of sets in which a sector is involved is determined by its interdependence with other sectors of the model. For example, assume that the Federal Government increases its purchases of aircraft from sector 55 by \$10,000. Sector 55 will then increase its purchases of inputs from a set of seventy-eight sectors by \$1,100 (.1100 X \$10,000). This set of seventy-eight sectors must increase production to meet the increase in demand for their output. One of the seventy-eight sectors is the Electric Service sector, which must increase its output by \$14.50 (.00145 X \$10,000). The Electric Service sector increases its purchases of inputs from a set of fifty-two sectors by \$3.44 (.2370 X \$14.50). The increase in output of \$3.44 by this set of fifty-two sectors results in a demand for inputs from an additional set of sectors. This chain of expenditures continues through additional sets of sectors until the total requirements have been provided for the regional economy to produce \$10,000 of aircraft.

Table 8. Direct, indirect, and induced effects -- North Central Region; Texas 1967

Sector Number	(1) Direct (plus dollar sale to final demand) ^a	(2) Indirect ^b	(3) Induced ^c	(4) Total Direct, Indirect and Induced Effect on Interindustry Output ^d	(5) Total Direct, Indirect, and Induced Effect on Household Income ^e
1	1.4562	.1354	.4120	2.0036	.6772
2	1.4073	.0941	.3078	1.8092	.6703
3	1.2379	.0495	.5960	1.8834	.9796
4	1.4139	.1204	.3933	1.9276	.6463
5	1.7818	.3826	.3026	2.4670	.4973
6	1.5532	.1862	.3153	2.0547	.5182
7	1.7827	.2853	.2653	2.3333	.4359
8	1.1462	.0315	.5088	1.6865	.8363
9	1.4703	.1566	.3484	1.9753	.5726
10	1.1274	.0175	.2489	1.3938	.4090
11	1.0608	.0112	.3195	1.3915	.5249
12	1.2195	.0380	.2297	1.4872	.3776
13	1.2270	.0400	.2260	1.4930	.3716
14	1.3184	.0521	.2266	1.5971	.3725
15	1.1924	.0415	.2018	1.4357	.3318
16	1.3202	.0546	.2762	1.6510	.4540
17	1.2851	.1779	.1717	1.6347	.2823
18	1.5177	.3342	.2709	2.1228	.4452
19	1.2496	.1055	.1599	1.5150	.2627
20	1.3332	.1070	.3057	1.7459	.5025
21	1.2853	.0759	.1987	1.5599	.3266
22	1.0792	.0174	.2550	1.3516	.4191
23	1.1326	.0222	.2917	1.4465	.4794
24	1.1136	.0268	.2983	1.4387	.4903
25	1.1494	.0265	.2737	1.4496	.4499
26	1.1226	.0287	.2193	1.3706	.3606
27	1.0819	.0169	.2135	1.3123	.3517
28	1.1510	.0337	.3499	1.5346	.5750
29	1.1853	.0416	.3415	1.5684	.5612
30	1.0974	.0168	.1648	1.2790	.2710
31	1.1433	.0304	.1713	1.3450	.2814
32	1.1374	.0131	.1763	1.3450	.2899
33	1.1728	.0375	.2943	1.5046	.4837
34	1.0972	.0201	.2258	1.3431	.3711
35	1.0655	.0142	.3250	1.4047	.5341
36	1.2027	.0485	.3011	1.5523	.4949
37	1.1134	.0271	.2060	1.3465	.3384
38	1.0783	.0142	.2422	1.3347	.3979
39	1.0850	.0193	.2364	1.3407	.3887
40	1.0776	.0140	.2641	1.3557	.4341
41	1.1518	.0321	.2653	1.4492	.4360

(continued)

Table 8. continued

Sector Number	(1)	(2)	(3)	(4)	(5)
42	1.1682	.0318	.1532	1.3532	.2518
43	1.1174	.0230	.1602	1.3006	.2633
44	1.1284	.0257	.3638	1.5179	.5979
45	1.1494	.0280	.2682	1.4456	.4409
46	1.1494	.0299	.2653	1.4446	.4360
47	1.0646	.0137	.2564	1.3347	.4214
48	1.0981	.0226	.4478	1.5685	.7362
49	1.1144	.0221	.3139	1.4504	.5160
50	1.1341	.0272	.2680	1.4293	.4406
51	1.1274	.0231	.3411	1.4916	.5607
52	1.2726	.0457	.3874	1.7057	.6366
53	1.0976	.0211	.3344	1.4531	.5496
54	1.4575	.0697	.2992	1.8264	.4916
55	1.1100	.0159	.2579	1.3838	.4237
56	1.0681	.0134	.1937	1.2752	.3184
57	1.0408	.0092	.0890	1.1390	.1463
58	1.3014	.0464	.3324	1.6802	.5463
59	1.0737	.0147	.2278	1.3162	.3743
60	1.1409	.0317	.3193	1.4919	.5249
61	1.2144	.0632	.3916	1.6692	.6435
62	1.1714	.0344	.4252	1.6310	.6989
63	1.2687	.0643	.3998	1.7328	.6571
64	1.1670	.0347	.5446	1.7463	.8952
65	1.2219	.0531	.2331	1.5081	.3831
66	1.2196	.0429	.6337	1.8962	1.0415
67	1.3742	.1136	.4952	1.9830	.8139
68	1.0775	.0191	.4695	1.5661	.7717
69	1.1621	.0373	.4012	1.6006	.6593
70	1.2318	.0391	.2655	1.5364	.4364
71	1.2370	.0580	.2415	1.5365	.3970
72	1.2812	.0843	.4421	1.8076	.7268
73	1.1454	.0318	.4046	1.5818	.6651
74	1.1000	.0196	.4782	1.5978	.7859
75	1.2968	.0655	.3534	1.7157	.5810
76	1.0938	.0236	.3977	1.5151	.6536
77	1.1547	.0393	.1772	1.3712	.2912
78	1.1034	.0249	.4219	1.5502	.6934
79	1.1122	.0240	.5484	1.6846	.9013
80	1.1784	.0435	.4983	1.7202	.8189
81	1.1737	.0404	.4077	1.6218	.6700
82	1.1584	.0379	.5557	1.7520	.9136
83	1.1962	.0595	.5357	1.7914	.8805
84	1.1823	.0462	.6195	1.8480	1.0181
85	1.2761	.0752	.4578	1.8091	.7524
86	1.3039	.1285	.3669	1.7993	.6029
87	1.2120	.0602	.4826	1.7548	.7933
88	1.1658	.0330	.3276	1.5264	.5385

(continued)

Table 8. continued

Sector Number	(1)	(2)	(3)	(4)	(5)
89	1.1255	.0345	.2538	1.4138	.4171
90	1.4161	.0937	.3048	1.8146	.5009
91	1.0767	.0266	.7084	1.8117	1.1642
92	1.3934	.1119	.4210	1.9263	.6919
93	1.1506	.0332	.4451	1.6289	.7316
94	1.2314	.0534	.4012	1.7460	.7581
95	1.1751	.0462	.4694	1.6907	.7714
96	1.1026	.0221	.2805	1.4052	.4610
97	1.2103	.0497	.2601	1.5201	.4273
98	1.1556	.0395	.4449	1.6400	.7312
99	1.1378	.0250	.5035	1.6663	.8274
100	1.1377	.0245	.5721	1.7343	.9402
101	1.1039	.0266	.5854	1.7159	.9622
102	1.1258	.0480	.6665	1.8403	1.0953
103	1.2454	.0682	.6480	1.9616	1.0649
104	1.0176	.0042	.5900	1.6118	.9696
105	1.1649	.0432	.6834	1.8915	1.1232
106	1.0931	.0226	.5166	1.6323	.8492
107	1.1371	.0338	.6708	1.8417	1.1025
108	1.1400	.0318	.5102	1.6820	.8386

^aColumn total of Table 5 + the one dollar change in final demand.

^bColumn total of Table 6 - column total of Table 5.

^cColumn total of Table 7 - entry for households in Table 7 (or the value in column 5 of this table) - direct effect (entry in column 1 of this table) - indirect effect (entry in column 2 of this table).

^dDirect effect (entry in column 1) + indirect effect (entry in column 2) + induced effect (entry in column 3).

^eEntries for Households row of Table 7.

for a relatively small percent of the total purchases of the Motor and Vehicles Parts sector which is largely involved in the assembly of vehicle parts produced outside the region.

The induced effect refers to the impact of increased consumer spending upon the output of processing sectors in response to a change in final demand for a given sector. As a sector produces a dollar of output, inputs are purchased from households in the region, primarily labor for which wages are paid. In addition, the dollar of output by a sector generates the chain of expenditures identified as the indirect effect and at each link in the chain the sectors included in the link purchase inputs from regional households. Thus, there is a stream of expenditures for the inputs of households which is the income of households generated by the additional dollar of output. This income is spent by households in a manner approximated by the household column of the model. The induced effect measures the impact of these additional consumption expenditures. The process of developing the total induced effect proceeds as follows:

- (a) there is additional output of regional industries to provide the additional goods and services consumed.
- (b) there are additional direct and indirect effects on the economy as a result of (a).
- (c) there is additional household income generated through (b).
- (d) there are increases in consumption expenditures due to (c).

Thus, a stream of expenditures is generated, looping from (d) back to (a) continually but in smaller and smaller amounts until the stream is depleted. The induced effect is derived for each processing sector by subtracting three values from the column total of given sector in Table 7 -- the value of the entry for Households in the column of the relevant processing sector, the direct effect, and the indirect effect.

Relative to other sectors of the model, the stream of expenditures that was generated through increased consumer spending that resulted from an increase in sales to final demand of one dollar is the smallest for the Motor Vehicles and Parts sector (\$.0890) and largest for the Legal Services sector (\$.7084). The small induced effect of the Motor Vehicles and Parts sector results from regional automobile assembly plants importing a large amount of the components of the finished product from outside the region, adding a relatively small part of the total value of a car in North Central Texas. The large induced effect of the Legal Services sector is typical of service sectors which generate relatively large amounts of household income per dollar of output. (Note that the induced effect is measured per dollar of sales to final demand and does not measure the total absolute dollar impact of a sector of the regional economy.)

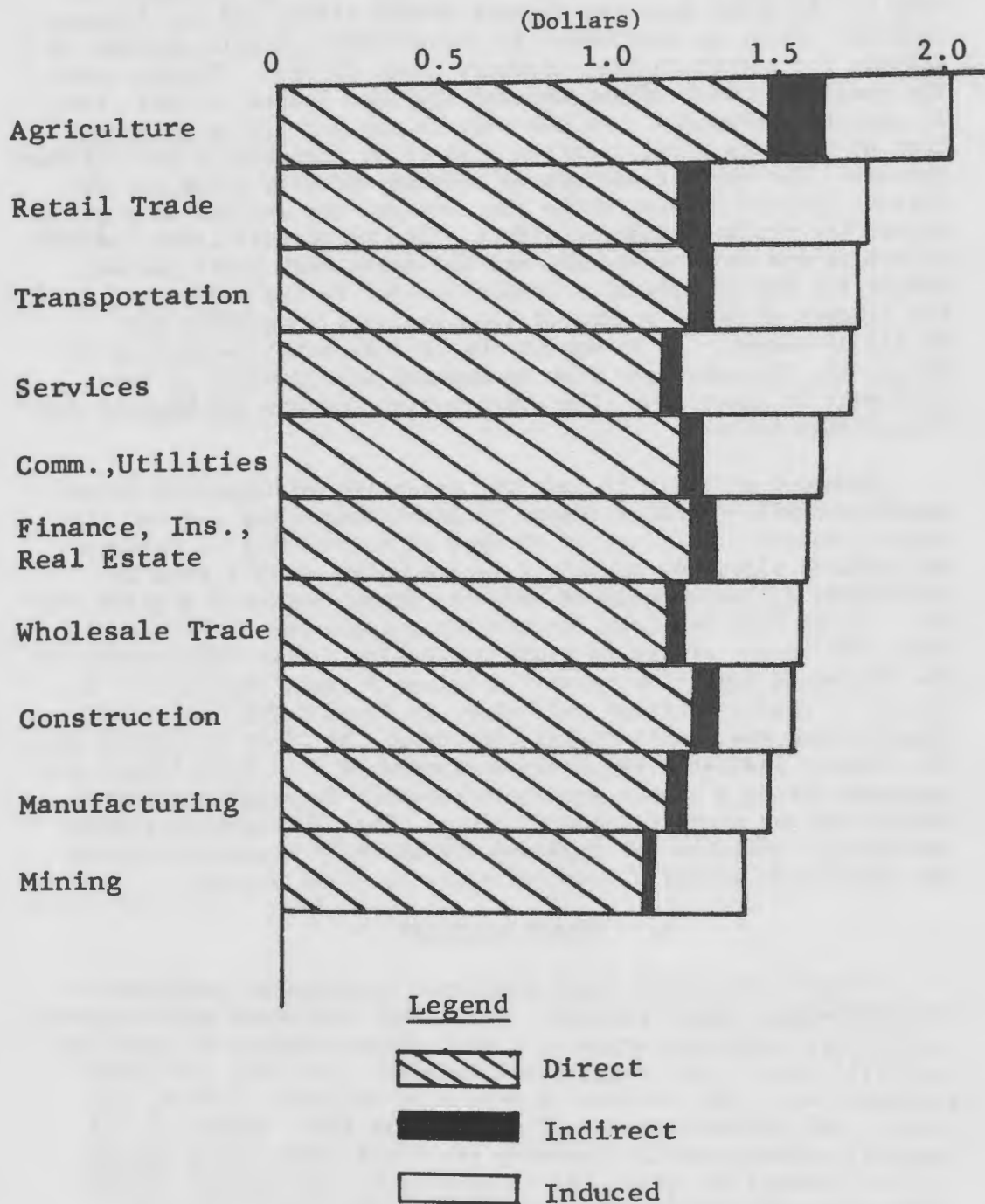
The combined direct, indirect, and induced effect on the output of interindustry sectors, as shown in column 5 of Table 8, range from \$1.1390 including the dollar change in final demand for Sector 57 (Motor Vehicles and Parts) to \$2.4670 for sector 5 (Feedlot Livestock Production). The combined effects by major industrial category are shown in Figure 13. The agricultural sectors of the model show the largest direct effect and the largest indirect effect on interindustry output when a simple average of effects for sector in that industry group is used. Mining shows the smallest direct effect and the smallest induced effect. But, it must be emphasized that the effects are per dollar of output; they do not relate the relative size of an industry in the regional economy. The service sectors as a broad industry group had the largest induced effect, while the construction sectors as a group showed the smallest induced effect. The relatively large induced effect of the service sectors and the relatively small induced effect for the construction sectors is due to the difference in the percent of total purchases from regional households per dollar of output. As shown for the 10 industrial categories in Figure 11, the purchases from households as a percent of total purchases is lowest for the construction sectors and highest for the service sectors.

Column 5 of Table 8 shows the expansion in household income associated with a dollar change in final demand for a given processing sector. This may be thought of as the direct, indirect, and induced effect on household income which results from an additional dollar's worth of sales to final demand by a given sector. It is obtained from Table 8 for a given sector in the cell where the column of the relevant processing sector intersects with the Household row. The values in column 5 range from \$.1463 for Sector 57 (Motor Vehicles and Parts) to \$1.1232 for Sector 105 (Engineering and Architectural Services). As shown by Figure 14, the direct, indirect, and induced effects on household income are greatest (using a simple average of sectors in broad industrial group) for the service industry group. The construction sectors as a group reflected the smallest expansion in household income per additional dollar's worth of sales to final demand.

B. IMPACT ANALYSIS

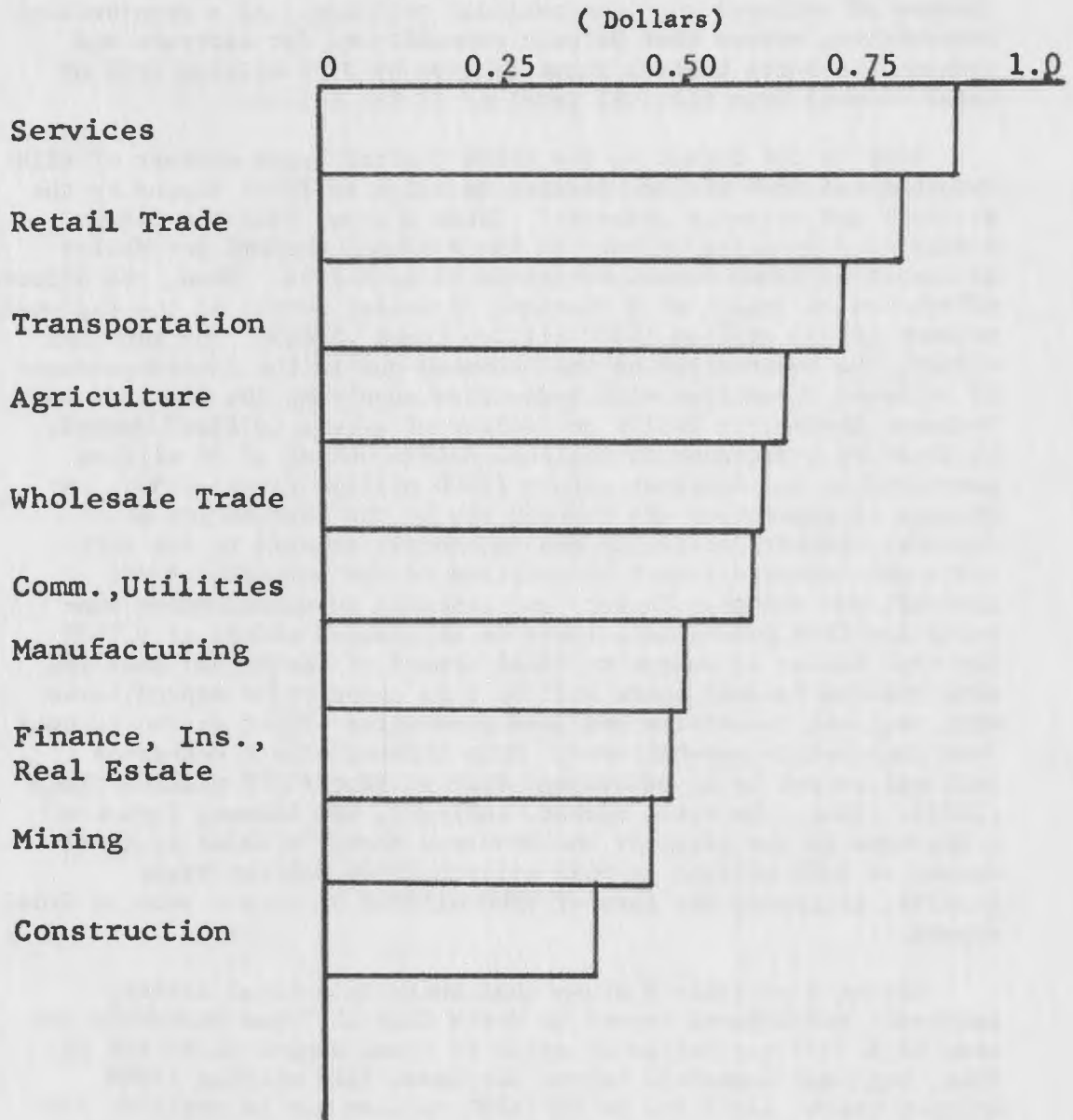
A major use of the tools developed in previous sections is in undertaking impact studies. Government officials and business leaders are often concerned with what effect changes in final demand will have on the total local economy. Analysts are often perplexed with the problems of measuring the total direct, indirect, and induced effects of a change in final demand on the regional economy and of measuring the total effect of a change in final demand on particular industries in the region. Input-output analysis provides a means of measuring these impacts. This section will illustrate the use of the North Central Texas Input-Output model by showing the impact on the regional economy due to a hypothetical change in final demand for an industry. Next, the impact analysis on the regional economy with changes

Figure 13. Direct, indirect, and induced effects on interindustry output by major industrial group -- North Central Region; Texas 1967



Note: The effects shown by broad industrial group is the simple average of sectors in that industry group.

Figure 14. Direct, indirect, and induced effects on household income by major industrial group -- North Central Region; Texas 1967



Note: The effects shown by broad industrial group is the simple average of sectors in that industry group.

in final demand for all sectors will be briefly discussed as an application of the model to regional economic forecasting.

The most important sector of the North Central Texas economy in terms of total output is Aircraft and Ordnance (Sector 55). Nearly all of this sector's output is sold to Federal Government-Defense (a final demand sector) and is subject to the changes of national and international politics. As a hypothetical proposition, assume that defense expenditures for aircraft and ordnance in North Central Texas decline by \$500 million (21% of total output) from the 1967 level of \$2.394 billion.

What is the impact on the North Central Texas economy of this hypothetical \$500 million decline in sales to final demand by the aircraft and ordnance industry? Table 8 shows that the direct effect on processing sectors of the regional economy per dollar of output to final demand by sector 55 is \$.1100. Thus, the direct effect has an impact of a decrease in dollar output in the regional economy of \$55 million (\$500 million times .1100). The indirect effect, the contraction of the economy due to the interdependence of regional industries with industries supplying the Aircraft and Ordnance Sector, is \$.0159 per dollar of output to final demand, so there is a decrease in regional dollar output of \$8 million generated by the indirect effect (\$500 million times .0159). As incomes of households are reduced due to the contraction of regional industry (directly and indirectly related to the Aircraft and Ordnance Sector in addition to the payrolls of the Aircraft and Ordnance Sector) and assuming no unemployment compensation from government, there is an induced effect of \$.2579 for each dollar of output to final demand of Sector 55; that is, with reduced incomes there will be less consumption expenditures with regional industries and less generative effect on the economy from consumption expenditures. This induced effect decreases regional output by an additional \$129 million (\$500 million times .2579). Thus, the total direct, indirect, and induced impact of a decrease in the Aircraft and Ordnance Sector's sales to final demand of \$500 million is \$692 million (\$500 million times 1.3838), including the loss of \$500 million of output sold to final demand.

Column 5 of Table 8 shows that there is a total direct, indirect, and induced impact on North Central Texas household income of \$.4237 per dollar of sales to final demand of Sector 55. Thus, regional household income decreases \$212 million (\$500 million times .4237) due to the \$500 million cut in regional aircraft and ordnance production for the Federal Government-Defense.

Public and private planners will also be interested in the impact of smaller defense expenditures on individual industries in the region. The coefficients in column 55 of Table 7 show the total direct, indirect, and induced effect on the industry on the left side of the table of a dollar of sales to final demand by Sector 55. For example, the \$500 million reduction in sales to final demand by Sector 55 results in a total dollar impact on

output of the Electric Service Industry (Sector 71) of \$5.5 million (\$500 million times .0110), on the Air Transportation Industry (Sector 64) of \$700,000 (\$500 million times .0014), on the Fabricated Metal Products Industry (Sector 42) of \$300,000 (\$500 million times .0006), and on the Meat Products Industry (Sector 17) of \$2.95 million (\$500 million times .0059). The same calculation can be made for each of the 108 processing sectors in the model.

This same methodology could be utilized to analyze the impact of sales to capital formation by the construction industry due to the building of the regional airport, to analyze the impact of additional exports by an expanded feedlot livestock industry, etc. In regard to the regional airport currently being constructed in North Central Texas, the impact of increased sales of sector 15 (Facility Construction) due to construction of the airport can be estimated. While it is beyond the scope of this report to analyze the full impact of the airport, the direct, indirect, and induced effects per dollar of facility construction at the airport can be estimated. The direct effect (column 1 of Table 8) on processing sectors of the regional economy per dollar of airport facility construction is an estimated \$.1924. This is the expansion in required inputs from the direct suppliers of the Facility Construction sector. The indirect effect, the expansion of the regional economy due to the interdependence of regional industries with industries supplying the Facility Construction sector, is \$.0415 per dollar of facility construction on the regional airport. As incomes of household are increased due to the expansion of regional industry both directly and indirectly related to the Facility Construction sector, there is an estimated induced effect of \$.2018 for each dollar of facility construction at the regional airport. The combined direct, indirect, and induced impact (column 4 of Table 8) of a one dollar increase in facility construction is \$1.4357. Column 5 of Table 8 shows that there is a total direct, indirect, and induced impact on regional household income of \$.3318 per dollar of facility construction.

The coefficients in column 15 of Table 7 show the total direct, indirect, and induced effect on the industry on the left side of the table of a dollar sales to final demand (such as airport facility construction) by Sector 15. For example, an additional dollar's worth of airport facility construction results in a total dollar impact on output of the Glass, Stone, Clay, and Concrete Products sector (Sector 36) of \$.1197.

A projection of North Central Texas output by industry would involve expanding the impact analysis by forecasting sales to final demand for the later period by each processing sector of the model. The vector of forecasted final demands would be multiplied by the matrix in Table 7 to find the total output required from each sector to meet the forecasted final demand. Such a projection, using an input-output table, makes the projection of output for an industry consistent not only with its final demands

but also with the demands for its outputs from other industries in the region.

The calculations involved in a projection can be handled quickly by computer. Once the input-output model and the program for multiplying the vector of final demands by the total requirements matrix have been computerized, several projections for a given year can be generated using different assumptions for final demand (e.g., different assumptions for defense spending in the region).¹³

¹³ Using Table 7 for the projection assumes that regional household consumption patterns remain constant. If this assumption is relaxed, Table 6 can be used to make the projection. Changing household consumption patterns would be forecast as part of final demand.

V. SUMMARY

The primary objective of this study was to estimate the structural interrelationships of the North Central Texas regional economy in 1967. The North Central Texas Region is a thirty-one county area with a 1970 population of 3,064,560. During the past forty years the region has experienced a substantial decline in the percent of employment in agriculture while the percent of employment in manufacturing, finance, insurance, and real estate increased. Employment in the aircraft, ordnance, and electronic equipment industries (defense oriented industries) was estimated to be 93,406 in 1967, or approximately 10% percent of estimated total employment for the 108 industrial sectors of the regional model.

Numerous interrelationships exist among the many economic units of North Central Texas. The underlying structure of the North Central Texas economy is composed of these economic interrelationships. Each economic unit is dependent on others so that changes in the activities of one unit tend to have repercussions throughout the region. The most comprehensive method of obtaining quantitative estimates of the economic interdependencies in a regional economy is input-output analysis. Input-output analysis provides quantitative data on the production and distribution structure of individual economic sectors and the interrelationships among them.

The regional input-output model consists of three tables -- transactions table, input coefficients table, and interdependence coefficients table. The transactions table estimated monetary values of transactions among 108 processing sectors for 1967. Sales to final demand, including local household consumption, capital formation, government expenditures, and exports, were also estimated for each processing sector. Purchases in excess of local interindustry transactions were allocated to final payments sectors of the model which included local household payments, gross savings, government taxes, and imports.

The regional transactions table was computed from data obtained from primary and secondary sources. Gross output values were derived from secondary sources for nearly all sectors of the model. Coefficients used to allocate these border totals down a column or across a row of the transactions table were largely derived from primary data. The transactions table shows the distribution of sales to other sectors by reading across the row of a given sector, and the sources of inputs by reading down the column of a given sector.

An analysis of the gross output values for the processing sectors of the regional transactions table indicates the relative importance of sectors in terms of dollar volume of activity. Gross output values ranged from \$18.4 million for the Oil and Gas Field Services sector to \$2.394 billion for the Aircraft, Aircraft Engines, and Ordnance sector. The latter sector is by

far the largest in the region and accounts for over 12 percent of the total output of all processing sectors of the model and nearly 29 percent of manufacturing output. Other major sectors, in order of importance (dollar output) were: Insurance Carriers, Motor Vehicles and Parts, General Wholesale, and Electronic Communication Equipment. The gross output values for sectors of the 31-county region clearly reflect the dominance of the Dallas - Fort Worth economy within the region which specializes in the production of defense goods, the provision of wholesale distribution services, and the provision of financial services.

The degree of interdependence among processing sectors is measured by the relative magnitude of transactions in the processing quadrant (Quadrant I) of the transactions table. If final demand increases by a given amount for the output of a sector for which regional interindustry transactions are a high percent of its gross output, the impact on the regional economy will be much greater than for an equal increase in demand for the output of a sector for which interindustry transactions make up a small percent of its gross output. Two industrial categories, agriculture and utilities and communications, reflected a high degree of interdependence on their output side by selling approximately 50 percent of the output to regional processing sectors. Agricultural and food processing sectors showed a high degree of interdependence on their input side by purchasing a high percentage of their inputs from regional processing sectors.

Sales (purchases) as a percent of a sector's total output going to (coming from) regional processing sectors is an indicator of relative interdependence of a regional processing sector. Due to differences in the gross outputs of sectors, the absolute interdependence of regional processing sectors may follow a different pattern. For example, the Aircraft, Aircraft Engines, and Ordnance sector ranks only twenty-fifth from the bottom in the percent of total gross outlay purchased from regional processing sectors but ranks first in the absolute dollar amount of goods and services purchased from regional processing sectors.

Many of the goods and services produced by the regional economy are exported and certain goods and services must also be imported to meet the demands of the regional populations, as well as the needs of regional industries. Total exports of the interindustry sectors of the model accounted for 35 percent of total interindustry output, not including sales to state and federal government outside the region. Imports accounted for approximately 32 percent of total gross outlay for the interindustry sectors of the model. The largest exporters were the mining, wholesale trade, and transportation sectors. Largest importers were manufacturing and construction.

The processing quadrant of the transactions table was used to develop the input coefficients table or the direct requirements matrix. Each entry in this matrix is an input coefficient

showing how much a given industry must purchase from another industry in order to produce one dollar's worth of output. The coefficients represent the direct effect of changes in the volume of output of a particular sector upon the other processing sectors of the economy.

Due to the direct effect of additional output for a given industry, other processing sectors must supply additional inputs. To supply these additional inputs to the sector experiencing an increase in final demand, the other sectors must expand their output. Therefore, they must purchase more of the output of other sectors, and so on. This indirect expansion as a result of a change in final demand for a given sector is termed the indirect effect. The combined direct and indirect effect is measured by the interdependence coefficients table or the total requirements matrix which is computed from the direct requirements matrix. Each entry in the total requirements matrix is an interdependence coefficient which shows the total expansion in output (resulting from the direct and indirect effects) for the row sector as the result of a one dollar expansion in final demand for the column sector. For sectors of the regional economy, the combined direct and indirect effect ranges from \$1.0218 for Other Educational Services to \$2.1644 for Feedlot Livestock.

The induced effect is found by including the household sector in the processing quadrant of the transactions table and computing a new total requirements table. The induced effect is the impact of local consumption expenditures on sectoral output. Expansions in output by processing sectors increase payments to local households, and these in turn, generate more demand for additional processed goods and services and so on. The stream of expenditures that is generated through consumer spending that results from an increase in sales to final demand of one dollar ranged from \$.0890 for the Motor Vehicles and Parts sector to \$.7084 for the Legal services sector. It must be remembered, however, that the induced effect is measured per-dollar of sales to final demand and does not measure the total absolute dollar impact of a sector of the regional economy.

The combined direct, indirect, and induced effects on interindustry output can be estimated for a dollar change in final demand for a given processing sector. These combined effects in the regional model ranged from \$1.1390 (including the dollar change in final demand) for the Motor Vehicles and Parts sector to \$2.4670 for the Feedlot Livestock Production sector.

The same combined effects on household income can be determined for a dollar change in final demand for a given sector. The combined direct, indirect, and induced effect on regional household income is largest for the service industry group of sectors and smallest for the construction sectors. This difference is because purchases from households as a percent of total purchases is lowest for the construction sectors and highest for

the service sectors, relative to other major industrial categories.

The model also permits estimation of the economic impact upon the regional economy given a change in final demand for a particular sector. One can determine the impact of such a change upon the output of each processing sector as well as the direct, indirect, and induced effect on all processing sectors. The use of the model in estimating these effects was demonstrated in this report by showing the impact upon the regional economy of a hypothetical reduction in defense expenditures.

An input-output model is a useful tool for making forecasts of the regional economy. By independently forecasting final demand for all sectors of the model, it is possible to provide forecasts of the output levels of each processing sector at a future point in time.

Private and public sectors of the regional economy should find this report to be a valuable tool in planning and policy-making studies where interdependence of activities in the economy is important to the analysis. However, those using the model presented in this report should be aware of its limitations. Certainly the model is an estimation of structural relationships in the regional economy. The estimations were based upon sample data and some judgements were made in classifying the data.

The major limitations of the model result from the underlying assumptions of input-output analysis. The major assumption is that resources are combined in fixed proportions in the production process. Over time, it is likely that changes in the prices of resources and changes in technology will alter the proportions of resources used in the production process, and this will alter the input coefficients. To the extent that this occurs the model is rendered less accurate by the passage of time. Though it can be argued that these changes are not substantial for most firms within an industry over a period of a few years, an input-output model obviously must be up-dated from time to time if it is to accurately depict current interdependencies.

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APPENDIX A: ESTIMATING PROCEDURES FOR BORDER TOTALS AND INPUT COEFFICIENTS BY SECTOR

The discussion of estimating procedures used in developing the North Central Texas Input-Output Model involves three important elements: (1) the definition of total output for a sector, (2) the method of estimating this total output (border total) for a sector, (3) and the method of estimating the input coefficients used to allocate border totals. Since definitions and methods involved are often very similar for several sectors in the same broad industrial category, the discussion is presented by major industry category -- Agriculture and Agricultural Services; Mining; Construction; Manufacturing; Transportation; Utilities and Communications; Wholesale and Retail Trade; Finance, Insurance, and Real Estate; and Services. Final demand and final payments sectors are also discussed.

Eight universities were involved in developing the nine regional models. In some cases, division of effort was accomplished by having the staff in a particular region assume responsibility for special projects involving particular sectors. For example, the North Central Texas Region staff assumed special responsibility for developing border totals and input coefficients for the utility sectors (Electric and Gas Utilities) for all regions, and the state, while the input-output staff in the Houston region assumed similar responsibility for the wholesale and retail trade sectors. The state input-output staff, operating in the Division of Planning Coordination of the Governor's Office, had responsibility for the development of information for all regions for several sectors of the model. In the following discussion, reference will often be made to the special project reports for the various sectors, rather than repeating the detail of these special projects.

Agriculture and Agricultural Services

The first seven sectors of the model include farm and ranch production. Border totals and allocating coefficients for these sectors were developed for all regions by Richard J. Foote and Texas A & M University personnel.¹⁴ Basically, outputs of these sectors are defined in terms of total value of sales at the point of transfer of ownership by farmers. Input coefficients were developed from published studies of agricultural crop and livestock costs and returns in recent years in Texas.

¹⁴See State Input-Output report (and all supplements to) entitled "Farm Sectors: Value of Production for Crops and Value of Marketings plus Home Use for Poultry and Livestock Plus Government Payments by Regions," based on data compiled under the supervision of Richard J. Foote, consultant, Slaton, Texas; Lonnie L. Jones, Department of Agricultural Economics and Sociology, Texas A & M University; and Raymond L. Prewitt, Agricultural Extension Service, Texas A & M University under contracts with the Division of Planning Coordination, Governor's Office, State of Texas, March 24, 1970, Lubbock, Texas.

The remaining two sectors of this broad economic category involve agricultural supply and services. Border totals and input coefficients for both sectors were developed for all regions by the state input-output project staff. Sector 8, Agriculture Supply except Farm Machinery, is a retail sector and is defined on a margin's basis, which means that the value of the output of this sector is total sales minus the value of goods purchased for resale. The output of Sector 9, Agriculture Services is measured in terms of the full value of services performed by cotton ginners, veterinarians, etc.

Mining

Since an establishment approach was used in developing the model, it was necessary to classify certain types of mining and quarrying within the manufacturing sectors of the model. For example, stone, sand, and gravel mining operations are usually a part of the overall operations of establishments that use these raw materials in their production process. Thus, in classifying establishments within the sectoral arrangements of this model on the basis of principal products, such mining and quarrying operations generally became a part of manufacturing sector number 36 (Glass, Stone, Clay, and Concrete Products).

Two mining sectors, however, could be separated and border totals and input coefficients for both were developed by the Hardin-Simmons University input-output project staff.¹⁵ The border total for sector 10, Crude Petroleum and Natural Gas, is the value at the well of crude petroleum and natural gas production plus the value of natural gas liquids. The output of sector 11, Oil and Gas Field Services, is primarily the value of services performed by firms engaged in oil and gas well drilling and field exploration.

Regional input and output allocating coefficients were developed by the Hardin-Simmons University project staff from interview data collected by the staff at the University of Texas at Arlington. The Hardin-Simmons University project staff was responsible for questionnaire design and sample determination. Data were collected from four representative establishments for each mining sector.

Construction

The construction sectors were developed on a functional basis rather than an establishment basis. Development of construction border totals and input coefficients for all input-output regions was done by the input-output project staff at the University of

¹⁵See James R. Vinson, "Texas Input-Output Study Special Mining Industry Report," Bureau of Economic and Business Research, Hardin-Simmons University, Abilene, Texas, August 1, 1971.

Texas at El Paso.¹⁶ The output of the first four construction sectors (sectors 12-15) includes the value of new construction put-in-place in the region in 1967, plus the value of additions and alterations when they constitute a significant addition, or change, in an existing structure. The value of construction put-in-place during a given time period for an individual project includes "...the cost of material actually incorporated into the structure, regardless of when the materials were purchased as delivered to the site, the cost of labor actually performed, and a proportional share of the cost of construction equipment used, the contractors profits and construction operations, the project owners' overhead costs, as related to the construction project, the cost of architectural and engineering work and other miscellaneous costs chargeable to the project on the owner's book."¹⁷ The value of construction put-in-place does not include land costs and sales costs. Land costs represent a transfer of assets and are not included in the input-output model. Sales costs are included in the output of sector 90 (Finance, Insurance and Real Estate, NEC.).

Output of the Maintenance and Repair sector (sector 16) is defined as:"...the upkeep and restoration of existing buildings or other structures."¹⁸

The output of the special trades (plumbing, heating, painting, roofing, masonry, etc.) was allocated to each type of construction. Thus, the total value of a building included in the border total of the Industrial Construction sector, for example, includes the output of Special trade contractors. The proportion of the output of the special trades that applied to upkeep and restoration of existing buildings and other structures was allocated to the Maintenance and Repair sector. Therefore, the Maintenance and Repair sector will not reflect sales to other construction sectors, except for the value of maintenance and repair purchases by construction sectors for work on their own facilities (e.g. office building).

Questionnaire design and sample determination for the construction sectors were developed by the State Director's Office and the University of Texas at El Paso project staff. Field interviewing for the North Central Texas Region was done by the staff at the University of Texas at Arlington. A total of fifteen construction firms were interviewed in the region.

Manufacturing

¹⁶See Edward Y. George, "Technical Working Paper: Construction Industry," Bureau of Business and Economic Research, University of Texas at El Paso, El Paso, Texas, September 30, 1970.

¹⁷Ibid., p. 2

¹⁸Ibid., p. 1.

There are 43 manufacturing sectors in the regional model. The output of each manufacturing sector is measured as the value of shipments (f.o.b. the shipper) in 1967. Data for development of the manufacturing border totals were obtained from the 1967 Census of Manufacturers with tabulations being completed by the state input-output project staff.¹⁹ The border total for each manufacturing sector was adjusted by the amount of inventory change per a dollar value of sales in order to measure the output of manufacturing sectors in 1967. Net inventory depletion for a sector required the reduction of its border total, since that sector would have sold some goods in 1967 that were produced in previous years and the current account inputs would not include the cost of production. A net increase in inventory required that the border total be increased because output in 1967 was greater than sales and the concomitant inputs of the sector supported the outputs added to inventory. The amount of inventory change for each sector was estimated from sample data.

A large amount of field interviewing was done by the regional staff to obtain primary data for use in developing the sample input coefficients to be used in allocating the manufacturing border totals. The questionnaire used in interviewing manufacturing firms was developed jointly by the regional project directors and the state project staff. Stratified sampling was used by the state staff to select the sample firms for each sector. Firms within each sector were stratified by employment size as follows: small establishments (1-19 employees), medium establishments (20-249 employees), and large establishments (250 and over employees).

A total of 244 manufacturing firms were interviewed in the North Central Texas Region. Sample input coefficients were estimated from these data but it was necessary to adjust the coefficients for some sectors in which the sample size was very small and/or the questionnaires were incomplete. National input-output and state average coefficients, secondary data sources, and discussion with knowledgeable industry personnel provided the basis for adjustment of the coefficients for such sectors.

Transportation

The model contained seven transportation sectors (sectors 61-67). Border totals and allocating coefficients were developed by the state project staff.²⁰

¹⁹See Herbert Grubb and Anita Rau, "Value of Shipments by Region for Manufacturing Sectors, 1967," (with explanatory notes) Office of the Governor, Division of Planning Coordination, April 13, 1971.

²⁰See Jack W. Huffman, "State Input-Output Project: Transportation," Office of the Governor, Division of Planning Coordination, August 13, 1971.

The gross output of sector 61 (Railroads) was defined as the sum of income of railroad companies. Data were obtained from the Texas Railroad Commission and the Interstate Commerce Commission. Total interstate revenue was "...allocated to imports or exports by means of a one percent sample of terminations conducted by the Interstate Commerce Commission which shows the state-to-state distribution for carloads and tons of revenue freight originated and terminated by states and by commodity class.²¹ Input coefficients were developed from total operating expenses for Texas railroad operations as reported in the annual statements of railroad companies to the Railroad Commission with some adjustments based upon national coefficients.

Sector 61 (Railroads) exports part of its sales to customers outside of North Central Texas. For example, if a firm in Houston purchased an input from a firm in Chicago and the item was shipped by rail, the cost associated with shipping that item through the North Central Texas Region would be a part of the output of the Railroad Transportation sector of the regional model. Another example would be the firm in Houston buying from a firm in Dallas. The cost of shipping the item by rail from Dallas to the southern boundary of the region is included in the regional border total for sector 61.

Likewise, firms in the various processing sectors of the model can import transportation services. Thus, a firm in Dallas that purchased an input from a firm in Oklahoma City (and paid the transportation bill) would be importing those transportation services associated with moving the item from Oklahoma City to the northern regional border -- the Red River. The services involved in moving the material input from the northern boundary of the region to Dallas would be services provided within the region. The same reasoning follows the measurement of exports and imports for the other transportation sectors and will not be repeated.

The gross output of sector 62 (Intercity Highway Transportation -- not including motor freight transportation) was the..."sum of passenger revenue, U.S. Mail revenue, Freight and/or Express revenue, Newspaper revenue, Terminal Depot revenue, C.O.D. return fees, and all other revenue."²² Total operating expenses for sector 62 were obtained from the annual statement sent to the Railroad Commission and from mail surveys.

The gross output of sector 63 (Motor Freight Transportation) includes freight revenue, terminal revenue, and all other revenue. Intrastate operating expenses were obtained from both the annual statements of motor carriers sent to the Railroad Commission and from mail surveys conducted by the State Project Director's Office. Interstate expenses and revenues were obtained from the mail survey.

²¹Ibid., p. 2.

²²Ibid., p. 3.

The border total for the Air Transportation sector (64) was derived from several sources. A questionnaire was mailed by the State Project Director's Office to all certified route air carriers in Texas. The survey asked for the major revenue and expense items from each major city which a particular air carrier services. Non-certified carriers and airport terminal services were also surveyed by mail. The operations of airport terminals were derived from annual operating reports of the cities involved.

Output and input data for sector 65 (Pipeline Transportation) were derived from sample data by the state project staff. It should be noted that the border total of this sector does not include the movement of natural gas which is included in the border total of sector 70 (Gas Services).²³

Output and input data for sector 66 (Local and Suburban Transportation) and sector 67 (Warehousing and other Transportation Services) were developed from sample data.

Utilities and Communications

The gross output for sector 68 (Telephone and Telegraph) was the sum of revenues received from three income sources: government, business, and residential.²⁴ This output value for the telephone industry is comprised of "... gross billings for service furnished, including directory advertising, service provided to the telephone industry of other regions, and miscellaneous income such as income from investment, rents, and cafeteria operations."²⁵ Data comprising ninety percent of Texas telephone operations were obtained by direct interview of telephone companies operating in Texas. Total intra-Texas revenue was obtained from the State Comptroller's Office. Supporting totals were also obtained from the Federal Communication Commissions Statistics of Communication Carriers for 1967. Operating details used to derive input coefficients were obtained from direct interviews.

The border total and input coefficients for Sector 69 (T.V., Radio, and Other Communications) were also developed by the state

²³For further discussion see Walter E. Mullendore and Arthur L. Ekholm, "Electric and Gas Utilites, Procedures and Analyses of Inputs by Region, Texas Input-Output Project," University of Texas at Arlington, Arlington, Texas, March 30, 1971, p. 2.

²⁴See Herbert W. Grubb, Anthony Lusk, and David Moorman, "Texas Input-Output Project Procedures: Telephone Industry," Office of the Governor, Division of Planning Coordination, Revised March 22, 1971. This report also considers the problem of interregional toll charges and how exports for this sector were estimated.

²⁵Ibid., p. 3.

project staff.²⁶ Total output included all sources of income: advertising, talent, news service, sale of tapes and film, and transcripts. Estimates of the radio and television portion of the sector's border total for each region were obtained from Federal Communications Commission reports. That portion of the border total attributable to other communications (primarily cable television) was estimated ". . . by expanding the average value of total sales per establishment by the number of establishments in each region and the state."²⁷ The sample size was determined by the state project staff. Interviewing of regional establishments in sector 69 was conducted by the University of Texas at Arlington project staff. Six regional establishments were interviewed to provide data for the development of regional input coefficients by the state project staff.

The analytical procedures used in deriving border totals and input coefficients for the Electric and Gas Utilities (sectors 70 and 71) were developed jointly by the University of Texas at Arlington project staff and the state project staff.²⁸ Output in the Gas Service sector is defined as total revenue received for gas service establishments. Gas consumed internally by the gas establishment is included. The border total was largely developed by the state project staff using data obtained from the Gas Utilities Division of the Railroad Commission of Texas which receives individual gas utility annual reports. Gas transmission and distribution were combined due to the fact that the data are reported jointly. The method used in computing the border total for sector 70 reflects the following movement of natural gas: mining sells to natural gas utilities, and natural gas utilities sell to ultimate users and exports. Input coefficients were developed from a field survey of three regional establishments and data from the annual reports of gas utilities to the Texas Railroad Commission.

Gross output in the Electric Services sector (71) is defined as total revenue received for electric services excluding electricity sold for resale, plus other income of the electric service establishments. Electricity produced and consumed in the same plant is excluded from the gross output but its cost of production is included in the sector's total costs. This definition of output avoids double counting of the value of electric services. Only sales to ultimate consumers are counted; i.e. sales for resale are excluded. This concept eliminates the intraindustry transfers between regions. Electric services total revenues from sales to ultimate consumers were available for 1967 for the state but not by

²⁶See David Moorman and Herbert W. Grubb, "An Input-Output Analysis of Selected Communications Sectors in Texas," Office of the Governor, Division of Planning Coordination, April 1, 1971.

²⁷Ibid., p. 10.

²⁸See Walter E. Mullendore and Arthur L. Ekholm, "Electric and Gas Utilities, Procedures and Analyses of Inputs by Region, Texas Input-Output Project," University of Texas at Arlington, Arlington, Texas, March 30, 1971.

regions.²⁹ Sales by region were largely separated by electric utility questionnaire data. Three regional electrical establishments were interviewed to obtain data for the development of regional input coefficients. The sample data were supplemented by secondary data from the Federal Power Commission and the Rural Electrification Administration.

The border total and input coefficients for sector 72 (Water and Waste Water) were developed by the state project staff.³⁰ Output for this service was defined as the value of revenues collected by municipalities and private establishments. Both output and input coefficients were developed from a sample of municipalities in the region.

Wholesale and Retail Trade

The model contains six wholesale trade sectors (73-78) and nine retail trade sectors (79-87). Gross output for the trade sectors, except sector 86 -- Eating and Drink Places, is defined on a margins basis. The margin for a given trade sector is equal to total gross sales minus the cost of materials purchased for resale. Gross value of sales was estimated from the 1967 Wholesale Census of Business and the 1967 Retail Trade Census of Business by the state project staff.³¹ A margin (in percentage form) based upon survey data was applied to the gross sales value for each sector to obtain the estimate of each sector's total output (border total).

The output of the Eating and Drinking Places sector was calculated at full value of gross sales because of the amount of service involved in the sales of this sector. Sector 151 (Automotive Dealers and Repair Shops) is a "mixed" sector in that the automotive dealer's portion of the border total is developed on a margins basis and the repair shops' portion is counted at full value of services.

The input coefficients for the trade sectors were developed from sample data. A total of 125 trade establishments -- 63 wholesale and 62 retail -- were interviewed in the region. Questionnaire design and sampling procedures were developed jointly by the

²⁹Edison Electrical Institute, Statistical Year Book of the Electrical Utility Industry, No. 35, (New York: Edison Electrical Institute), September, 1968.

³⁰See Jack W. Huffman, "Input-Output Project: Water and Waste Water," Office of the Governor, Division of Planning Coordination, June 22, 1971.

³¹See Anthony Lusk, "Input-Output Procedures, Gross Value of Sales: Wholesale Trade, Retail Trade, and Selected Services," Office of the Governor, Division of Planning Coordination, April 14, 1971.

Houston project staff and the State Project Director.³²

Information obtained in this survey was also used in developing the transactions table in producer's rather than purchaser's prices; the difference being trade margins and transportation costs. During the data collection phase for all other sectors of the model, the purchase of an input through a trade sector was classified in the previous processor's sector but notation was made of the input being purchased through a trade sector. Development of the margins or mark-up information permitted a certain proportion (the percent of mark-up) to be moved to the appropriate trade sector with the remainder of the value of the purchase allocated to the previous processor.

Finance, Insurance, and Real Estate

This portion of the model contained three sectors (88-90). Gross output values and input coefficients for each of these sectors were estimated by the state project staff.

Output for the Banking and Credit Agencies sector (88) was defined as the total operating revenue received by the banking industry and other credit establishments and consists of interest income, investment income, rental income, and miscellaneous income.³³ Total input for the banking industry consisted of total operating expenses -- current charges against income plus federal income taxes, cash dividends, and residual income. Input for other credit agencies was defined as total current charges against income plus income taxes and distribution of residual income.

The banking portion of the border total was obtained from the Income Statement and Condition Report files of the Texas Banking Commission and from the Federal Deposit Insurance Corporation's Bank Operating Statistics 1967. That portion of the border total attributable to other credit agencies was estimated from several sources. The Texas Savings and Loan Commission and the Federal Savings and Loan League summarized data from their record files which was used to calculate output totals for the Savings and Loans Associations operating in Texas. Completed questionnaires were received from the Federal Land Bank and the Bank of Cooperatives and used to determine the output of agricultural credit institutions.

³²See Louis Stern, "Texas Interindustry Relations Study Wholesale and Retail Trade Sectors," University of Houston, Houston, Texas, May 25, 1970.

³³See Anthony Lusk, Herbert W. Grubb, and John Adams, "Banking Sector Procedures and Analysis of Inputs by Region, Texas Input-Output Project," Office of the Governor, Division of Planning Coordination, January 12, 1971; and Herbert W. Grubb, Anthony Lusk, and John Adams, "Other Credit Agencies Procedures and Analyses of Inputs by Region, Texas Input-Output Project," Office of the Governor, Division of Planning Coordination, February 2, 1971.

Output of personal credit institutions was obtained from the Texas Consumer Credit Commission. The output of business credit institutions, loan correspondents and brokers was estimated from sample data obtained by mail survey. Sample data were used to estimate input coefficients for this sector, with surveying and analyses done by the state project staff.

Gross output of the Insurance sector includes the income of insurance carriers, insurance agents, brokers, and service.³⁴ Specifically, the total value of output for the Insurance sector is equal to gross premiums for fire, casualty, health, and accident policies plus carrier and agent operating expenses for whole life policies plus investment earnings minus claims paid. The output of this sector does not include the asset value of asset accumulating policies of life insurance companies since these are considered as savings by insurance policy owners. There were three basic secondary data sources for the insurance sector: Annual Reports of Individual Insurance Carriers, Texas Premiums and Losses, and The Texas Blue Book of Life Insurance Statistics. The development of input coefficients was based primarily upon sample data obtained by mail survey by the state project staff.

Gross output for sector 90 (Finance, Insurance, and Real Estate, NEC) is ". . . the sum of income of Real Estate, Security and Commodity Brokers, and Investment Companies, and consists of (1) Total Commissions, fees and service charges, (2) Income from Interest Dividends and Other Income."³⁵ The border total from this sector was estimated from the 1967 Statistics of Income and from a mail survey of real estate operators and agents, security brokers, and investment companies. Input coefficients were also developed from this mail survey conducted by the state project staff.

Services

The model contained fifteen service sectors (94-108). Output was defined as gross billings and outputs for most sectors were estimated from the 1967 Census of Business by the state project staff.³⁶ The border totals for certain service sectors had to be estimated from other sources by the state project staff. The

³⁴See Herbert W. Grubb, Jack W. Huffman, and John Adams, "Insurance Sectors Definitions, Procedures, and Analyses of Inputs by Region," Office of the Governor, Division of Planning Coordination, February 24, 1971.

³⁵See Herbert W. Grubb, John Adams, and Jack W. Huffman, "F.I.R.E. NEC, Definitions and Procedures," Office of the Governor, Division of Planning Coordination, January 29, 1971, p. 1.

³⁶See Anthony Lusk, "Input-Output Procedures, Gross Value of Sales: Wholesale Trade, Retail Trade, and Selected Services," Office of the Governor, Division of Planning Coordination, April 14, 1971.

border total for sector 91 (Legal Services) was estimated from the 1967 Statistics of Income. The output for this sector reflects only practicing lawyer's billings and does not include any lawyer working on a salaried basis within a non-legal industry. The border totals for sectors 99 (Physicians and Dentists), 101 (Other Medical Services), 108 (Engineering and Architectural Services), 106 (Accounting, Auditing, and Bookkeeping Services), and 107 (Other Professional Services) were also estimated from the 1967 Statistics of Income. The border total for sector 108 (Other Services) was estimated from the national input-output model since regional output data for this sector were not available. A portion of the national border total for this sector was allocated to the region on the basis of population.

Four services sectors which contain public (governmental) operations were included in the processing portion of the model rather than in the government sectors which are included in the final demand portion of the model. The border total for sector 100 (Hospitals and Laboratory Services) was estimated from data based upon a hospital survey conducted by the American Hospital Association. The border total for sector 102 (Elementary and Secondary Schools) included operating expenses, school lunch expenses (including cost of donated U.S. commodities), debt service, and textbook expenses. The border total for sector 103 (Colleges and Universities) was derived by calculating the cost per student in the region times the number of students enrolled in colleges in the region. Expenses for this sector were defined as non-capital operating expenses but do not include the operation of dormitory or student center cafeterias. No secondary data sources were available to estimate the border total of sector 104 (Other Educational Services). Thus, the output of sample establishments in this sector was expanded to obtain the regional border total. It is noted that the border totals of governmental sectors included in the processing portion of the model do not include capital expenditures. This is consistent with other processing sectors.

Input coefficients for all service sectors, except sectors 102 (Elementary and Secondary Schools) and 103 (Colleges and Universities) were estimated from survey data. Interviewing of regional service establishments was conducted by the University of Texas at Arlington project staff. A total of 115 regional service establishments were interviewed. Input coefficients for sector 102 were developed by the state project staff largely from data obtained from the Texas Education Agency. Input coefficients for sector 103 were largely developed from operating expenses of colleges and universities reported to the Texas College Coordinating Board. Coefficients for this sector were also estimated by the state project staff.

Final Demand

The model contains eight final demand sectors. The border total of the local Households sector (109) was defined as the total income of regional households and was equal to total personal in-

come plus household contributions to social insurance as reported by the Survey of Current Business for 1967 for the SMSA counties and by the Office of Business Economics of the Department of Commerce for non-SMSA counties. Inputs for the Household column represent personal consumption expenditures, payment of taxes, and savings. The percent of personal income going to consumption expenditures was estimated from 1967 Survey of Current Business data for the nation. Personal Income taxes for the region were derived from Internal Revenue Service data which were reported by ZIP code.

The allocation of personal consumption expenditures by sector of the model was estimated in the following manner:

- (1) Percentage allocations of consumption expenditures were made to twenty broad expenditure categories from Consumer Expenditures and Income, United States, 1960-61 for the Dallas SMSA.
- (2) Disaggregation of the twenty commodity and service groups was based upon data from Consumer Expenditures and Income, United States, 1960-61 for the Southern region of the U.S. These disaggregations permitted a classification of expenditures according to sectors of the regional input-output model.
- (3) Estimates were then made regarding the percent of expenditures for a particular commodity or sector (as defined by the regional model) that would be purchased locally. Residual expenditures were allocated to Imports.

The capital formation column shows the amount of sales from each industry or sector along the left side of the table to local region capital investors. All entries in the processing sectors part of the table (Quadrant I) are on current account. Sales by the capital goods producing sectors to all buyers in the North Central Texas region for capital account (replacement of or addition to plant, equipment, and housing) are summarized in the capital formation column.

The total private capital formation in North Central Texas was estimated at approximately \$2.280 billion. This estimate was developed as follows:

- (1) The sales of construction sectors 12 (Residential), 13 (Commercial, Educational and Institutional), 14 (Industrial) and 15 (Facility) went in total to capital formation. These values were from the special report on construction³⁷ and represent construction put in place with a total value of \$1.659 billion.

³⁷op. cit., Ed George.

- (2) The expenditures for capital machinery and equipment purchased by the manufacturing sectors were estimated by taking the ratio of capital equipment expenditures to dollar of output for the state in 1967³⁸ and applying these ratios to manufacturing output per two-digit Standard Industrial Classification for the North Central Texas region. Total manufacturing capital purchases were estimated to be \$178 million. Expenditures for non-manufacturing sectors were compiled by using the ratio of capital equipment to dollars of output for the U. S. in 1958³⁹ and applying these ratios to North Central Texas Region outputs. Total non-manufacturing capital purchases were estimated at \$443 million. Total expenditures for capital machinery and equipment were \$621 million.

The total value of capital formation \$2.280 billion was allocated to sectors along the left side of the table who were the sellers. All sales of construction sectors 12-15 were allocated to capital formation. Estimates of sales in North Central Texas by capital producing sectors surveyed provided for the allocation of the capital equipment and machinery. The residual of capital equipment and machinery not purchased in the region was allocated to imports.

Entries in the Net Inventory Change column were estimated from interview data. The net change by sector is an estimate of the difference between inventories on hand at the beginning of the 1967 fiscal year and at the end of the year.

The border totals for the Federal Government Defense, Federal Government Non-Defense, and State Government sectors (112, 113, and 114) are defined as the purchases within the region by governmental agencies located outside the region, plus the purchases within the region by governmental agencies located in the region, plus the purchases outside the region by governmental agencies located in the region (these being the imports). Interest paid on the national debt by the Federal Government Non-Defense sector and flowing into the North Central Texas Region was allocated to the Household sector of the model. The operation of the Federal Reserve District Bank of Dallas is included in the Federal Government Non-Defense sector. Although Education and Colleges and Universities are excluded from the State and Local Government sectors, Federal Government Non-Defense expenditures on Education and Colleges and Universities within the region are included in the border total of the Federal Government Non-Defense sector. Federal

³⁸"Expenditures for Plant and Equipment", 1967 Census of Manufacturers, Bureau of Census, U.S. Department of Commerce, MC67(1)-5, December, 1970.

³⁹Capital Flow Matrix, 1958, Bureau of Labor Statistics, U.S. Department of Labor, Bulletin No. 1601, October, 1968.

Government Non-Defense transfers to State and Local Government are also included in the border total of the Federal Government Non-Defense sector. State Government transfers to Local Government within the region were included in the border total of the State Government sector. Border totals for the government sectors include capital expenditures as well as total non-capital expenditures.

Border totals and input data for the two federal government sectors were developed by the state project staff.⁴⁰ Federal agency expenditures for 1967 were obtained on a county basis from Federal Outlays in Texas, which identified selected input data. These inputs included construction grants and loans, non-wage transfers to households, and expenditures for higher education. The total civilian wages paid were obtained from the Texas Employment Commission. Total military payrolls paid in the region were added to the wage inputs for sector 112.

The border total and input data for the State Government sector were estimated by the state project staff.⁴¹ "Total expenditures for selected items were obtained from Fiscal Year '67 and Fiscal Year Annual Report."⁴² These figures were adjusted by subtracting the education expenditures of the state from these totals. Details on operating supplies were obtained from the Board of Control.

The border total of the Local Government sector (115) was defined as the expenditures of local governmental units (except education, etc. in the processing portion of the model) located in the region. Thus, imports would be a part of the expenditures of this sector. The Local Government border total and input data were estimated by the state project staff primarily from the U.S. Bureau of the Census, Census of Governments, 1967.⁴³

The border total for the Exports sector (116) is the estimated value of exports from each of the processing industries and other sectors during 1967. Column entries were largely estimated as residuals in allocating the border total for a given sector across its row. Information was also used from the sample sales

⁴⁰See Anita Rau and Anthony Lusk, "Federal Government Expenditures in Texas," Office of the Governor, Division of Planning Coordination, May 27, 1971.

⁴¹See Anthony Lusk, Anita Rau, and Camille Dvorsky, "Texas State Government Expenditures by Regions," Office of the Governor, Division of Planning Coordination, April 19, 1971.

⁴²Ibid., p. 1.

⁴³See Anthony Lusk, Anita Rau, and Camille Dvorsky, "Texas Local Government Expenditures by Regions," Office of the Governor, Division of Planning Coordination, May 11, 1971.

transactions table developed from survey data.

Final Payments

Most of the final payments sectors of the model corresponded with final demand sectors and have already been defined. The Gross Savings sector consisted largely of depreciation and corporate profits. The border total for this sector is equal to the border total of the Capital Formation sector. The border total for the Federal Government row (111) is equal to the sum of the border totals for final demand sectors 112 and 113 (Federal Government Defense and Federal Government non-Defense). The border total for the Imports sector was arbitrarily equated to the border total of the Exports sector.

APPENDIX B: SECTORS OF THE REGIONAL MODEL

SECTORS OF THE REGIONAL MODEL

AGRICULTURE

<u>1</u>	<u>Cotton</u>	
	Cotton-----	0112
<u>2</u>	<u>Cash Grains</u>	
	Cash Grains-----	0113
<u>3</u>	<u>Other Crops</u>	
	Tobacco-----	0114
	Field Crops, NEC-----	0119
	Fruits and Tree Nuts-----	0122
	Vegetables-----	0123
<u>4</u>	<u>Range Livestock</u>	
	Range Livestock-----	0135
<u>5</u>	<u>Feedlot Livestock</u>	
	Beef Cattle-----	0135
	Hogs-----	0136
	Livestock NEC-----	0139
<u>6</u>	<u>Dairy</u>	
	Dairies-----	0132
<u>7</u>	<u>Poultry and Eggs</u>	
	Broiler Chickens-----	0133
	Poultry, ex. Broiler Chickens-----	0134
<u>8</u>	<u>Agriculture Supply except Farm Machinery</u>	
	Hay, Grain, and Feed Stores-----	5962
	Farm and Garden Supply Stores, NEC-----	5969
<u>9</u>	<u>Agriculture Services</u>	
	Cotton, Ginning and Compressing-----	0712
	Grist Mills, inc. Custom Flour Mills-----	0713
	Corn Shelling, Hay Baling and Threshing-----	0714
	Contract Sorting, Grading and Packing of Fruit and Vegetables for Other-----	0715
	Ag. Services, NEC-----	0719
	Offices of Vets and Animal Hospitals-----	0722
	Poultry Hatcheries-----	0723
	Animal Husbandry Services, NEC-----	0729

MINING

<u>10</u>	<u>Crude Petroleum and Natural Gas</u>	
	Crude Petroleum and Natural Gas-----	1311
	Liquid Natural Gas-----	1321
<u>11</u>	<u>Oil and Gas Field Services</u>	

Oil and Gas Well Drilling-----	1381
Oil and Gas Field Exploration Services-----	1382
Oil and Gas Field Services, NEC-----	1389

CONSTRUCTION

<u>12 Residential Construction</u>	
Private Housing-----	1511
<u>13 Commercial, Educational and Institutional Construction</u>	
Office Buildings-----	1511
Shopping Centers and Businesses-----	1511
High Rise Apartments-----	1511
Educational-----	1511
Health and Hospital-----	1511
Correctional Institutions-----	1511
Other Commercial and Institutional, NEC-----	1511
<u>14 Industrial Construction</u>	
Factories and Plants-----	1511
Warehouses-----	1511
<u>15 Facility Construction</u>	
Highways-----	1611
Railroads and Local Transit-----	1621
Pipelines-----	1621
Light and Power and Telephone and Telegraph Lines-----	1621
Sewer and Water Systems-----	1621
<u>16 Maintenance and Repair</u>	
Plumbing, Heating and Air Conditioning-----	1711
Painting, Paper Hanging, and Decorating-----	1721
Electrical Work-----	1731
Masonry, Stone Setting, Other Stonework-----	1741
Plastering and Lathing-----	1742
Terrazzo, Tile, Marble and Mosiac Work-----	1743
Carpentering-----	1751
Floor Laying and Other Floor Work, NEC-----	1752
Roofing and Sheet Metal Work-----	1761
Concrete Work-----	1771
Water Well Drilling-----	1781
Structural Steel Erection-----	1791
Ornamental Metal Work-----	1792
Special Trade Contractors, NEC-----	1799

MANUFACTURING

<u>17 Meat Products</u>	
Meat Packing Plants-----	2011
Sausage and Other Prepared Meat Products-----	2013
Poultry and Small Game Dressing and Packing, Wholesale-----	2015

<u>18</u>	<u>Dairy Products</u>	
	Creamery Butter-----	2021
	Cheese, Natural and Processed-----	2022
	Condensed and Evaporated Milk-----	2023
	Ice Cream and Frozen Desserts-----	2024
	Fluid Milk-----	2026
<u>19</u>	<u>Grain Mill Products</u>	
	Flour and Other Grain Mill Products-----	2041
	Prepared Food for Animals and Fowl-----	2042
	Cereal Preparations-----	2043
	Rice Milling-----	2044
	Blended and Prepared Flour-----	2045
	Wet Corn Milling-----	2046
<u>20</u>	<u>Bakery Products</u>	
	Bread and Other Bakery Products, ex. cookies and crackers-----	2051
	Cookies and Crackers-----	2052
<u>21</u>	<u>Other Food and Kindred Products</u>	
	Canned and Cured Fish and Sea Foods-----	2031
	Canned Specialties-----	2032
	Canned Fruit, Vegetables, Preserves, Jam and Jelly-----	2033
	Dried and Dehydrated Fruit and Vegetables--	2034
	Pickled Fruit and Vegetables, Vegetable Sauce and Seasoning, Salad Dressing-----	2035
	Fresh and Frozen Packaged Fish and Sea Foods-----	2036
	Frozen Fruit, Fruit Juices, Vegetables and Specialties-----	2037
	Cane Sugar ex. Refining Only-----	2061
	Cane Sugar Refining-----	2062
	Beet Sugar-----	2063
	Candy and Other Confectionary Products-----	2071
	Chocolate and Cocoa Products-----	2072
	Chewing Gum-----	2073
	Malt Liquors-----	2082
	Malt-----	2083
	Wine, Brandy and Brandy Spirits-----	2084
	Liquor, Distilled, Blended and Rectified--	2085
	Bottled and Canned Soft Drinks and Carbonated Waters-----	2086
	Flavoring Extracts and Syrups, NEC-----	2087
	Cottonseed Oil Mills-----	2091
	Soybean Oil Mills-----	2092
	Vegetable Oil Mills, ex. Corn, Cottonseed and Soybean-----	2093
	Animal and Margarine Fat and Oil-----	2094
	Roasted Coffee-----	2095
	Shortening, Table Oil, Margarine and Other Edible Oils and Fats, NEC-----	2096
	Manufactured Ice-----	2097

Macaroni, Spaghetti, Vermicelli, and Noodles-----	2098
Food Preparations, NEC-----	2099
Cigars, Cigarettes, Other Tobacco and Snuff	21
<u>22 Textile Mill Products</u>	
Broad Woven Fabric Mills, Cotton-----	2211
Broad Woven Fabric Mills, Man-Made Fiber and Silk-----	2221
Broad Woven Fabric Mills, Wool-----	2231
Narrow Fabrics, Cotton, Wool, Man-Made Fibers, Etc.-----	2241
Hosiery, Full and Knee Length-----	2251
Knit Outerwear Mills-----	2253
Knit Fabric Mills-----	2256
Knitting Mills, NEC-----	2259
Finishers of Broad Woven Cotton-----	2261
Finishers of Broad Woven Man-Made Fiber and Silk-----	2262
Textile Finishers, NEC-----	2269
Woven Carpets and Rugs-----	2271
Tufted Carpets and Rugs-----	2272
Carpets and Rugs, NEC-----	2279
Yarn Spinning Mills, Cotton, Man-Made Fiber, Silk-----	2281
Thread Mills-----	2284
Felt Goods, ex. Woven Felts and Hats-----	2291
Padding and Upholstery Filling-----	2293
Processed Waste, Recovered Fiber and Flock- Artificial Leather, Oilcloth, and Other Impregnated and Coated Fabrics, ex. Rubbers-----	2294
Wool Scouring, Worsted Combing and Tow to Top Mills-----	2295
Cordage and Twine-----	2297
Textile Goods, NEC-----	2298
	2299
<u>23 Fabricated Textile Mill Products</u>	
Men's and Boy's Suits, Coats and Overcoats-----	2311
Men's and Boy's Shirts (ex. work shirts) Collars and Night Wear-----	2321
Men's and Boy's Underwear-----	2322
Men's and Boy's Neckwear-----	2323
Men's and Boy's Separate Trousers-----	2327
Men's and Boy's Work Clothing-----	2328
Men's and Boy's Clothing, NEC-----	2329
Women's, Misses' and Junior's Blouses, Waists, and Shirts-----	2331
Women's, Misses' and Junior's Dresses-----	2335
Women's, Misses' and Junior's Suits, Skirts, and Coats-----	2337
Women's, Misses' and Junior's Outerwear, NEC-----	2339
Women's, Misses' Children's and Infant's Underwear and Outerwear-----	2341

Corsets and Allied Garments-----	2342
Millinery-----	2351
Hats and Caps ex. Millinery-----	2352
Girl's, Children's, Infants' Dresses, Blouses, Waists, and Shirts-----	2361
Girl's, Children's, Infants' Coats and Suits-----	2363
Girl's, Children's, Infants' Outerwear, NEC	2369
Fur Goods-----	2371
Dress and Work Gloves, ex. Knit and All Leather-----	2381
Robes and Dressing Gowns-----	2384
Rain Coats and Other Waterproof Outwear----	2385
Leather and Sheep Lined Clothing-----	2386
Apparel Belts-----	2387
Apparel and Accessories, NEC-----	2389
Curtains and Draperies-----	2391
House Furnishings, ex. Curtains and Drapes-	2392
Textile Bags-----	2393
Canvas and Related Products-----	2394
Pleating, Decorative and Novelty Stitching and Tucking for the Trade-----	2395
Auto Trimming, Apparel Findings and Related Products-----	2396
Schiffli Machine Embroideries-----	2397
Fabricated Textile Products, NEC-----	2399
<u>24</u> <u>Lumber and Wood Products Except Furniture</u>	
General Sawmills and Planing Mills-----	2421
Hardwood Dimension and Flooring Mills-----	2426
Special Product Saw Mills, NEC-----	2429
Millwork-----	2431
Veneer and Plywood-----	2432
Prefab Wood Buildings and Structural Members-----	2433
Nailed and Lock Corner Wood Boxes and Shook	2441
Wire Bound Boxes and Crates-----	2442
Veneer and Plywood Containers, ex. Boxes and Crates-----	2443
Cooperage-----	2445
Wood Preserving-----	2491
Wood Products, NEC-----	2499
<u>25</u> <u>Furniture and Fixtures</u>	
Wood Household Furn., ex. Upholstered-----	2511
Upholstered Wood Furniture-----	2512
Metal Household Furniture-----	2514
Mattresses and Bedsprings-----	2515
Household Furniture, NEC-----	2519
Wood Office Furniture-----	2521
Metal Office Furniture-----	2522
Public Building and Related Furniture-----	2531
Wood Partitions, Shelving, Lockers, Office and Store Fixtures-----	2541

	Metal Partitions, Shelving, Lockers, Office and Store Fixtures-----	2542
	Venetian Blinds and Shades-----	2591
	Furniture and Fixtures, NEC-----	2599
<u>26</u>	<u>Paper and Allied Products Except Boxes and Containers</u>	
	Pulp Mills-----	2611
	Paper Mills, ex. Building Paper Mills-----	2621
	Paperboard Mills-----	2631
	Paper Coating and Glazing-----	2641
	Envelopes-----	2642
	Bags, ex. Textile Bags-----	2643
	Die Cut Paper, Paperboard and Cardboard-----	2645
	Pressed and Molded Pulp Goods-----	2646
	Sanitary Paper Products-----	2647
	Converted Paper and Paperboard Products, NEC-----	2649
	Building Paper and Building Board Mills-----	2661
<u>27</u>	<u>Boxes and Paper Containers</u>	
	Folding Paperboard Boxes-----	2651
	Set-up Paperboard Boxes-----	2652
	Corrugated and Solid Fiber Boxes-----	2653
	Sanitary Food Containers-----	2654
	Fiber-cans, Tubes, Drums, etc.-----	2655
<u>28</u>	<u>Newspapers</u>	
	Newspapers - Publishing and Printing-----	2711
<u>29</u>	<u>Publishing and Printing</u>	
	Periodicals - Publishing and Printing-----	2721
	Books - Publishing and Printing-----	2731
	Books - Printing (Not Publishing)-----	2732
	Miscellaneous Publishing-----	2741
	Commercial Printing, ex. Lithographing-----	2751
	Commercial Lithographing-----	2752
	Engraving and Plate Printing-----	2753
	Manifold Business Forms-----	2761
	Greeting Card Publishing-----	2771
	Blank Books, Loose Leaf Binders, and Devices-----	2782
	Bookbinding and Related Work-----	2789
	Typesetting-----	2791
	Photoengraving-----	2793
	Electrotyping and Stereotyping-----	2794
<u>30</u>	<u>Drugs, Soaps, Toiletries, and Cleaners</u>	
	Biological Products-----	2831
	Medicinal Chemicals and Botanical Products-----	2833
	Pharmaceutical Preparations-----	2834
	Soap and Detergent, ex. Special Cleaners-----	2841
	Special Cleaning, Polishing, and Sanitation Preparations ex. Soap and Detergent-----	2842

	Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants-----	2843
	Perfumes, Cosmetics, and Other Toiletries--	2844
<u>31</u>	<u>Other Chemicals and Allied Products</u>	
	Alkalies and Chlorine-----	2812
	Industrial Gasses-----	2813
	Cyclic Intermediates, Dyes, Organic Pigments, and Cyclic Crudes-----	2815
	Inorganic Pigments-----	2816
	Industrial Organic Chemicals, NEC-----	2818
	Industrial, Inorganic Chemicals, NEC-----	2819
	Plastic Materials, Synthetic Resins, and Nonvulcanizable Elastomers-----	2821
	Synthetic Rubbers-----	2822
	Paints, Varnishes, Lacquers, Enamels, and Allied Products-----	2851
	Gum and Wood Chemicals-----	2861
	Fertilizers-----	2871
	Fertilizers, Mixing Only-----	2872
	Agricultural Pesticides, and Other Agricultural Chemicals, NEC-----	2879
	Adhesives and Gelatins-----	2891
	Explosives-----	2892
	Printing Ink-----	2893
	Carbon Black-----	2895
	Chemicals and Chemical Preparations, NEC---	2899
<u>32</u>	<u>Petroleum Refining and Related Products</u>	
	Petroleum Refining-----	2911
	Paving Mixtures and Blocks-----	2951
	Asphalt Felts and Coatings-----	2952
	Lubricating Oils and Greases-----	2992
	Petroleum and Coal Products, NEC-----	2999
<u>33</u>	<u>Rubber Products</u>	
	Tires and Inner Tubes-----	3011
	Fabricated Rubber Products, NEC-----	3069
<u>34</u>	<u>Plastic Products</u>	
	Miscellaneous Plastic Products-----	3079
<u>35</u>	<u>Leather Products</u>	
	Leather Tanning and Finishing-----	3111
	Industrial Belting and Packing, Leather----	3121
	Boot and Shoe Cut Stock and Findings-----	3131
	Footwear, ex. House Slippers and Rubber----	3141
	House Slippers-----	3142
	Leather Gloves and Mittens-----	3151
	Luggage-----	3161
	Women's Handbags and Purses-----	3171
	Personal Leather Goods, ex. Handbags and Purses-----	3172
	Leather Goods, NEC-----	3199

<u>36</u>	<u>Glass, Stone, Clay and Concrete Products</u>	
	Iron Ores-----	101
	Copper Ores-----	102
	Lead and Zinc Ores-----	103
	Bauxite and Other Aluminum Ores-----	105
	Ferroalloy Ores, ex. Vanadium-----	106
	Metal Mining Services-----	108
	Miscellaneous Metal Ores-----	109
	Dimension Stone-----	1411
	Crushed and Broken Limestone-----	1422
	Crushed and Broken Granite-----	1423
	Crushed and Broken Stone, NEC-----	1429
	Construction Sand and Gravel-----	1442
	Industrial Sand-----	1446
	Bentonite-----	1452
	Fire Clay-----	1453
	Fullers Earth-----	1454
	Kaolin and Ball Clay-----	1455
	Feldspar-----	1456
	Clay, Ceramic, and Refractory Minerals, NEC-----	1459
	Rock Salt-----	1476
	Sulphur-----	1477
	Gypsum-----	1492
	Miscellaneous Nonmetallic Minerals, NEC-----	1499
	Glass and Glass Products except Containers-----	3211
	Glass Containers-----	3221
	Pressed and Blown Glass and Glassware, NEC-----	3229
	Glass Products, Made of Purchased Glass-----	3231
	Hydraulic Cement-----	3241
	Bricks and Structural Clay Tile-----	3251
	Ceramic Wall and Floor Tile-----	3253
	Clay Refractories-----	3255
	Structural Clay Products, NEC-----	3259
	Vitreous China and Earthenware Plumbing	
	Fixtures, Fittings, and Accessories-----	3261
	Vitreous China Table and Kitchen Articles-----	3262
	Porcelain Electrical Supplies-----	3264
	Pottery Products, NEC-----	3269
	Concrete Blocks and Bricks-----	3271
	Concrete Products, ex. 3271-----	3272
	Ready-mix Concrete-----	3273
	Lime-----	3274
	Gypsum Products-----	3275
	Cut Stone and Stone Products-----	3281
	Abrasive Products-----	3291
	Asbestos Products-----	3292
	Gaskets, Packing, and Asbestos Insulations-----	3293
	Minerals and Earths, Ground or Otherwise	
	Treated-----	3295
	Mineral Wool-----	3296
	Non-Clay Refractories-----	3297
	Nonmetallic Mineral Products, NEC-----	3299

37 Primary Metal Industries

	Blast Furnaces, Steel Works, Rolling	
	Mills, and Coke Ovens-----	3312
	Electrometallurgical Products-----	3313
	Steel Wire Drawing, Steel Nails and Spikes--	3315
	Cold Rolled Steel Sheet, Strips, and Bars--	3316
	Steel Pipes and Tubes-----	3317
	Gray Iron Foundries-----	3321
	Malleable Iron Foundries-----	3322
	Steel Foundries-----	3323
	Primary Nonferrous Smelting and Refining---	3331
	Secondary Nonferrous Smelting and Refining--	3341
	Nonferrous Rolling, Drawing and Extruding--	3351
	Nonferrous Foundries-----	3361
	Miscellaneous Primary Metal Products-----	3391
<u>38</u>	<u>Fabricated Steel</u>	
	Fabricated Structural Steel-----	3441
<u>39</u>	<u>Plate Work</u>	
	Fabricated Plate Work-----	3443
<u>40</u>	<u>Sheet Metal and Architectural</u>	
	Sheet Metal Work-----	3444
	Architectural & Ornamental metal work ----	3446
	Miscellaneous metal work -----	3449
<u>41</u>	<u>Metal Doors</u>	
	Metal Doors, Sash, Frames, Molding and Trim-----	3442
<u>42</u>	<u>Fabricated Metal Products</u>	
	Metal Cans-----	3411
	Cutlery-----	3421
	Hand and Edge Tools, ex. Machine Tools and Hand Saws-----	3423
	Hand Saws and Saw Blades-----	3425
	Hardware, NEC-----	3429
<u>43</u>	<u>Plumbing, Heating and Refrigeration</u>	
	<u>Machinery</u>	
	Enameled Iron and Metal Sanitary Ware-----	3431
	Brass Plumbing Fixtures, Fittings, and Trim	3432
	Non-Electric Heating Equipment-----	3433
	Air Conditioning Equipment, Commercial and Industrial Refrigeration Equipment-----	3585
<u>44</u>	<u>Electroplating</u>	
	Electroplating, Plating, Polishing, Anodizing, and Coloring-----	3471
	Coating, Engraving and Allied Services, NEC	3479
<u>45</u>	<u>Other Fabricated Metal Products</u>	
	Screw Machine Products-----	3451
	Bolts, Nuts, Screws, Rivets, and Washers---	3452

	Metal Stamping-----	3461
	Miscellaneous Fabricated Wire Products-----	3481
	Metal Shipping Barrels, Drums, Kegs, and Pails-----	3491
	Valves and Pipe Fittings, ex. 3432-----	3494
	Fabricated Pipe and Pipe Fittings-----	3498
	Safes and Vaults-----	3492
	Steel Springs-----	3493
	Collapsible Tubes-----	3496
	Metal Foil and Leaf-----	3497
	Fabricated Metal Products, NEC-----	3499
<u>46</u>	<u>Farm, Construction, Industrial and Material Handling Equipment</u>	
	Farm Machinery and Equipment-----	3522
	Construction Machinery and Equipment-----	3521
	Elevators and Moving Stairways-----	3534
	Conveyors and Conveying Equipment-----	3535
	Hoists, Industrial Cranes, and Monorail Systems-----	3536
	Industrial Trucks, Tractors, Trailers, and Stackers-----	3537
<u>47</u>	<u>Mining Machinery and Equipment</u>	
	Mining Machinery and Equipment, ex. 3533---	3532
	Oil Field Machinery and Equipment-----	3533
<u>48</u>	<u>Metal Working Machinery</u>	
	Metal Cutting Machine Tools-----	3541
	Metal Forming Machine Tools-----	3542
	Dies, Tools, Die Sets, Jigs, and Fixtures--	3544
	Machine Tool Accessories and Measuring Devices-----	3545
	Powered Hand Tools and Metal Working Machinery, ex. Machine Tools-----	3548
<u>49</u>	<u>Industrial Processing Machinery</u>	
	Food Products Machinery-----	3551
	Textile Machinery-----	3552
	Woodworking Machinery-----	3553
	Paper Industries Machinery-----	3554
	Printing Machinery and Equipment-----	3555
	Special Industry Machinery, NEC-----	3559
<u>50</u>	<u>Engines and General Industrial Machinery</u>	
	Steam Engines; Steam, Gas, and Hydraulic Turbines and Turbine Generators-----	3511
	Industrial Combustion Engines, NEC-----	3519
	Pumps, Air and Gas Compressors, and Pumping Equipment-----	3561
	Ball and Roller Bearings-----	3562
	Blowers, Exhaust and Ventilation Fans-----	3564
	Industrial Patterns-----	3565

	Mechanical Power Transmission Equipment, ex. 3562-----	3566
	Industrial Process Furnaces and Ovens-----	3567
	General Industrial Machinery and Equipment, NEC-----	3569
<u>51</u>	<u>Other Machinery and Equipment</u>	
	Computing and Related Machines-----	3571
	Typewriters-----	3572
	Scales and Balances, ex. Laboratory-----	3576
	Office Machines, NEC-----	3579
	Automatic Merchandising Machines-----	3581
	Commercial Laundry, Dry Cleaning, and Pressing Machines-----	3582
	Measuring and Dispensing Pumps-----	3586
	Service Industry Machines, NEC-----	3589
	Miscellaneous Machinery, ex. Electrical-----	3599
<u>52</u>	<u>Electric Instruments and Apparatus</u>	
	Electrical Measuring Instruments and Test Equipment-----	3611
	Power, Distribution, and Specialty Transformers-----	3612
	Switchgear and Switchboard Apparatus-----	3613
	Motors and Generators-----	3621
	Industrial Controls-----	3622
	Welding Apparatus-----	3623
	Carbon and Graphite Products-----	3624
	Electrical Industrial Apparatus, NEC-----	3629
	Electric Lamps-----	3641
	Lighting Fixtures-----	3642
	Current Carrying Wiring Devices-----	3643
	Non-Current Carrying Wiring Devices-----	3644
<u>53</u>	<u>Electronic Communications Equipment</u>	
	Electronic Computing Equipment-----	3573
	Radio and T.V. Sets, ex. Communication Types	3651
	Telegraph and Telephone Apparatus-----	3661
	Radio and T.V. Transmitting, signaling, and Detection Equipment-----	3662
	Radio and T.V. Electron Tubes, ex. Cathode Ray Tubes-----	3671
	Cathode Ray Picture Tubes-----	3672
	Electron Tubes - Transmitting, Industrial and Special Purpose-----	3673
	Semiconductors and Related Devices-----	3674
	Electronic Components and Accessories, NEC-	3679
<u>54</u>	<u>Other Electric Apparatus</u>	
	Household Cooking Equipment-----	3631
	Household and Farm Refrigerators and Freezers-----	3632
	Household Laundry Equipment-----	3633
	Electric Housewares and Fans-----	3634

	Household Vacuum Cleaners-----	3635
	Sewing Machines-----	3636
	Household Appliances, NEC-----	3639
	Storage Batteries-----	3691
	X-Ray Apparatus and Tubes, Electromedical and Electrotherapeutic Apparatus-----	3693
	Electrical Equipment for Internal Combustion Engines-----	3694
	Phonograph Records-----	3652
	Electrical Machinery, Equipment, and Supplies, NEC-----	3699
<u>55</u>	<u>Aircraft, Aircraft Engines and Ordnance</u>	
	Aircraft-----	3721
	Aircraft Engines and Engine Parts-----	3722
	Guns, Howitzers, Mortars, and Related Equipment-----	1911
	Assembled Guided Missiles and Space Vehicles-----	1925
	Ammo, ex. For Small Arms, NEC-----	1929
	Tanks and Tank Components-----	1931
	Sighting and Fire Control Equipment-----	1941
	Small Arms-----	1951
	Small Arms Ammo-----	1961
	Ordnance and Accessories, NEC-----	1999
<u>56</u>	<u>Aircraft Parts and Auxiliary Equipment</u>	
	Aircraft Propellers and Propellor Parts-----	3723
	Aircraft Parts and Auxiliary Equipment, NEC	3729
<u>57</u>	<u>Motor Vehicles and Parts</u>	
	Motor Vehicles-----	3711
	Passenger Car Bodies-----	3712
	Truck and Bus Bodies-----	3713
	Motor Vehicle Parts and Accessories-----	3714
	Truck Trailers-----	3715
<u>58</u>	<u>Other Transportation Equipment</u>	
	Ship Building and Repairing-----	3731
	Boat Building and Repairing-----	3732
	Locomotives and Parts-----	3741
	Railroad and Street Cars-----	3742
	Motorcycles, Bicycles, and Parts-----	3751
	Trailer Coaches-----	3791
	Transportation Equipment, NEC-----	3799
<u>59</u>	<u>Professional, Scientific, and Controlling Instruments and Supplies</u>	
	Engineering, Lab, Scientific and Research Instruments and Related Equipment-----	3811
	Mechanical Measuring and Controlling Instruments, ex. 3822-----	3821
	Automatic Temperature Controls-----	3822
	Optical Instruments and Lenses-----	3831

Surgical and Medical Instruments and Apparatus-----	3841
Orthopedic, Prosthetic, and Surgical Appliances and Supplies-----	3842
Dental Equipment and Supplies-----	3843
Ophthalmic Goods-----	3851
Photographic Equipment and Supplies-----	3861
Watches, Clocks, Clockwork Devices and Parts ex. Watchcases-----	3871
<u>60</u> <u>Other Manufacturing</u>	
Precious Metal Jewelry-----	3911
Lapidary Work-----	3913
Silverware, Plated Ware, and Stainless Steel Ware-----	3914
Musical Instruments-----	3931
Games and Toys, ex. 3942 and 3943-----	3941
Dolls-----	3942
Sporting and Athletic Goods, NEC-----	3949
Pens-Fountain, Ball Point, Pen Points, Mechanical Pencils and Parts-----	3951
Lead Pencils, Crayons, and Artists' Materials-----	3952
Marking Devices-----	3953
Carbon Paper and Inked Ribbons-----	3955
Costume Jewelry and Novelties, ex. 3911-----	3961
Feathers, Plumes, and Artificial Flowers-----	3962
Buttons-----	3963
Needles, Pins, Hooks, and Eyes, and Similar Notions-----	3964
Brooms and Brushes-----	3991
Signs and Advertising Displays-----	3993
Morticians' Goods-----	3994
Linoleum, Asphalted-Felt Base, and Other Hard Surface Floor Coverings, NEC-----	3996
Manufacturing Industries, NEC-----	3999

TRANSPORTATION

<u>61</u> <u>Railroad Transportation</u>	
Railroads, Line-Haul Operating-----	4011
Switching and Terminal Companies-----	4013
Sleeping Car and Other Passenger Car Service-----	4021
Railway Express Service-----	4041
<u>62</u> <u>Intercity Rural Highway Transportation</u>	
Intercity Buslines-----	4131
Intercity Highway Passenger Transportation, NEC-----	4132
<u>63</u> <u>Motor Freight Transportation</u>	
Trucking, ex. Local-----	4213
Terminal Maintenance Facilities for Motor Freight Transportation-----	4231

<u>64</u>	<u>Air Transportation</u>	
	Air Transportation, Certificated Carriers---	4511
	Air Transportation, Noncertificated Carriers-----	4521
	Airports and Flying Fields-----	4582
	Airport Terminal Services-----	4583
<u>65</u>	<u>Pipeline Transportation</u>	
	Crude Petroleum Pipelines-----	4612
	Refined Petroleum Pipelines-----	4613
	Pipe Lines, NEC-----	4619
<u>66</u>	<u>Local and Suburban Transportation</u>	
	Local and Suburban Transit-----	4111
	Local Passenger Transportation, NEC-----	4119
	Taxicabs-----	4121
<u>67</u>	<u>Warehousing and Other Transportation Services</u>	
	Local Passenger Charter Service-----	4141
	Passenger Charter Service, ex. Local-----	4142
	School Busses-----	4151
	Terminal and Maintenance Facilities for Motor Vehicle Passenger Transportation---	4171
	Maintenance and Service Facilities for Motor Vehicle Passenger Transportation---	4172
	Local Trucking and Draying, Without Storage-----	4212
	Local Trucking and Storage-----	4214
	Refrigerated Warehousing, ex. Food Lockers-	4222
	Food Lockers, With or Without Food Prepara- tion Facilities-----	4223
	Household Goods Warehousing and Storage---	4224
	General Warehousing and Storage-----	4225
	Special Warehousing and Storage, NEC-----	4226
	Freight Forwarding-----	4712
	Arrangement of Transportation-----	4721
	Railroad Car Rental With Care of Lading---	4742
	Railroad Car Rental Without Care of Lading-	4743
	Transportation Inspection and Weighing Services-----	4782
	Packing and Crating-----	4783
	Fixed Facilities for Handling Motor Vehicle Transportation, NEC-----	4784
		4789

UTILITIES AND COMMUNICATIONS

<u>68</u>	<u>Telephone and Telegraph</u>	
	Telephone Communications (Wire or Radio)---	4811
	Telegraph Communication (Wire or Radio)---	4821
<u>69</u>	<u>T.V., Radio, and Other Communication</u>	
	Radio Broadcasting-----	4832

	Television Broadcasting-----	4833
	Communication Services, NEC-----	4899
<u>70</u>	<u>Gas Services</u>	
	Natural Gas Transmission-----	4922
	Natural Gas Transmission and Distribution--	4923
	Natural Gas Distribution-----	4924
	Mixed, Manufactured or L.P. Gas Production and/ or Distribution-----	4925
	Gas and Other Services Combined (Gas Less than 95% Total)-----	4932
	Combination Companies and Systems, NEC-----	4939
	Federal Government Gas Portion of Gas Services-----	9149
	State Government Gas Portion of Gas Services	9249
	Local Government Gas Portion of Gas Services	9349
<u>71</u>	<u>Electric Services</u>	
	Electric Companies and Systems-----	4911
	Electric and Other Services Combined-----	4931
	Federal Government Electric Portion of Electric Services-----	9151
	State Government Electric Portion of Electric Services-----	9251
	Local Government Electric Portion of Electric Services-----	9351
<u>72</u>	<u>Water and Sanitary Service Systems</u>	
	Water Supply-----	4941
	Sewerage Systems-----	4952
	Refuse Systems-----	4953
	Sanitary Services, NEC-----	4959
	Steam Supply-----	4961
	Federal Government Portion of Water and Sanitary Services-----	9102
	State Government Portion of Water and Sanitary Services-----	9202
	Local Government Portion of Water and Sanitary Services-----	9302

WHOLESALE TRADE

<u>73</u>	<u>Wholesale Auto Parts and Supplies</u>	
	Automobiles and Other Motor Vehicles-----	5012
	Automotive Equipment-----	5013
	Tires and Tubes-----	5014
<u>74</u>	<u>Wholesale Groceries and Related Products</u>	
	Groceries-----	5041
	Frozen Foods-----	5042
	Dairy Products-----	5043
	Poultry and Poultry Products-----	5044
	Confectionary-----	5045
	Fish and Sea Foods-----	5046
	Meats and Meat Products-----	5047

	Fresh Fruits and Vegetables-----	5048
	Groceries and Related Products, NEC-----	5049
<u>75</u>	<u>Wholesale Farm Products and Livestock</u>	
	Stockyards-----	4731
	Cotton-----	5052
	Grain-----	5053
	Livestock-----	5054
	Farm Products, NEC-----	5059
<u>76</u>	<u>Wholesale Machinery, Equipment and Supplies</u>	
	Commercial Machines and Equipment-----	5081
	Construction and Mining Machinery and Equipment-----	5082
	Farm Machinery and Equipment-----	5083
	Industrial Machinery and Equipment-----	5084
	Industrial Supplies-----	5085
	Professional Equipment and Supplies-----	5086
	Equipment and Supplies for Service Establishments-----	5087
	Transportation Equipment, Except Motor Vehicles-----	5088
<u>77</u>	<u>Wholesale Petroleum and Petroleum Products</u>	
	Petroleum and Petroleum Products-----	5092
<u>78</u>	<u>General Wholesale</u>	
	Drugs, Drug Proprietaries, and Druggists' Sundries-----	5022
	Paints and Varnishes-----	5028
	Chemicals and Allied Products, NEC-----	5029
	Piece Goods (Woven Fabrics)-----	5033
	Notions and Other Dry Goods-----	5034
	Men's and Boys' Clothing and Furnishing-----	5036
	Women's, Children's and Infants' Clothing and Accessories-----	5037
	Footwear-----	5039
	Electrical Apparatus and Equipment and Construction Materials-----	5063
	Electrical Appliances, Television, and Radio Sets-----	5064
	Electronic Parts and Equipment-----	5065
	Hardware-----	5072
	Plumbing and Heating Equipment and Supplies	5074
	Air Conditioning and Refrigeration Equipment and Supplies-----	5077
	Metals and Minerals, NEC-----	5091
	Scrap and Waste Materials-----	5093
	Tobacco and Its Products-----	5094
	Beer, Wine and Distilled-----	5095
	Furniture and Home Furnishings-----	5097
	Lumber and Construction Materials-----	5098
	Wholesalers, NEC-----	5099

RETAIL TRADE

<u>79</u>	<u>Building Materials, Hardware, and Farm Equip-</u> <u>ment Dealers</u>	
	Lumber and Other Building Materials Dealers	5211
	Plumbing, Heating and Air Conditioning Equip- ment Dealers-----	5221
	Paint, Glass, and Wallpaper Stores-----	5231
	Electrical Supply Stores-----	5241
	Hardware Stores-----	5251
	Farm Equipment Dealers-----	5252
<u>80</u>	<u>Retail Trade - General Merchandise</u>	
	Department Stores-----	5311
	Mail Order Houses-----	5321
	Variety Stores-----	5331
	Automatic Merchandising Machine Operators--	5341
	Direct Selling Establishments-----	5351
	Miscellaneous General Merchandise Stores---	5399
<u>81</u>	<u>Food Stores</u>	
	Grocery Stores-----	5411
	Meat and Fish Markets-----	5421
	Fruit Stores and Vegetable Markets-----	5431
	Candy, Nut, and Confectionary Stores-----	5441
	Dairy Product Stores-----	5451
	Retail Bakeries - Baking and Selling-----	5462
	Retail Bakeries - Selling only-----	5463
	Misc. Food Stores-----	5499
<u>82</u>	<u>Automotive Dealers and Repair Shops</u>	
	Motor Vehicle Dealers (New and Used)-----	5511
	Motor Vehicle Dealers (Used Only)-----	5521
	Tire, Battery, and Accessory Dealers-----	5531
	Top and Body Repair Shops-----	7531
	Tire Retreading and Repair Shops-----	7534
	Paint Shops-----	7535
	General Automotive Repair Shops-----	7538
	Automotive Repair Shops NEC-----	7539
	Automobile Laundries-----	7542
	Automobile Services, NEC-----	7549
<u>83</u>	<u>Gasoline Service Stations</u>	
	Gasoline Service Stations-----	5541
<u>84</u>	<u>Apparel, Accessory Stores</u>	
	Men's and Boys' Clothing and Furnishings Stores-----	5611
	Women's Ready-to-Wear Stores-----	5621
	Women's Accessory and Specialty Stores-----	5631
	Children's and Infants' Wear Stores-----	5641
	Family Clothing Stores-----	5651
	Shoe Stores-----	5661

Custom Tailors-----	5671
Furriers and Fur Shops-----	5681
Miscellaneous Apparel and Accessory Stores-----	5699
85 Furniture, Home Furnishings, Equipment Stores	
Furniture Stores-----	5712
Floor Covering Stores-----	5713
Drapery, Curtain, and Upholstery Stores-----	5714
China, Glassware, and Metalware Stores-----	5715
Miscellaneous Home Furnishing Stores-----	5719
Household Appliance Stores-----	5722
Radio and Television Stores-----	5732
Music Stores-----	5733
86 Eating and Drinking Places	
Eating Places-----	5812
Drinking Places (Alcoholic Beverages)-----	5813
87 Other Retail	
Boat Dealers-----	5591
Household Trailer Dealers-----	5592
Aircraft and Automotive Dealers, NEC-----	5599
Drug Stores and Proprietary Stores-----	5912
Liquor Stores-----	5921
Antique Stores-----	5932
Second Hand Stores-----	5933
Book Stores-----	5942
Stationary Stores-----	5943
Sporting Goods Stores-----	5952
Bicycle Shops-----	5953
Hay, Grain, and Feed Stores-----	5962
Farm and Garden Supply Stores, NEC-----	5969
Jewelry Stores-----	5971
Fuel and Ice Dealers-----	5982
Fuel Oil Dealers-----	5983
Liquified Petroleum Gas Dealers-----	5984
Florists-----	5992
Cigar Stores and Stands-----	5993
News Dealers and Newstands-----	5994
Hobby, Toy, and Game Shops-----	5995
Camera and Photographic Supply Stores-----	5996
Gift, Novelty, and Souvenir Shops-----	5997
Miscellaneous Retail Stores, NEC-----	5999

FIRE, INSURANCE, AND REAL ESTATE

88 Banking and Credit Agencies	
Federal Reserve Banks-----	601
Commercial and Stock Savings Bank-----	602
Mutual Savings Banks-----	603
Trust Companies Not Engaged in Deposit Banking-----	604
Establishments Performing Functions Closely Related to Banking-----	605

Rediscount and Financing Institutions for	
Credit Agencies Other Than Banks-----	611
Savings and Loan Associations-----	612
Agricultural Credit Institutions-----	613
Personal Credit Institutions-----	614
Business Credit Institutions-----	615
Loan Correspondents and Brokers-----	616

89 Insurance Carriers

Life Insurance-----	631
Accident and Health Insurance Companies-----	632
Fire, Marine, and Casualty Insurance	
Companies-----	633
Surety Insurance-----	635
Title Insurance-----	636
Insurance Carriers, NEC-----	639
Insurance Agents, Brokers, and Service-----	641

90 Finance, Insurance and Real Estate, NEC

Security Brokers, Dealers, and Flotation	
Companies-----	621
Real Estate-----	651
Agents, Brokers, and Managers-----	653
Title Abstract Companies-----	654
Subdividers and Developers-----	655
Operative Builders-----	656
Combinations of Real Estate, Insurance,	
Loans, Law Offices-----	661
Holding Companies-----	671
Investment Companies-----	672
Trusts-----	673
Miscellaneous Investing Institutions-----	679

SERVICES

91 Legal Services

Legal Services-----	8111
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92 Lodging Services

Hotels, Tourist Courts, and Motels-----	7011
Rooming and Boarding Houses-----	7021
Trailer Parks-----	7031
Sporting and Recreational Camps-----	7032
Organization Hotels and Lodging Houses on	
a Membership Basis-----	7041

93 Personal Services

Power Laundries, Family and Commercial-----	7211
Laundries, Except Power-----	7212
Linen Supply-----	7213
Diaper Service-----	7214
Coin-Operated Laundries and Dry Cleaning---	7215
Dry Cleaning and Dyeing Plants, Except	
Rug Cleaning-----	7216

Rug Cleaning and Repairing Plants-----	7217
Industrial Launderers-----	7218
Beauty Shops-----	7231
Barber Shops-----	7241
Shoe Repair Shops, Shoe Shine Parlors, and Hat Cleaning Shops-----	7251
Funeral Service and Crematories-----	7261
Garment Pressing, Alteration, and Repair---	7271
Miscellaneous Personal Services-----	7299
<u>94 Advertising, Duplicating, and Addressing Services</u>	
Advertising Agencies-----	7311
Outdoor Advertising Services-----	7312
Radio, Television, and Publishers' Advertising Representatives-----	7313
Miscellaneous Advertising-----	7319
Direct Mail Advertising Services-----	7331
Blueprinting and Photocopying Services-----	7332
Stenographic Services: and Duplicating Services, NEC-----	7339
<u>95 Photographic, Motion Picture, Amusement, and Recreation Services</u>	
Photographic Studies, Including Commercial Photography-----	7223
Photofinishing Laboratories-----	7395
Motion Picture Production, Except for Television-----	7813
Motion Picture and Tape Production for Television-----	7814
Production of Still and Slide Films-----	7815
Motion Picture Film Exchanges-----	7816
Film or Tape Distribution for Television---	7817
Services Allied to Motion Picture Distribution-----	7818
Motion Picture Industries-----	7821
Motion Picture Theaters, Except Drive-In---	7832
Drive-In Motion Picture Theaters-----	7833
Dance Halls, Studios, and Schools-----	7911
Theatrical Producers (Except Motion Picture) and Miscellaneous Theatrical Services---	7922
Bands, Orchestras, Actors, and Other Entertainers, and Entertainment Groups---	7929
Billiard and Pool Establishments-----	7932
Bowling Alleys-----	7933
Professional Sports Clubs, Athletic Fields, Arenas, and Sports Promoters-----	7941
Public Golf Courses-----	7942
Coin-Operated Amusement Devices-----	7943
Skating Rinks-----	7945
Amusement Parks-----	7946
Golf Clubs and Country Clubs-----	7947
Race Track Operation, Including Racing Stables-----	7948

	Amusement and Recreation Services, NEC-----	7949
<u>96</u>	<u>Other Business Services</u>	
	Consumer Credit Reporting Agencies, Mercantile Reporting Agencies and Adjustment and Collection Agencies-----	7321
	Window Cleaning-----	7341
	Disinfecting and Exterminating Services-----	7342
	Miscellaneous Services to Dwelling and Other Buildings-----	7349
	News Syndicates-----	7351
	Private Employment Agencies-----	7361
	Commercial Research and Development Laboratories-----	7391
	Business, Management, Administrative, and Consulting Services-----	7392
	Detective Agencies and Protective Services-----	7393
	Equipment Rental and Leasing Services-----	7394
	Trading Stamp Services-----	7396
	Commercial Testing Laboratories-----	7397
	Temporary Help Supply Service-----	7398
	Business Services, NEC-----	7399
	Non-Profit Educational and Scientific Research Agencies-----	8921
<u>97</u>	<u>Automobile Rental Services and Parking</u>	
	Passenger Car Rental and Leasing, Without Drivers-----	7512
	Truck Rental and Leasing, Without Drivers-----	7513
	Utility and House Trailer Rental-----	7519
	Parking Lots-----	7523
	Parking Structures-----	7525
<u>98</u>	<u>Repair Services</u>	
	Radio and Television Repair Shops-----	7622
	Refrigerator Service Repair Shops-----	7623
	Electrical Repair Shops, NEC-----	7629
	Watch, Clock, and Jewellery Repair-----	7631
	Reupholstery and Furniture Repair-----	7641
	Welding Repair-----	7692
	Armature Rewinding Shops-----	7694
	Repair Shops and Related Services, NEC-----	7699
<u>99</u>	<u>Physicians and Dentists</u>	
	Offices of Physicians and Surgeons-----	8011
	Offices of Dentists and Dental Surgeons-----	8021
	Offices of Osteopathic Physicians-----	8031
	Offices of Chiropractors-----	8041
<u>100</u>	<u>Hospital and Laboratory Services</u>	
	Hospitals-----	8061
	Medical Laboratories-----	8071
	Dental Laboratories-----	8072

<u>101</u>	<u>Other Medical Services</u>	
	Sanatoria, and Convalescent Rest Homes-----	8092
	Health and Allied Services, NEC-----	8099
<u>102</u>	<u>Elementary and Secondary Schools</u>	
	Elementary and Secondary Schools-----	8211
<u>103</u>	<u>Colleges and Universities</u>	
	Colleges, Universities, and Professional Schools-----	8221
	Junior Colleges and Technical Insitutes----	8222
<u>104</u>	<u>Other Educational Services</u>	
	Libraries and Information Centers-----	8231
	Correspondence Schools-----	8241
	Vocational Schools, Except Vocational High Schools-----	8242
	Schools and Educational Services, NEC-----	8299
<u>105</u>	<u>Engineering and Architectural Services</u>	
	Engineering and Architectural Services-----	8911
<u>106</u>	<u>Accounting, Auditing, and Bookkeeping Services</u>	
	Accounting, Auditing, and Bookkeeping Services-----	8931
<u>107</u>	<u>Other Professional Services</u>	
	Other Professional Services, NEC-----	8999
<u>108</u>	<u>Other Services</u>	
	Museums and Art Galleries-----	8411
	Aboreta, Botanical, and Zoological Gardens--	8421
	Business Associations-----	8611
	Professional Membership Organizations-----	8621
	Labor Unions and Similar Labor Organizations-----	8631
	Civic, Social, and Fraternal Associations--	8641
	Political Organizations-----	8651
	Religious Organizations-----	8661
	Charitable Organizations-----	8671
	Nonprofit Membership Organizations, NEC----	8699

Industrial Sector	Estimated Employment
1	1,000
2	2,000
3	3,000
4	4,000
5	5,000
6	6,000
7	7,000
8	8,000
9	9,000
10	10,000
11	11,000
12	12,000
13	13,000
14	14,000
15	15,000
16	16,000
17	17,000
18	18,000
19	19,000
20	20,000
21	21,000
22	22,000
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26	26,000
27	27,000
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31	31,000
32	32,000
33	33,000
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43	43,000
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67	67,000
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73	73,000
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83	83,000
84	84,000
85	85,000
86	86,000
87	87,000
88	88,000
89	89,000
90	90,000
91	91,000
92	92,000
93	93,000
94	94,000
95	95,000
96	96,000
97	97,000
98	98,000
99	99,000
100	100,000

APPENDIX C. ESTIMATED EMPLOYMENT BY INDUSTRIAL SECTOR

Appendix C Table 9. Estimated employment by industrial sector -- North Central Region; Texas, 1967^a

Regional Sector Number	Industry Title	Employment
1	Cotton	6,039 ^b
2	Cash Grains	3,648 ^b
3	Other Crops	2,352 ^b
4	Range Livestock Product	12,181 ^b
5	Feedlot Livestock Production	168 ^b
6	Dairy	2,677 ^b
7	Poultry and Eggs	4,598 ^b
8	Ag. Supply ex. Farm Mach.	901 ^c
9	Agricultural Services	821 ^c
10	Crude Petroleum and Natural Gas	7,861 ^d
11	Oil and Gas Field Service	2,499 ^d
12	Residential Construction	14,365 ^e
13	Comm., Educ., & Institutional Construction	14,821 ^e
14	Industrial Construction	5,942 ^e
15	Facility Construction	13,637 ^e
16	Maintenance and Repair	8,139 ^e
17	Meat Products	7,130
18	Dairy Products	2,820
19	Grain Mill Products	1,988
20	Bakery Products	4,005
21	Food Products	12,032

(continued)

Appendix C Table 9 (continued)

Regional Sector Number	Industry Title	Employment
22	Textile Mill Products	2,660
23	Fabricated Textile Products	23,505
24	Lumber & Wood Products ex. Furniture	4,492
25	Furniture and Fixture	7,670
26	Paper & Allied Products ex. boxes and containers	3,729
27	Paperboard Containers and Boxes	3,886
28	Newspapers	5,362
29	Printing and Publishing, ex. Newspapers	9,831
30	Drugs, Soaps, Cleansers and Toiletries	2,434
31	Other Chemicals and Allied Products	4,624
32	Petroleum Refining & Related Products	2,049
33	Rubber Products	2,564
34	Plastic Products	4,131
35	Leather Products	1,520
36	Stone, Clay, Glass, and Concrete Products	9,693
37	Primary Metal Industries	5,667
38	Fabricated Steel	2,508
39	Fabricated Plate Work	1,739
40	Sheet Metal & Architectural	3,103
41	Metal Doors, Frames, and Trim	1,360

(continued)

Appendix C Table 9 (continued)

Regional Sector Number	Industry Title	Employment
42	Metal Cans, Cutlery, Hand Tools and General Hardware	1,021
43	Heating, Cooling, and Plumbing Machinery and Equipment	4,022
44	Electroplating, Coating, and Engraving	1,358
45	Other Fabricated Metal Products	2,564
46	Farm, Construction and Material Handling Mach. and Equipment	2,662
47	Mining, Machinery and Equipment	8,454
48	Metal Working Machinery	1,699
49	Industrial Processing Machinery	2,138
50	Engines and General Industrial Machinery	1,944
51	Other Machinery and Equipment	4,056
52	Electric Instruments and Apparatus	2,075
53	Electronic Communications Equipment	43,236
54	Other Electric Apparatus	1,851
55	Aircraft, Aircraft Engines and Ordnance	50,170
56	Aircraft Parts and Auxiliary Equipment	2,790
57	Motor Vehicles and Parts	7,659
58	Other Transportation Equipment	3,903
59	Prof., Scientific and Controlling Instruments and Supplies	4,123
60	Other Mfg.	2,631
61	Railroad Transportation	10,481 ^f

(continued)

Appendix C Table 9 (continued)

Regional Sector Number	:	Industry Title	:	Employment
62	:	Intercity Rural Hwy Transportation	:	1,237 ^f
63	:	Motor Freight Transportation	:	18,999 ^f
64	:	Air Transportation	:	13,033 ^f
65	:	Pipeline Transportation	:	543 ^f
66	:	Local and Suburban Transportation	:	1,386 ^f
67	:	Warehousing & Other Transp. Services	:	2,204 ^f
68	:	Telephone and Telegraph	:	13,010 ^g
69	:	TV, Radio & Other Communication	:	1,477 ^h
70	:	Gas Services	:	4,345
71	:	Electric Services	:	7,003
72	:	Water & Sanitary Service Systems	:	4,325 ⁱ
73	:	Wholesale Auto Parts and Supplies	:	7,326
74	:	Wholesale Groceries and Related Products	:	9,608
75	:	Wholesale Farm Products and Livestock	:	2,491
76	:	Wholesale Machinery, Equipment and Supplies	:	18,597
77	:	Wholesale Petroleum and Petroleum Products	:	4,675
78	:	General Wholesale	:	36,030
79	:	Bldg. Materials, Hardware and Farm Equipment Dealers	:	6,822
80	:	Retail Trade-General Merchandise	:	40,362
81	:	Food Stores	:	23,862
82	:	Automotive Dealers and Repair Shops	:	17,746

Appendix C Table 9 (continued)

Regional Sector Number	Industry Title	Employment
83	Gasoline Service Stations	5,738
84	Apparel, Accessory Stores (r)	9,056
85	Furniture, Home Furnishing Equipment Stores	5,914
86	Eating and Drinking Places	34,705
87	Other Retail	15,310
88	Banking and Credit Agencies	19,900 ^j
89	Insurance Carriers	24,746 ^k
90	Finance, Insurance, and Real Estate, n.e.c.	15,806 ^l
91	Legal Services	1,410
92	Lodging Services	10,281
93	Personal Services	17,500
94	Advertising, Duplicating, and Addressing	2,245
95	Photographic Services	11,856
96	Other Business Services	14,190
97	Auto Rental Service & Parking	1,687
98	Repair Services	2,494
99	Physicians and Dentists Services	3,264
100	Hospital and Lab Services	7,047
101	Other Medical Services	7,950
102	Elementary and Secondary Schools	31,921
103	Colleges and Universities	7,291

(continued)

Appendix C Table 9 (continued)

Regional Sector Number	Industry Title	Employment
104	All Other Educational Services	4,061
105	Engineering and Architectural Services	5,297
106	Accounting, Auditing and Bookkeeping	2,556
107	Other Professional Services	158
108	Other Services	<u>3,129</u>
	Total ^m	890,581

^aSource: Texas Employment Commission (unless otherwise noted)

^bSource: Foote, Richard J., "Labor Input Coefficients for Farm Sectors," Office of the Governor, Division of Planning Coordination, June, 1971.

^cSource: Estimate of Jack W. Huffman, Office of the Governor, Division of Planning Coordination.

^dSource: Vinson, James R., "Texas Input-Output Study Special Mining Industry Report," Bureau of Economic and Business Research, Hardin-Simmons University, Abilene, Texas, August 1, 1971.

^eSource: George, Edward Y., "Technical Working Paper: Construction Industry," Bureau of Business and Economic Research University of Texas at El Paso, El Paso, Texas, September 30, 1970.

^fSource: Huffman, Jack W., "State Input-Output Project: Transportation," Office of the Governor, Division of Planning Coordination, August 13, 1971.

^gSource: Grubb, Herbert W., Lusk, Anthony, and David Moorman, "Texas Input-Output Project Procedures: Telephone Industry," Office of the Governor, Division of Planning Coordination, Revised March 22, 1971.

^hSource: Moorman, David and Herbert W. Grubb, "An Input-Output Analysis of Selected Communications Sectors in Texas," Office of the Governor, Division of Planning Coordination, April 1, 1971.

ⁱSource: Huffman, Jack W., "Input-Output Project: Water and Waste Water," Office of the Governor, Division of Planning Coordination, June 22, 1971.

^jSource: Lusk, Anthony, Grubb, Herbert W., and John Adams, "Banking Sector Procedures and Analysis of Inputs by Region, Texas Input-Output Project," Office of the Governor, Division of Planning Coordination, January 12, 1971.

^kSource: Grubb, Herbert W., Huffman, Jack W., and John Adams, "Insurance Sectors Definitions, Procedures, and Analyses of Inputs by Region," Office of the Governor, Division of Planning Coordination, February 24, 1971.

^lSource: Grubb, Herbert W., Adams, John, and Jack W. Huffman, "F.I.R.E. NEC, Definitions and Procedures," Office of the Governor, Division of Planning Coordination, January 29, 1971.

^mTotal does not include government employees (except those included in sectors 100, 102, 103, and 104) and employees of regional households. Total employment was estimated by the Texas Employment Commission to have been 1,106,125 in April, 1967.

Appendix D. Sales to and Purchases from Processing, Final Demand and Final Payments Sectors by Industrial Sector

Year	Manufacturing	Construction	Services	Total
1964	287.23	1.72	285.51	572.74
1965	311.22	1.72	309.50	622.44
1966	328.67	1.72	326.95	656.62
1967	352.12	1.72	350.40	698.24
1968	375.57	1.72	373.85	747.32
1969	399.02	1.72	397.30	796.32
1970	422.47	1.72	420.75	843.22
1971	445.92	1.72	444.20	890.12
1972	469.37	1.72	467.65	936.74
1973	492.82	1.72	491.10	983.64
1974	516.27	1.72	514.55	1030.54
1975	539.72	1.72	538.00	1077.44
1976	563.17	1.72	561.45	1124.34
1977	586.62	1.72	584.90	1171.24
1978	610.07	1.72	608.35	1218.14
1979	633.52	1.72	631.80	1265.04
1980	656.97	1.72	655.25	1311.94
1981	680.42	1.72	678.70	1358.84
1982	703.87	1.72	702.15	1405.74
1983	727.32	1.72	725.60	1452.64
1984	750.77	1.72	749.05	1499.54
1985	774.22	1.72	772.50	1546.44
1986	797.67	1.72	795.95	1593.34
1987	821.12	1.72	819.40	1640.24
1988	844.57	1.72	842.85	1687.14
1989	868.02	1.72	866.30	1734.04
1990	891.47	1.72	889.75	1780.94
1991	914.92	1.72	913.20	1827.84
1992	938.37	1.72	936.65	1874.74
1993	961.82	1.72	960.10	1921.64
1994	985.27	1.72	983.55	1968.54
1995	1008.72	1.72	1007.00	2015.44
1996	1032.17	1.72	1030.45	2062.34
1997	1055.62	1.72	1053.90	2109.24
1998	1079.07	1.72	1077.35	2156.14
1999	1102.52	1.72	1100.80	2203.04
2000	1125.97	1.72	1124.25	2249.94
2001	1149.42	1.72	1147.70	2296.84
2002	1172.87	1.72	1171.15	2343.74
2003	1196.32	1.72	1194.60	2390.64
2004	1219.77	1.72	1218.05	2437.54
2005	1243.22	1.72	1241.50	2484.44
2006	1266.67	1.72	1264.95	2531.34
2007	1290.12	1.72	1288.40	2578.24
2008	1313.57	1.72	1311.85	2625.14
2009	1337.02	1.72	1335.30	2672.04
2010	1360.47	1.72	1358.75	2718.94
2011	1383.92	1.72	1382.20	2765.84
2012	1407.37	1.72	1405.65	2812.74
2013	1430.82	1.72	1429.10	2859.64
2014	1454.27	1.72	1452.55	2906.54
2015	1477.72	1.72	1476.00	2953.44
2016	1501.17	1.72	1499.45	3000.34
2017	1524.62	1.72	1522.90	3047.24
2018	1548.07	1.72	1546.35	3094.14
2019	1571.52	1.72	1569.80	3141.04
2020	1594.97	1.72	1593.25	3187.94
2021	1618.42	1.72	1616.70	3234.84
2022	1641.87	1.72	1640.15	3281.74
2023	1665.32	1.72	1663.60	3328.64
2024	1688.77	1.72	1687.05	3375.54
2025	1712.22	1.72	1710.50	3422.44
2026	1735.67	1.72	1733.95	3469.34
2027	1759.12	1.72	1757.40	3516.24
2028	1782.57	1.72	1780.85	3563.14
2029	1806.02	1.72	1804.30	3610.04
2030	1829.47	1.72	1827.75	3656.94

(Continued)

Appendix D Table 10 Sales to and purchases from regional processing sectors -- North Central Region of Texas, 1967 .

Sector Number	(1) Sales to processing sectors (thousands of dollars)	(2) Sales to processing as percent of gross output	(3) Purchases from processing sectors (thousands of dollars)	(4) Purchases from processing as percent of gross outlay
1	7,405	14.3	23,586	45.6
2	46,547	81.7	23,216	40.7
3	20,317	49.1	9,851	23.8
4	24,056	19.4	51,452	41.4
5	16,339	72.9	17,513	78.2
6	55,230	89.7	34,078	55.3
7	27,164	62.3	34,113	78.2
8	14,567	82.9	2,569	14.6
9	11,402	58.8	9,117	47.0
10	31,329	27.2	14,663	12.7
11	6,862	37.3	1,118	6.1
12	0	0	99,829	21.9
13	3,045	0.6	118,785	22.7
14	0	0	60,231	31.8
15	4,762	0.8	116,835	19.2
16	90,223	46.5	62,108	32.0
17	65,028	16.5	112,088	28.5
18	31,895	23.0	71,801	51.8
19	79,039	42.8	46,144	25.0
20	5,866	6.1	31,984	33.3
21	38,567	7.6	144,802	28.5
22	23,744	54.9	3,427	7.9
23	3,317	0.9	46,645	13.3
24	44,017	59.7	8,374	11.4
25	8,332	7.3	17,159	14.9
26	22,441	19.3	14,250	12.3
27	75,583	75.7	8,176	8.2
28	50,349	66.1	11,493	15.1
29	92,200	47.4	36,014	18.5
30	5,909	4.5	12,933	9.7
31	77,348	40.8	27,166	14.3
32	14,382	27.6	7,158	13.7
33	14,839	22.0	11,662	17.3
34	16,060	17.4	8,979	9.7
35	77	0.5	952	6.5
36	143,850	65.4	44,582	20.3
37	60,780	27.6	24,944	11.3
38	15,518	22.5	5,410	7.8
39	16,187	45.5	3,023	8.5

(continued)

Appendix D Table 10. (continued)

Sector	:	:	:	:	:
Number	(1)	(2)	(3)	(4)	
40	26,762	54.7	3,801	7.8	
41	6,854	28.9	3,595	15.2	
42	19,309	28.5	11,398	16.8	
43	38,913	21.4	21,307	11.7	
44	7,162	48.1	1,910	12.8	
45	23,946	38.3	9,335	14.9	
46	1,620	3.4	7,183	14.9	
47	11	0.0	8,616	6.5	
48	4,466	17.4	2,512	9.8	
49	2,133	4.1	5,895	11.4	
50	11,279	23.8	6,365	13.4	
51	6,143	9.6	8,122	12.7	
52	19,831	52.3	10,338	27.3	
53	47,915	7.7	60,822	9.8	
54	1,509	4.4	15,862	45.8	
55	961	0.0	263,289	11.0	
56	103,415	78.3	8,985	6.8	
57	14,549	2.2	26,654	4.1	
58	119	0.2	23,563	30.1	
59	9,950	9.5	7,704	7.4	
60	8,025	15.9	7,133	14.1	
61	42,808	27.3	35,455	22.6	
62	947	3.2	5,036	17.1	
63	84,298	22.1	102,508	26.9	
64	10,677	7.1	24,905	16.5	
65	885	11.1	1,776	22.2	
66	0	0.0	4,321	22.0	
67	7,326	39.5	6,937	37.4	
68	104,038	46.3	17,422	7.7	
69	21,139	44.3	7,731	16.2	
70	87,851	51.9	39,263	23.2	
71	144,940	54.1	63,543	23.7	
72	25,808	40.5	17,909	28.1	
73	12,269	9.4	18,940	14.5	
74	10,437	8.2	12,730	10.0	
75	4,436	12.8	10,251	29.7	
76	38,161	10.0	35,959	9.4	
77	22,296	28.3	12,182	15.5	
78	120,885	19.4	64,485	10.3	
79	18,462	32.1	6,449	11.2	
80	16	0.0	56,999	17.8	
81	72	0.0	38,854	17.4	
82	31,860	12.9	39,221	15.8	
83	15,723	22.7	13,578	19.6	
84	22	0.0	13,718	18.2	
85	83	0.1	17,660	27.6	

(continued)

Appendix D Table 10 (continued)

Sector	:	:	:	:
Number	(1)	(2)	(3)	(4)
86	7,625	2.5	94,040	30.4
87	3,168	1.5	44,740	21.2
88	196,882	33.2	98,282	16.6
89	114,783	14.0	102,998	12.6
90	175,747	35.4	206,599	41.6
91	38,583	54.2	5,464	7.7
92	8,573	8.3	40,429	39.3
93	10,718	5.2	31,009	15.1
94	80,099	78.9	23,488	23.1
95	7,340	6.7	19,262	17.5
96	101,877	56.5	18,513	10.3
97	14,372	23.5	12,876	21.0
98	27,477	35.9	11,921	15.6
99	3,178	1.8	24,883	13.8
100	12,455	8.5	20,120	13.8
101	6,355	8.7	7,618	10.4
102	88,117	28.1	39,510	12.6
103	10,856	11.9	22,380	24.5
104	852	1.9	778	1.8
105	9,788	12.4	12,969	16.5
106	49,646	31.5	14,690	9.3
107	19,672	62.0	4,347	13.7
108	31,163	16.3	26,845	14.0

Appendix D Table 11. Sales to exports and households sectors and purchases from imports and households sectors -- North Central Region of Texas, 1967 .

Sector Number	(1) Sales to exports as percent of gross output	(2) Purchases from imports as percent of gross output	(3) Sales to households as percent of gross output	(4) Purchases from households as percent of gross outlay
1	74.6	14.5	0.0	30.9
2	6.7	17.1	0.0	32.4
3	17.4	7.4	12.9	61.5
4	74.0	17.1	1.3	28.2
5	12.8	19.7	6.7	1.5
6	12.3	18.2	0.1	14.6
7	12.6	5.1	25.3	7.3
8	0.0	16.7	17.1	56.7
9	0.0	12.4	41.2	26.4
10	72.8	19.3	0.0	25.7
11	62.7	44.8	0.0	36.7
12	0.0	34.9	0.0	20.2
13	0.0	52.2	0.0	20.1
14	0.0	41.9	0.0	17.1
15	0.0	48.3	0.0	17.9
16	0.3	30.3	51.9	22.3
17	59.7	56.7	22.3	11.5
18	3.6	21.5	65.3	13.5
19	44.0	59.9	6.5	8.0
20	2.1	28.5	88.7	26.9
21	53.1	43.9	39.4	15.6
22	43.5	43.7	0.2	28.5
23	79.4	42.6	17.3	31.1
24	24.0	50.4	7.8	32.0
25	80.3	48.9	4.4	28.6
26	76.3	56.8	1.9	22.5
27	19.4	56.1	0	23.1
28	6.6	28.5	26.9	37.0
29	50.9	40.9	0.5	34.3
30	77.6	45.6	15.6	16.2
31	56.0	53.9	1.0	16.3
32	38.8	50.4	12.9	16.5
33	67.1	48.2	6.5	29.0
34	66.0	52.1	7.4	23.8
35	76.8	48.6	18.5	37.8
36	30.9	37.4	1.4	29.3

(continued)

Appendix D Table 11. (continued)

Sector	:	:	:	:	:			
Number	:	(1)	:	(2)	:	(3)	:	(4)
37		72.2		47.9		0.0		20.7
38		68.8		58.8		0.0		26.7
39		51.7		55.0		0.0		25.7
40		39.3		52.0		0.0		29.0
41		73.5		52.3		0.0		26.9
42		70.2		51.0		0.0		12.5
43		67.1		60.5		2.4		15.1
44		51.3		29.8		0.0		39.3
45		51.1		43.6		0.0		26.9
46		84.5		39.4		0.0		26.5
47		88.9		49.8		0.0		28.7
48		26.0		11.4		0.0		50.9
49		92.1		39.4		0.0		33.3
50		67.7		46.4		0.0		27.2
51		81.7		44.6		0.0		36.6
52		31.5		26.5		1.9		37.2
53		68.2		42.1		0.0		37.6
54		88.1		14.6		7.1		23.8
55		0.0		45.8		0.0		28.1
56		5.0		61.3		0.0		21.6
57		86.2		73.1		8.1		9.2
58		38.1		33.4		25.8		30.1
59		78.2		54.0		6.2		24.9
60		57.0		40.5		13.4		33.5
61		58.8		2.9		8.7		39.9
62		61.7		11.9		33.8		45.1
63		60.9		16.6		11.3		37.1
64		82.1		7.0		6.5		60.8
65		88.9		2.9		0.0		20.4
66		8.0		3.9		92.0		69.4
67		37.3		2.6		22.8		45.7
68		7.0		9.5		42.9		53.8
69		59.1		17.0		0.0		41.8
70		12.4		23.7		34.7		23.6
71		0.0		1.7		43.6		19.2
72		0.0		0.0		53.9		43.4
73		69.2		11.0		14.6		42.8
74		38.7		16.4		53.1		55.1
75		79.5		11.5		1.9		30.9
76		76.6		23.2		0.5		44.7
77		38.6		42.1		28.1		14.1
78		69.7		24.5		8.9		47.6
79		10.5		5.1		57.4		62.1
80		5.0		10.6		95.0		53.6
81		9.0		28.8		90.9		43.4
82		34.2		8.7		43.9		61.8

(continued)

Appendix D Table 11. (continued)

Sector Number	:	(1)	:	(2)	:	(3)	:	(4)
83	:	6.8	:	1.1	:	70.4	:	58.4
84	:	3.6	:	2.4	:	96.3	:	69.0
85	:	7.1	:	6.3	:	92.8	:	44.5
86	:	21.4	:	27.4	:	76.2	:	36.2
87	:	13.5	:	6.8	:	85.0	:	50.7
88	:	54.5	:	17.0	:	11.7	:	32.7
89	:	56.8	:	12.2	:	28.8	:	24.9
90	:	13.3	:	17.6	:	51.0	:	84.4
91	:	27.4	:	1.8	:	15.0	:	84.4
92	:	88.7	:	9.3	:	2.5	:	34.8
93	:	1.5	:	17.9	:	93.5	:	48.4
94	:	20.8	:	12.7	:	0.0	:	45.3
95	:	31.4	:	16.0	:	62.2	:	50.0
96	:	14.4	:	24.4	:	25.0	:	29.8
97	:	41.7	:	25.6	:	34.8	:	25.1
98	:	6.9	:	30.2	:	56.5	:	48.4
99	:	16.9	:	10.5	:	81.4	:	54.5
100	:	14.1	:	11.8	:	77.3	:	65.6
101	:	7.0	:	11.7	:	84.4	:	68.0
102	:	0.0	:	1.4	:	63.6	:	78.2
103	:	0.0	:	1.3	:	79.2	:	70.1
104	:	0.0	:	21.6	:	98.0	:	72.3
105	:	86.1	:	2.0	:	0.6	:	75.2
106	:	13.5	:	11.7	:	4.9	:	59.2
107	:	35.2	:	1.6	:	0.1	:	76.6
108	:	5.3	:	25.5	:	78.5	:	56.5

Appendix D Table 12. Sales and taxes to state and local government sectors -- North Central Region of Texas, 1967.

Number	(1) Sales to local government as percent of gross output	(2) Taxes to local government as percent of gross outlay	(3) Sales to state government as percent of gross output	(4) Taxes to state government as percent of gross outlay
1	0.0	1.8	0.0	0.1
2	0.0	2.0	0.0	0.1
3	0.0	1.4	0.0	-
4	0.0	1.8	0.0	0.1
5	0.0	-	0.0	-
6	0.0	2.2	0.0	0.1
7	0.0	2.8	-	0.1
8	0.0	0.3	0.0	0.5
9	0.0	0.2	0.0	0.3
10	0.0	0.5	0.0	1.9
11	0.0	0.1	0.0	2.0
12	0.0	0.2	0.0	0.2
13	4.5	0.1	0.0	0.2
14	0.0	0.1	0.0	0.5
15	0.6	0.2	13.0	0.1
16	0.1	0.1	0.2	0.4
17	0.0	-	0.0	0.1
18	0.0	0.2	0.2	0.2
19	0.0	0.2	-	0.2
20	0.0	0.2	0.1	0.2
21	0.0	0.3	0.2	0.5
22	0.0	0.3	0.3	0.5
23	-	0.1	-	0.3
24	0.0	0.1	0.2	0.4
25	0.9	0.1	0.4	0.3
26	0.0	0.3	0.2	0.2
27	0.0	0.4	-	0.1
28	0.0	0.5	0.1	0.2
29	0.1	0.3	0.2	0.3
30	-	0.2	0.1	0.1
31	0.1	0.1	0.1	0.4
32	0.0	0.1	2.7	4.0
33	0.0	0.3	0.2	0.2
34	0.0	0.1	0.1	0.1
35	0.0	-	0.0	0.7
36	0.8	0.3	0.7	0.9
37	-	0.1	-	0.2

(continued)

Appendix D Table 12. (continued)

Sector Number	(1)	(2)	(3)	(4)
38	-	0.2	0.1	0.2
39	0.0	0.1	-	0.4
40	0.0	0.2	-	0.4
41	0.0	0.2	0.0	0.2
42	0.0	0.1	0.1	0.6
43	0.0	0.1	-	0.3
44	0.0	0.1	0.0	-
45	0.0	0.3	0.1	0.4
46	0.0	0.2	0.5	0.3
47	0.0	0.2	0.0	0.2
48	0.0	0.3	0.1	0.4
49	0.0	0.1	0.1	0.2
50	0.0	-	-	0.2
51	0.5	0.1	0.2	0.4
52	0.0	0.2	0.1	0.2
53	-	0.2	0.1	0.2
54	0.0	0.1	-	0.4
55	0.0	0.3	0.0	0.4
56	0.0	-	-	0.3
57	-	-	0.0	0.4
58	0.0	0.1	0.0	0.7
59	0.0	0.2	0.1	0.4
60	0.3	0.3	0.1	0.7
61	0.2	0.9	-	0.2
62	0.0	0.2	0.0	2.0
63	0.0	0.2	-	3.3
64	-	-	-	0.1
65	0.0	1.4	0.0	1.5
66	0.0	0.2	0.0	0.1
67	0.0	1.2	0.4	0.7
68	0.4	2.3	0.8	2.6
69	0.0	0.5	0.0	0.3
70	0.1	1.9	0.1	1.6
71	1.0	3.1	0.2	2.1
72	-	0.0	0.2	0.0
73	0.0	0.3	0.0	0.2
74	0.0	0.2	0.0	0.6
75	0.0	1.5	0.0	2.2
76	0.0	0.3	0.1	0.5
77	2.6	1.0	0.1	0.4
78	0.4	0.4	0.1	0.7
79	0.0	1.9	0.0	0.9
80	0.0	1.5	0.0	0.7
81	0.0	0.2	0.0	0.5

(continued)

Appendix D Table 12 (continued)

Sector Number	:	:	:	:	:	:
	(1)		(2)		(3)	(4)
82	0.1		0.3		0.0	0.6
83	-		0.8		-	1.7
84	0.0		0.2		0.0	0.3
85	0.0		0.5		0.0	0.3
86	-		0.1		0.0	0.3
87	0.0		0.6		-	0.5
88	0.5		0.5		0.0	0.3
89	0.4		0.1		-	4.5
90	0.1		2.6		0.2	1.5
91	-		0.1		0.2	0.2
92	-		0.2		0.0	1.4
93	0.0		0.5		0.0	2.9
94	0.2		0.9		-	0.7
95	0.0		0.9		-	1.2
96	2.0		0.4		0.6	1.3
97	-		0.4		-	3.3
98	0.0		0.2		0.2	0.3
99	0.0		0.6		0	2.6
100	0.0		0.0		-	-
101	0.0		0.1		0.0	1.1
102	0.0		0.0		0.0	0.0
103	0.0		-		0.0	0.0
104	0.0		0.3		0.0	1.4
105	0.8		0.1		-	0.2
106	0.1		0.5		-	0.4
107	2.2		0.5		-	1.0
108	0.0		0.3		0.0	0.5

Appendix D Table 13. Sales to federal government and capital formation sectors and taxes to federal government -- North Central Region of Texas, 1967.

Sector Number	(1) Sales to federal government as percent of gross output	(2) Taxes to federal government as percent of gross outlay	(3) Sales to capital formation as percent of gross output
1	51.1	0.7	0.0
2	12.0	0.6	0.0
3	20.4	1.3	0.0
4	1.8	0.6	0.0
5	0.4	0.1	0.0
6	0.0	0.6	0.0
7	2.3	0.3	0.0
8	0.0	4.1	0.0
9	0.0	2.2	0.0
10	0.0	2.0	0.0
11	0.0	1.9	0.0
12	0.0	4.8	100.0
13	1.1	1.7	93.9
14	0.0	2.3	100.0
15	1.2	10.2	84.4
16	1.0	1.8	0.0
17	1.5	1.1	0.0
18	7.9	5.3	0.0
19	6.8	2.8	0.0
20	2.9	1.3	0.0
21	0.2	4.0	0.0
22	0.0	6.4	0.0
23	0.0	5.6	0.0
24	5.3	2.8	0.0
25	3.1	3.1	2.1
26	0.8	2.2	0.0
27	2.0	4.7	0.0
28	0.0	8.9	0.0
29	0.1	3.3	0.0
30	0.1	11.7	0.0
31	1.6	4.5	0.0
32	14.1	7.1	0.0
33	4.0	1.5	0.0
34	3.9	2.6	0.0
35	0.0	3.7	0.0
36	1.3	3.7	0.0

(continued)

Appendix D Table 13. (continued)

Sector Number	:	(1)	:	(2)	:	(3)
37		0.1		5.7		0.0
38		1.5		2.7		8.2
39		0.0		6.3		2.8
40		0.0		3.6		1.9
41		0.0		1.4		0.0
42		0.0		4.4		0.0
43		-		6.2		4.9
44		0.0		7.8		0.0
45		6.3		5.7		0.8
46		0		7.7		11.7
47		0.0		3.5		8.8
48		0.2		10.8		56.5
49		0.2		6.9		4.1
50		0.1		5.8		4.5
51		1.7		1.1		8.0
52		5.6		5.1		5.0
53		20.6		4.0		0.0
54		0.1		6.8		0.0
55		99.8		6.1		0.0
56		16.5		3.1		0.0
57		0.1		4.9		3.2
58		0.0		2.7		35.4
59		4.6		4.9		0.5
60		0.8		5.2		12.2
61		2.5		6.0		1.9
62		1.3		5.9		0.0
63		3.4		2.8		2.3
64		4.0		8.6		0.4
65		0.0		12.3		0.0
66		0.0		0.8		0.0
67		0.0		5.0		0.0
68		3.0		17.9		0.0
69		0.0		14.1		0.0
70		0.9		7.6		0.0
71		1.2		15.7		0.0
72		5.3		0.7		0.0
73		0.0		11.4		6.8
74		0.0		4.8		0.0
75		5.8		4.9		0.0
76		0.0		9.9		12.9
77		2.3		8.9		0.0
78		0.2		6.6		1.3
79		0.0		7.2		0.0
80		0.0		7.2		0.0
81		0.0		1.9		0.0

(continued)

Appendix D Table 13 (continued)

Sector Number	:	:	:	:
	(1)		(2)	(3)
82	0.0		5.5	8.8
83	-		5.4	0.0
84	0.0		4.2	0.0
85	0.0		11.2	0.0
86	0.0		2.7	0.0
87	0.0		6.4	0.0
88	0.0		5.1	0.0
89	0.1		2.6	0.0
90	0.0		2.9	0.0
91	3.2		3.4	0.0
92	0.0		2.0	0.0
93	0.2		5.4	0.0
94	0.1		4.7	0.0
95	-		6.0	0.0
96	1.4		8.4	0.0
97	-		1.5	0.0
98	0.5		1.8	0.0
99	0.0		4.9	0.0
100	0.1		1.6	0.0
101	0.0		3.7	0.0
102	8.4		0.2	0.0
103	8.9		1.0	0.0
104	0.0		1.8	0.0
105	-		3.6	0.0
106	0.0		1.9	0.0
107	0.4		3.6	0.0
108	0.0		1.2	0.0