Historical Industry Economic Accounts in the United States: A Full Integration

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Abstract

This paper will present (soon-to-be released) historical industry economic account (IEA) statistics, including input-output and GDP by industry measures, prepared by the U.S. Bureau of Economic Analysis (BEA). These statistics mark the first time that BEA's historical industry economic accounts (1947-1996) have been prepared in a fully integrated input-output (I-O) framework, including full consistency with published national income and product account statistics. The paper will describe the methodology used to develop the historical statistics, as well as an analysis of the results. This analysis will focus on both revisions to historical GDP by industry statistics, as well as a review of newly available historical I-O account time series. Several notable improvements were incorporated with the most recent comprehensive revision of the IEAs, including the recognition of research and development expenditures as capital. Analyzing the historical impact of these improvements for the first time in an I-O framework will bring a unique perspective that will likely spur additional future research.

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1. Introduction

Beginning with the release of the 2007 benchmark I-O accounts, the U.S. industry economic accounts (IEAs) and the national income and product accounts (NIPAs) are fully integrated and consistent with one another for the first time.¹ These fully integrated statistics were first released on January 23, 2014 by the U.S. Bureau of Economic Analysis (BEA) as part of the 2013 comprehensive revision of the IEAs and spanned the years 1997-2012.² Within the IEAs, this marks the first time that the benchmark I-O accounts are fully integrated with the annual time series of both the input-output accounts and the GDP by industry accounts. The IEAs were subsequently updated November 13, 2014 to reflect results of the 2014 flexible annual revision, which spanned the years 1997-2013.³

The benefits of fully integrated benchmark I-O accounts, annual industry accounts and NIPA statistics are numerous. For example, the benchmark I-O accounts establish both levels and commodity composition of GDP final use categories. This provides critical information for estimating NIPA GDP (by extrapolation) for periods following benchmark years. If the benchmark I-O account is inconsistent with the published NIPA statistics, then the accuracy of the extrapolated NIPA estimates may suffer. The integration also allows for a higher degree of consistency among the NIPAs and IEAs which enables data users the ability to track time series trends in a NIPA final expenditure category at a detailed commodity level in benchmark years and at a slightly higher level of commodity aggregation for nonbenchmark years. Users interested in more detailed statistics on outputs, inputs, and value added at the industry level will be able to crosswalk between a time series of benchmark statistics and a slightly higher level of industry aggregation for non-benchmark years.

The next step in this full integration effort is to develop fully integrated historical IEA statistics, which BEA has recently completed. Preliminary historical annual estimates for GDP by industry and the I-O accounts have been developed in a fully integrated IEA-NIPA framework to effectively create a consistent set of industry account statistics spanning the years 1947-2013. In this paper, we will provide a brief summary and background of existing historical industry accounts statistics, then describe the methodology used to develop the revised, fully integrated historical statistics, and conclude with an analysis of the results. This analysis will focus on both revisions to historical GDP by industry statistics, as well as a review of newly available historical I-O account time series. Several notable improvements were incorporated with the most recent comprehensive revision of the IEAs, including the recognition of research and development expenditures as capital. Analyzing the historical impact of these improvements for the first time in an I-O framework will bring a unique perspective that will likely spur additional future research.

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¹ For additional details, see Erich H. Strassner and David B. Wasshausen, "Preview of the 2013 Comprehensive Revision of the Industry Economic Accounts," SURVEY 93 (June 2013): 19-33.

² For additional details, see Donald D. Kim, Erich H. Strassner, and David B. Wasshausen, "Results of the Comprehensive Revision, Revised Statistics for 1997–2012," SURVEY 94 (February 2014): 1-18.

³ For additional details, see Thomas F. Howells and Edward T. Morgan, "Initial Statistics for the Second Quarter of 2014; Revised statistics for 1997-2013," SURVEY 94 (December 2014): 1-12.

2. Background

Benchmark I-O accounts are available on BEA's website beginning with the year 1947 and are generally available every five years--for years ending in "two" and in "seven." However, these benchmark I-O accounts are not consistent with one another. Definitional and statistical improvements introduced in the benchmark I-O accounts have not been carried backward to previously published benchmark tables. However, beginning with the 2007 benchmark I-O accounts, BEA will maintain a consistent time series of these important benchmark I-O accounts. For example, when BEA publishes a newly available 2012 benchmark I-O account (circa 2018), the 2007 benchmark I-O account will be revised to reflect definitional and classification-related improvements that were incorporated into the 2012 benchmark I-O account. Successive benchmarks will include revising benchmark I-O accounts beginning with the 2007 Benchmark I-O.

Annual GDP by industry statistics are available on the BEA website, on a North American Industry Classification System (NAICS) basis, also beginning with 1947. The estimates are distinctly separated into two periods: 1) 1947-1997, and 2) 1997-forward. This break in 1997 reflects the fact that 1997 is the first year that the U.S. Economic Census data were collected on a NAICS basis; previously the data had been collected on a standard industrial classification (SIC) basis. Previously published SIC based estimates were first converted to a NAICS basis in 2004, covering years 1987-1997; the remaining historical period (1947-86) were converted in 2005.⁴

Input-output (I-O) accounts have been prepared by BEA at regular intervals beginning with the 1958 table and have been an integral part of the benchmarking of the national economic accounts. Benchmark tables are available for 1947, 1958, 1963, 1967, 1972, 1977, 1982, 1987, 1992, 1997 and 2002. In 1972 BEA began the preparation of annual I-O tables, which were updates of the most recently available benchmark table. The first annual table was prepared for 1966 and for every year after that with the exception of 1988-1995. Annual input-output tables are available on the BEA website beginning with 1997. Prototype historical (pre-1997) annual input-output tables have been developed previously, but they were never integrated with the published historical GDP by industry statistics.

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⁴ For additional details, see Robert E. Yuskavage and Yvon H. Pho, "Gross Domestic Product by Industry for 1987–2000: New Estimates on the North American Industry Classification System," SURVEY 84 (November 2004): 33-41, and Robert E. Yuskavage and Mahnaz Fahim-Nader, "Gross Domestic Product by Industry for 1947–86: New Estimates Based on the North American Industry Classification System," SURVEY 85 (December 2005): 70-80.

⁵ The 1947 table was originally prepared by the Bureau of Labor Statistics. BEA revised the 1947 table to be consistent with the national income and product accounts and with the definitions of BEA's 1958 I-O table.

⁶ Annual I-O tables were discontinued between 1988 and 1995.

3. Methodology

The preparation of the time series of I-O tables used a five step process. First, the 1947-92 benchmark tables were updated to incorporate major definitional changes introduced during NIPA comprehensive revisions through the 2010 comprehensive revision. Second the benchmark tables were converted to a 2002 NAICS industry and commodity basis to be consistent with the available time series of annual I-O and GDP by industry accounts as of May, 2010. Third, annual updates of the benchmark tables were prepared for all years between benchmarks. Fourth, the 2002 NAICS time series of annual I-O accounts for 1947-1996 was converted to a 2007 NAICS basis. Fifth, the major definitional and statistical improvements from the 2013 comprehensive revision of the IEAs were incorporated.

The benchmark accounts between the years 1947 and 1992 included industry descriptions that remained similar over time despite changes in the SIC over this time period. Yet, these tables were not comparable because the benchmarks were not updated to reflect changes in definitions and other statistical revisions that were incorporated into the NIPAs. Consistency of these tables can be thought of as having three distinct periods: 1947 table through the 1967 tables remained relatively consistent in definition through the publication of industry-by-industry "transactions" tables⁷; 1972-1982 through the adoption of the United Nations recommended Make-Use format and tabulation on the 1972 SIC; and 1987 and 1992 tabulated on the 1987 SIC.

3.1 Update of historical benchmark tables to reflect consistency with NIPAs

The historic benchmark I-O accounts were made consistent in definition and statistically with the May 2010 release of the IEAs. To ensure consistency of final expenditures at the most detailed level possible, "bridge" tables between the I-O accounts and the published NIPA category detail for personal consumption expenditures (PCE) and private fixed investment in equipment and software (PES) were required. PCE bridge tables were available for 1967-1997 and PES bridges for 1972-1997. Bridges for other years were back-casted. Bridges for all years were modified to follow a consistent structure across all years that matched published NIPA data. Major definitional and statistical changes introduced into these tables included:

- Government hospitals were moved out of government to the hospitals industry
- Government treated as a producer selling services to industries and households
- Statistical revisions to autos and trucks
- Statistical revisions to housing and housing services
- Changes to the output of insurance and banking
- Statistical revisions to non-profits

⁷ The tables showed the total supply of goods and services flowing between industries and final uses. The industry columns included production inputs plus comparable imports as well as secondary products of other industries that were primary to the industry. The industry rows showed the distribution of the total supply to industries and final uses. The row sum and the column sum for respective industries were identical.

⁸ For additional details, see Matthew M. Donahoe, Edward T. Morgan, Kevin J. Muck, and Ricky L. Stewart, "Annual Industry Accounts: Advance Statistics on GDP by Industry for 2009 and Revised Statistics for 1998–2008, Comprehensive Revision," SURVEY 90: 14-20.

Capitalization of purchased and own-account software

3.2 Conversion to 2002 NAICS

The conversion of benchmark I-O accounts from SIC to NAICS required concordances based on the definitions and content of those industries and commodities for the respective year. However, the only available concordance between SIC and NAICS was for the year 1997. This concordance was updated to capture changes in industry structure over time by aggregating the most detailed SIC-based benchmark data available to a roughly 3-digit NAICS level of detail. The conversion of make tables focused primarily on conversion of primary production with modification made after to adjust for secondary output. The conversion of the use tables relied on a two-step process: detailed inputs that represented greater than 75 percent of industry output were assigned directly to the converted NAICS output from the make table; inputs that reflected less than 75 percent of the industry output were split into two or more related industries. These tables were then rebalanced to historical GDP by industry controls for the respective benchmark years between 1947- 1997 and to available NIPA final expenditure detail for each period using a bi-proportional scaling procedure.

3.3 Annual updates of the benchmark accounts.

The benchmark Make and Use tables were interpolated to develop a series of unbalanced I-O tables between benchmark tables spanning the period 1947 through 1997. A set of indicators were developed to extrapolate industry and commodity output, intermediate inputs and final expenditures. Table A provides a summary list of indicators by industry. The modified Denton proportional first difference method was used for interpolation. Unbalanced Use tables were subject to adjustments to satisfy historical GDP by industry and NIPA final expenditure controls through the use of a bi-proportional scaling procedure.

3.4 Conversion to 2007 NAICS

The conversion of the historical I-O accounts from a 2002 NAICS basis to a 2007 NAICS basis affected three sectors: 1) Information (NAICS 51), 2) Professional, Scientific, and Technical Services (NAICS 54), and 3) Administrative and Support and Waste Management and Remediation Services (NAICS 56). Table B presents detailed 2002 NAICS industries matched to 2007 NAICS for the affected industries.

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⁹ The downside to this method is that 100 percent of the original input structure was not converted to a NAICS basis. However, the upside to this approach was it resulted in a more manageable input structure to review for consistency over time.

¹⁰ In the case of exports, imports and change in business inventories the interpolated values were scaled to the NIPA published levels. Exports and imports were adjusted on a net exports basis (extrapolated net export total was adjusted to the NIPA level by scaling both exports and imports excluding duty and the rest of the world adjustment).

Beginning with the make table, output adjustments were constructed using a published concordance from the 2007 NAICS manual as well as analyst judgment.¹¹ Analyst judgement based on industry expertise and is a critical component in this step because the working-level detail in the historical I-O tables is notably higher than the working-level detail for 1997-forward. As a result, adjustments in the historical period reflect anecdotal information combined with industry expertise.

For example, one of the more notable reclassifications affected internet service providers (ISPs) within the information sector. Under 2002 NAICS, subsector 518 was defined as "Internet Service Providers, Web Search Portals, and Data Processing Services," but was redefined under 2007 NAICS to "Data Processing, Hosting and Related Services." ISPs under 2007 NAICS were reclassified to subsector 517, "Telecommunications." This change reflects the fact that in the early 2000's, ISPs were largely provided by dedicated ISPs using dial-up technology (e.g. AOL, Prodigy, and Compuserve). However, by the latter half of the decade, ISPs were largely provided by telecommunications companies using broadband technology. The adjustment was wedged to zero in 1992 based on the fact that ISPs were not separately identified in the 1992 benchmark and likely did not exist then.

The second phase of this step was to adjust the affected transactions in the use table. Several options were considered, ranging from simply incorporating the adjustments solely into the gross operating surplus to distributing the adjustments across all elements of the use table. The preferred method was to preserve the existing I-O ratio and to distribute the adjustments to that industries' intermediate inputs and the gross operating surplus. Preserving the I-O ratio after adjusting output provided a "control" for total intermediate inputs, with the gross operating surplus derived residually. Initial, prebalanced, commodity distribution of the intermediate inputs was estimated using existing shares (i.e. All commodities were multiplied by a single scalar.)

3.5 Update for Definitional and Statistical Revisions from the 2013 Comprehensive Revision

The final step in this process is to update the converted 2007 NAICS based I-O statistics to reflect the major definitional and statistical improvements from the 2013 comprehensive revision (CR) of the IEAs. Among the most significant improvements incorporated in the 2013 CR was the recognition of research and development (R&D) expenditures as capital. Other notable improvements that were incorporated into the historical estimates include the capitalization of entertainment, literary, and other artistic originals; the expansion of the capitalization of the ownership transfer costs of residential fixed assets; and the use of an improved measure of transactions for defined benefit pension plans. ¹²

¹¹ For additional details on the concordance, see "North American Industry Classification System, United States, 2007." < http://www.census.gov/eos/www/naics/>

¹² For additional detail on the definitional changes, see Erich H. Strassner and David B. Wasshausen, "Preview of the 2013 Comprehensive Revision of the Industry Economic Accounts," SURVEY 93 (June 2013): 20–22.

Updating the historical time series to include the capitalization of R&D expenditures required several types of adjustments across many industries. R&D capital includes both R&D developed in-house (aka, own-account) as well as purchases of R&D.¹³ We briefly describe the process for developing adjustments for the historical period for each below:

For own-account R&D, equal adjustments are made to both output and value added; the recognition of own-account investment has no impact on intermediate inputs. Own-account estimates for R&D, including the historical estimates that are published as part of the NIPAs, were constructed at a pseudo-industry level. For example, in NIPA Table 5.6.5., "Private Fixed Investment in Intellectual Property Products by Type," R&D type is defined by the industry that "owns" the R&D. Moreover, it is reasonable to assume that own-account R&D owned by "Pharmaceutical and medicine manufacturing" was also performed by the same industry. Unfortunately, the industry-level detail at which these estimates were developed do not always align with the industry level detail that we are working with in the historical I-O time series. For example, estimates of own-account R&D for "other" manufacturing needed to be disaggregated further to broadly match 3-digit 2007 NAICS detail.

For purchased R&D, conceptually no adjustments to output should be necessary however in reality there is not enough existing output to adequately cover the newly recognized final demand. As a result, additional output was imputed for the R&D producing industry (NAICS 5417) for the historic period. Adjustments are also necessary for value-added to reflect the reclassification of purchased R&D from an intermediate input to final demand. These adjustments were loaded directly on to the existing gross operating surplus, reflecting a return to the R&D capital. Unlike own-account R&D, the industry allocation of the imputed gross operating surplus for purchased R&D is allocated to purchasing industry – not the producing industry. Information from NIPA Table 5.6.5 and BEAs fixed assets accounts was used to make these historical adjustments for purchased R&D.

The capitalization of entertainment, literary, and other artistic originals was somewhat unique because all of this newly recognized capital was considered "own-account" investment. The nature of these assets and the methodology used to estimate them facilitated the adjustments to output and value added in the make and use tables. For example, the recognition of "Theatrical movie originals" adds \$10.5 billion to both output and value added for the industry group "Motion Picture and Sound Recording Industries."

The expansion of the capitalization of the ownership transfer costs of residential fixed assets had no effect on gross output; rather these costs were reclassified from intermediate expenses to fixed investment with a resultant increase in value added.

¹³ For additional details see Marissa J. Crawford, Jennifer Lee, John E. Jankowski, and Francisco A. Moris, "Measuring R&D in the National Economic Accounting System," SURVEY 94 (November 2014): 1-15.

The final adjustment to the historical estimates was to change the recording of the transactions associated with defined benefit pension plans from a cash-accounting basis to an accrual-accounting basis. These improvements had been published historically on an SIC basis as part of the comprehensive revisions of the National Economic Accounts. These improvements for compensation were converted from an SIC basis to a 2007 NAICS using a series of conversion matrices that had been developed previously for constructing historical NAICS-based GDP by industry and incorporated directly into the historical use tables. The final step after all necessary adjustments have been made to output and value added is to balance the use table using the adjusted output and published NIPA final demand as control values.

4. Preliminary Results

Preliminary results for fully integrated I-O and GDP by industry statistics are available beginning with 1963 and are presented in tables 1-5. ¹⁴

4.1 GDP by Industry Revisions

As expected, revisions to the historical (pre-1997) current-dollar GDP by industry statistics are largely concentrated in industries affected by the definitional improvements incorporated into the historical time series. Preparing revised historical GDP by industry statistics in a fully integrated I-O framework did not appear to introduce revisions into the time series. Table 2 shows revisions in level for value added by industry for years 1963-1996. Value added for all private industries was revised up \$181.0 billion in 1996 – with over half the revision stemming from the manufacturing sector. The information sector was the second leading contributor to the private industries revision – contributing \$53.5 billion. The professional, scientific, and technical services sector was the next leading contributor, with an upward revision of \$7.7 billion in 1996. The government sector was also impacted by select definitional improvements (R&D and pensions) and as a result also showed some notable revisions in the historical period; federal general government was revised up \$43.0 billion and state and local general government was revised up \$39.7 billion. These revisions in level, relative to the sum of all value-added, are largely stable going back in time.

Table 4 presents revisions to current-dollar shares of value-added by industry. Private industries shows an average downward revision of 0.9 percentage point, offset by an average upward revision of 0.9 percentage point to government, reflecting upward revisions to Federal general government. Within general government, revisions stemming from the improved treatment of pensions are somewhat lumpy and vary in sign. The recognition of R&D expenditures as capital resulted in upward revisions to government value-added in all years. Within the private sector, wholesale trade, retail trade and real estate were the major sectors that offset the upward revision to government's share of GDP. While

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¹⁴ The historical time series begins with 1947, however, results for the period 1947-62 were not available in time for this preliminary draft.

these sectors showed little revision, they are among the largest within the private sector. Manufacturing's share of GDP was revised up an average of 0.4 percentage point over the period 1963-1996. Within manufacturing, it is not surprising that the R&D intensive industries drove these revisions: computers and electronic products, transportation, and chemical manufacturing. The information sector was revised up an average of 0.3 percentage point, reflecting the capitalization of entertainment, literary and other artistic originals. The production of movies, long-lived television, music and books are all classified in the information sector.

4.2 Newly Available Input-Output Statistics

One of the key features of this project is that the revised historical GDP by Industry statistics have been prepared in a fully integrated I-O framework. As a result, BEA has a time series of input-output accounts that are fully consistent with NIPA GDP and IEA GDP by industry. Several useful metrics fall out of the input-output accounts, including direct and total requirements, import matrices, and I-O ratios. Make tables will be available in producer' valuation; Use tables will be available in both producer and purchaser' valuation. In this preliminary report, not all of these metrics have been fully developed but we do expect to include these in subsequent updates.

4.2.1 Input-Output Ratios

I-O ratios can be an important indicator of a number of factors. For example, a falling I-O ratio may be an indication that processes are becoming more efficient and the industry is able to produce more with less. Nominal I-O ratios are also subject to swings in prices for inputs and outputs and as a result tend to be more volatile than volume-based I-O ratios. Preliminary analysis shows a number of industry groups with volatile, nominal I-O ratios. I-O ratios for the sum of all private industries are relatively stable – averaging 0.47 over the period 1963-1996. The ratio peaks in the early 70's and then again in 1980, corresponding to the OPEC I and OPEC II oil crises. I-O ratios for the government sector are notably lower – averaging 0.28 over the same period and ranging from 0.23 to 0.31. 15

I-O ratios for the private goods-producing industries were fairly stable over the historical period. Manufacturing I-O ratios averaged 0.64 and ranged from 0.61 to 0.68. Other transportation equipment had the widest range, spanning 0.47 to 0.68. Here, the I-O ratio trends up gradually until 1981, then drops by about .20 points over the next three years, followed by slow, stable growth.

I-O ratios for the private services-producing industries were more volatile than those of the goods-producing industries. For example:

 I-O ratios for computer systems design and related services ranged from 0.14 (1987) to 0.39 (1982) over the period 1977-1996. Here, the notable drop from 1982 to 1987 reflects decreases in purchases of information services and credit intermediation.

¹⁵ Lower I-O ratios for the government sector reflect the fact that government output is measured as the sum of expenses, including compensation paid which is by far the largest component of both value-added and output.

- The securities, commodity contracts, and investments I-O ratios also exhibited a wide range, jumping from 0.26 in 1977 to 0.61 in 1982, reflecting notable increases in purchases of real estate; miscellaneous professional, scientific, and technical services; and administrative and support services.
- I-O ratios for the utilities sector ranges from 0.28 (1986) to 0.54 (1979). The ratios are unusually high from the mid 70's to the early 80's, reflecting notable increases in expenditures for petroleum and coal products that are used in the production of utilities output.
- Credit intermediation I-O ratios also saw an usual trough in 1981 (0.21) reflecting a sizable drop in purchases credit intermediation services as well as miscellaneous professional, scientific, and technical services.

These are just a few of the many interesting observations that fall out of this newly available, expansive I-O dataset. In the next phase of this effort, real (adjusted for inflation) I-O ratios will become available for additional types of analysis.

4.2.2 Import shares

Tracking import shares—the ratio of imports to commodity output--over time can also be an important indicator of a number of interesting factors. For example, changes in import shares of selected commodities combined with information on industry purchases of these selected commodities may tell us something about an industries propensity to outsource certain aspects of production. Preliminary analysis shows a number of commodities with interesting import share trends:

- Import shares for manufactured durable goods increases gradually over the historic period, rising from percent 3.1 in 1963 to 27.0 percent in 1996. The increases in these shares were widespread among the durable goods components, with increases in computer and electronic products; electrical equipment, appliances, and components; and motor vehicles, bodies and trailers, and parts. Of note, import shares for motor vehicles, bodies and trailers, and parts begins to fall in the early 1990's.
- Mining commodities also saw notable growth in the import share over the historic period, increasing from 15.4 percent in 1963 to 49.1 percent in 1996. The nominal share of imported oil and gas peaked in 1977 at 93.1 percent, reflecting increases in prices stemming from oil shocks that occurred earlier in the decade and continued through the end of the decade. As supply increased, the nominal share of imported oil and gas fell through the mid-1980's; shares begin to ramp up and steadily increase thereafter.

¹⁶ Unfortunately, data on the use of imports by industries and final uses are not available from our statistical data sources. As a result, we assume that imports are used in the same proportion across all industries and final uses.

Again, these are just a few of the many interesting observations that fall out of this newly available, expansive I-O dataset and we encourage others to more fully explore the dataset as it becomes available.

5. Next Steps

In this paper we have presented preliminary, current-dollar results for fully integrated IEA time-series statistics, including input-output and GDP by industry data. We stress that these results are preliminary and plan to fine-tune these estimates as needed in the near future. Moreover, appropriate historical price indexes needed to be developed for both output and intermediate inputs in order to estimate real value added using double-deflation and to evaluate these measures in the context of the business cycles.

Table A.—Major Sources of Data Used as Indicators for Interpolation

Source	Description
Annual Survey of Manufacturers	A NBER researcher developed a time series of
	ASM value of shipments on a 1987 four digit SIC
	basis for the period 1958-1994. These SIC
	shipments were converted to a NAICS basis and
	used for extrapolation.
	http://www.nber.org/nberces/nbprod96.htm
	For 1947-1957 Census and ASM value of shipments
	data obtained and converted to NAICS for
	extrapolation of manufacturing.
Annual I-O accounts	Annual I-O tables were developed for the years
	1968-1987 at a summary I-O code level. These
	tables were converted to a NAICS basis using
	appropriate concordances. While conversion to
	NAICS was rough, the values provided reasonable
	extrapolators for some industries.
GDP by industry estimates of gross industry output	Industry output on a NAICS basis was estimated for
	1987-1997. These values were used as
	extrapolators for this period.
NIPA PCE and fixed investment estimates	For some commodities most of the supply flows to a
	set of PCE and or fixed investment categories. In
	these cases PCE/investment categories can served as
	extrapolators.
Statistical Abstract	Numerous series on industry production were
	available relatively consistently over the period.
NIPA foreign trade and Balance of Payments	NIPA Table 4.2.5. Exports and Imports of Goods
	and Services by Type of Product
	BEA Balance of Payments Table 1. U.S.
	International Transactions
Exports and imports of goods	A NBER researcher developed a time series of
	exports and imports on a 1987 four digit SIC basis
	for the period 1958-1994. These SIC trade data
	were converted to a NAICS basis and used for
	extrapolation of exports and imports of goods.
	These data are reported in the CD-ROMs "NBER
	Trade Database, Disk 1: U.S. Imports, 1972-1994,"
	and "Disk 3: U.S. Exports, 1972-1994," which can
	be ordered from the NBER at 617-868-3900 or by
	email at orders@nber.org

Table B.—2002 NAICS Matched to 2007 NAICS

2002 NAICS Code	2002 NAICS Title (and specific piece of the 2002 industry that is contained in the 2007 industry)	2007 NAICS Code	2007 NAICS Title
516110	Internet Publishing and Broadcasting	519130	Internet Publishing and Broadcasting and Web Search Portals
517110	Wired Telecommunications Carriers	517110	Wired Telecommunications Carriers
517211	Paging	517210	Wireless Telecommunications Carriers (except Satellite)
517212	Cellular and Other Wireless Telecommunications	517210	Wireless Telecommunications Carriers (except Satellite)
517510	Cable and Other Program Distribution	517110	Wired Telecommunications Carriers
517910	Other Telecommunications	517919	All Other Telecommunications
518111	Internet Service Providers - broadband Internet service providers (e.g., cable, DSL)	517110	Wired Telecommunications Carriers
518111	Internet Service Providers - Internet services providers providing services via client-supplied telecommunications connection	517919	All Other Telecommunications
518112	Web Search Portals	519130	Internet Publishing and Broadcasting and Web Search Portals
541612	Human Resources and Executive Search Consulting Services - executive search consulting services	561312	Executive Search Services

Note: 2007 NAICS codes in bold indicate pieces of the 2007 industry came from more than one 2002 NAICS industry; 2002 NAICS codes in italics indicate the 2002 industry split to two or more 2007 NAICS industries.

Table 1.-- Value Added by Industry, Millions of Dollars

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Private industries	541,692	581,880	632,446	691,837	726,847	792,224	855,802	895,522	970,686	1,068,240	1,199,347	1,298,672	1,415,051	1,583,905	1,771,155	2,013,477	2,260,182	2,452,869
Agriculture, forestry, fishing, and hunting	20,518	19,615	22,424	23,439	22,855	23,616	26,311	27,263	29,392	34,357	52,218	50,078	51,402	50,138	51,254	59,530	70,259	62,196
Farms)											43,533	50,726	60,103	51,368
Forestry, fishing, and related activities		_					<u> </u>		_						7,721	8,804	10,156	10,828
Mining	10,622	10,999	11,170	1 <mark>1,82</mark> 5	12,052	12,888	13,540	15,070	15,259	15,952	19,166	29,711	34,299	38,059	44,111	50,538	59,406	91,323
Oil and gas extraction	J 1	7/6))		A	<u> </u>	/		1	/	1 / /	<i></i>			24,600	28,012	33,308	59,668
Mining, except oil and gas											1 1/ /				14,710	16,500	19,708	20,937
Support activities for mining									()		\ V /				4,801	6,026	6,390	10,718
Utilities	14,046	14,956	15,594	1 <mark>6,7</mark> 15	17,559	1 <mark>9,03</mark> 6	20,433	21,692	24,670	27,019	28,966	30,290	38,520	42,979	47,575	52,127	53,782	61,054
Construction	27,656	30,317	33,283	36,626	38,216	41,823	46,712	49,490	54,458	60,144	68,141	72,996	73,772	84,386	93,083	110,131	125,326	131,905
Manufacturing	161,170	173,272	191,500	212,464	217,832	237,113	249,149	245,871	259,354	285,215	315,234	331,930	352,312	402,688	456,673	510,013	568,044	585,597
Durable goods	96,996	104,970	117,847	131,703	134,919	146,654	154,479	147,638	155,579	173,565	195,811	203,647	210,760	243,178	279,895	319,974	351,156	358,510
Wood products															10,620	12,937	14,211	11,993
Nonmetallic mineral products															15,078	17,575	19,032	18,525
Primary metals															32,143	38,971	43,701	42,445
Fabricated metal products															38,573	43,682	50,009	53,006
Machinery															49,064	56,171	62,333	66,927
Computer and electronic products															31,624	36,613	41,955	50,380
Electrical equipment, appliances, and components															19,216	21,497	23,634	25,012
Motor vehicles, bodies and trailers, and parts															42,911	46,557	44,962	33,994
Other transportation equipment															21,581	24,446	28,474	31,413
Furniture and related products	•••														7,867	9,145	9,366	10,411
Miscellaneous manufacturing	•••														11,216	12,379	13,481	14,403
Nondurable goods	64,174	68,303	73,652	80,761	82,912	90,459	94,670	98,233	103,775	111,650	119,423	128,283	141,552	159,510	176,778	190,039	216,887	227,087
Food and beverage and tobacco products	•					·	·							• •••	49,263	51,385	54,203	61,249
Textile mills and textile product mills															13,456	14,446	15,254	15,155
Apparel and leather and allied products															16,039	17,573	18,700	19,440
Paper products															18,612	20,323	22,974	24,006
Printing and related support activities	•••														10,464	11,869	13,757	13,944
Petroleum and coal products	•••														9,192	9,848	20,713	19,417
Chemical products															43,144	46,579	51,402	54,163
Plastics and rubber products															16,608	18,016	19,886	19,713
Wholesale trade	39,889	43,035	46,496	50,984	53,939	59,207	63,896	67,774	73,553	81,779	91,934	104,466	114,239	122,527	134,716	153,036	175,353	187,292
Retail trade	47,679	52,434	56,169	60,553	64,911	71,698	77,719	83,111	90,967	98,573	108,577	114,183	128,050	144,953	159,679	178,622	194,322	199,515
Transportation and warehousing	25,901	27,457	29,734	32,398	33,120	35,866	38,140	40,240	44,319	48,832	53,836	59,116	60,074	69,534	77,161	87,743	97,677	102,821
Air transportation															9,590	10,799	11,605	12,939
Rail transportation															15,399	16,975	18,846	20,323
Water transportation															2,434	2,762	3,253	3,503
Truck transportation															21,953	25,176	27,989	28,511
Transit and ground passenger transportation															4,462	4,712	5,059	5,843
Pipeline transportation	•••														2,860	3,710	4,668	5,075
Other transportation and support activities															15,574	17,840	19,876	20,261
Warehousing and storage															4,890	5,768	6,381	6,366
Information	23,438	25,213	27,463	30,275	32,367	35,254	38,411	41,230	44,609	49,939	54,514	58,901	65,387	74,716	84,057	96,313	107,634	118,908
Publishing industries (includes software)															16,796	19,080	21,930	22,644
Motion picture and sound recording industries															9,756	11,695	13,324	14,094
Broadcasting and telecommunications															53,270	60,561	66,608	75,464
Information and data processing services															4,235	4,978	5,771	6,706
Finance, insurance, real estate, rental, and leasing	89,328	95,707	102,662	110,458	118,796	1293458	142,236	152,963	169,951	185,527	204,486	225,020	249,817	274,717	306,747	352,006	395,906	449,497

Table 1.-- Value Added by Industry, Millions of Dollars

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Finance and insurance	21,978	24,130	26,355	29,036	32,338	36,240	40,881	43,971	48,516	52,895	56,632	64,262	73,444	80,214	94,759	112,417	124,802	137,440
Federal Reserve banks, credit intermediation, and related activities			-												49,588	58,758	67,988	72,916
Securities, commodity contracts, and investments				()											6,947	8,651	9,561	9,192
Insurance carriers and related activities	7 1			<u> </u>											37,576	44,066	46,184	53,697
Funds, trusts, and other financial vehicles			1	<u> </u>				\/	1						649	942	1,069	1,634
Real estate and rental and leasing	67,349	71,577	76,307	8 <mark>1,42</mark> 2	86,458	93,218	101,355	108,992	121,435	132,632	147,855	160,757	176,373	194,503	211,987	239,589	271,103	312,057
Real estate										f	\ \ //				193,811	218,416	246,587	283,474
Rental and leasing services and lessors of intangible assets		Į						/			\ V /				18,176	21,173	24,516	28,583
Professional and business services	28, <mark>1</mark> 45	30,839	33 ,79 <mark>1</mark>	3 <mark>7,87</mark> 0	40,759	4 <mark>4,30</mark> 6	48,8 <mark>03</mark>	52,402	56,775	63,123	71,816	79,317	87,207	98,612	115,299	133,280	153,960	175,238
Professional, scientific, and technical services	13,523	14,947	16,476	18,717	20,470	2 <mark>2,1</mark> 42	_24,707	27,135	29,571	33,054	38,069	42,070	46,439	52,091	61,803	71,438	83,834	97,168
Legal services					•••						1 /				17,398	19,190	21,785	23,897
Computer systems design and related services											<i>U</i>				4,992	6,112	7,479	8,856
Miscellaneous professional, scientific, and technical services															39,413	46,135	54,570	64,415
Management of companies and enterprises	9,079	9,802	10,621	11,658	12,228	13,390	14,268	14,683	15,753	17,179	18,963	20,616	22,748	25,692	28,981	32,966	36,154	39,862
Administrative and waste management services	5,544	6,090	6,694	7,496	8,061	8,773	9,828	10,584	11,451	12,889	14,784	16,631	18,020	20,829	24,515	28,877	33,972	38,209
Administrative and support services															20,132	23,810	28,561	32,665
Waste management and remediation services															4,383	5,067	5,411	5,543
Educational services, health care, and social assistance	17,960	19,914	21,702	24,414	27,682	31,216	35,806	40,465	44,949	50,563	56,484	63,486	73,293	82,852	92,508	104,622	118,443	134,298
Educational services	3,250	3,608	4,064	4,609	5,049	5,690	6,628	7,548	8,512	9,669	10,573	11,230	12,203	12,692	13,201	14,455	15,964	17,942
Health care and social assistance	14,709	16,306	17,638	19,805	22,633	25,526	29,178	32,917	36,437	40,894	45,911	52,256	61,091	70,160	79,307	90,167	102,479	116,356
Ambulatory health care services															38,177	43,011	48,136	54,064
Hospitals and nursing and residential care facilities															36,186	41,223	47,412	54,367
Social assistance															4,945	5,933	6,931	7,925
Arts, entertainment, recreation, accommodation, and food services	17,365	18,881	20,311	21,935	23,540	25,876	27,870	30,063	32,584	35,370	39,376	41,887	46,749	53,209	60,193	69,554	78,867	83,964
Arts, entertainment, and recreation	4,061	4,392	4,630	4,909	5,126	5,564	5,781	6,277	6,697	7,145	8,227	9,053	9,981	11,306	13,474	15,109	16,942	18,264
Performing arts, spectator sports, museums, and related activities															5,461	6,382	7,264	7,871
Amusements, gambling, and recreation industries															8,012	8,727	9,678	10,394
Accommodation and food services	13,304	14,489	15,681	17,026	18,414	20,313	22,089	23,787	25,887	28,225	31,148	32,834	36,768	41,904	46,719	54,445	61,925	65,700
Accommodation															13,204	15,910	18,317	19,467
Food services and drinking places															33,515	38,536	43,607	46,232
Other services, except government	17,976	19,241	20,148	21,882	23,219	24,867	26,777	27,889	29,846	31,847	34,599	37,290	39,930	44,534	48,099	55,960	61,205	69,260
Government	96,890	103,906	111,282	123,202	134,884	150,256	164,076	180,362	197,084	214,209	229,202	250,153	273,872	293,682	314,796	343,094	371,961	409,636
Federal	53,573	56,881	59,804	66,099	71,904	78,994	84,410	90,431	96,312	102,524	106,335	114,034	121,231	130,630	138,245	149,936	160,430	176,367
General government															123,634	133,544	142,539	157,323
Government enterprises															14,611	16,392	17,891	19,044
State and local	43,317	47,026	51,477	57,103	62,981	71,263	79,666	89,930	100,772	111,685	122,867	136,119	152,641	163,052	176,551	193,159	211,530	233,269
General government															163,523	178,797	196,439	217,282
Government enterprises															13,028	14,362	15,091	15,987
SUM	638,582	685,786	743,728	815,039	861,731	942,480	1,019,878	1,075,884	1,167,770	1,282,449 1	L,428,549 1	L ,548,825 1	L,688,923 1	,877,587	2,085,951	2,356,571	2,632,143	2,862,505

Table 1.-- Value Added by Industry, Millions of Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Private industries	2,757,343	2,852,624	3,112,238	3,473,731	3,732,168	3,935,988	4,175,654	4,503,891	4,850,471	5,113,379	5,250,519	5,562,544	5,870,849	6,264,713 (5,586,148	6,993,550	7,462,515
Agriculture, forestry, fishing, and hunting	75,671	71,701	57,282	77,065	76,981	74,139	79,355	78,733	91,757	96,153	88,007	98,669	90,517	105,344	90,656	113,576	108,547
Farms	64,952	60,412	44,93 <mark>4</mark>	64,151	63,703	59,891	62,043	61,386	73,945	77,781	70,372	79,858	71,272	83,594	68,402	92,639	88,136
Forestry, fishing, and related activities	10,719	11,289	12,34 <mark>8</mark>	12,914	13,278	14,248	17,312	17,347	17,812	18,372	17,635	18,811	19,245	21,750	22,254	20,937	20,411
Mining	122,201	119,265	103,314	10 <mark>7,68</mark> 2	106,900	70,630	73,325	74,243	78,793	88,520	79,546	73,602	74,595	76,344	76,930	90,710	95,752
Oil and gas extraction	82,316	78,379	71,084	7 <mark>2,83</mark> 5	73,699	44,504	47,7 <mark>08</mark>	42,982	47,801	55,734	46,040	42,324	43,289	42,061	42,756	55,112	55,787
Mining, except oil and gas	21,421	20,565	19 <mark>,45</mark> 4	2 <mark>1,40</mark> 7	20,019	1 <mark>8,46</mark> 3	18,7 79	2 <mark>2,76</mark> 0	23,093	23,645	23,770	23,632	22,285	25,388	25,234	25,869	26,554
Support activities for mining	18,464	20,32 <mark>1</mark>	12,77 <mark>7</mark>	1 <mark>3,44</mark> 0	13,181	<mark>7,66</mark> 3	6,8 <mark>39</mark>	8,502	7,899	9,141	9,735	7,646	9,021	8,895	8,940	9,729	13,411
Utilities	72,095	83,268	94,746	10 <mark>6,05</mark> 6	1 <mark>13,798</mark>	11 <mark>8,08</mark> 4	126,2 79	125,746	138,936	<mark>146,</mark> 100	154,296	160,525	164,969	172,591	176,127	174,634	170,850
Construction	133,359	131,177	139,473	160,612	177,531	197,922	211,133	228,212	241,372	246,239	230,316	235,343	252,772	280,540	297,199	322,194	347,140
Manufacturing	651,190	641,779	698,092	778,383	805,317	832,417	880,651	962,490	1,017,834	1,037,425	1,0 <mark>44,9</mark> 88	1,087,318	1,127,393	1,197,713	1,265,457	1,307,633	1,388,863
Durable goods	398,511	383,734	413,840	483,449	496,491	508,125	533,483	581,680	608,756	604,683	598,425	619,545	646,186	693,335	730,368	770,338	825,233
Wood products	11,225	10,143	13,734	15,130	15,336	17,704	19,762	19,785	20,641	19,672	18,737	19,772	22,037	24,569	25,557	25,179	26,580
Nonmetallic mineral products	18,399	16,211	19,825	22,751	24,472	26,986	25,297	26,527	27,354	26,596	24,344	27,521	28,262	32,208	34,142	34,582	40,294
Primary metals	47,827	34,416	30,280	36,370	31,741	33,151	33,054	41,132	44,647	41,145	37,902	38,957	39,990	44,271	48,698	47,149	49,623
Fabricated metal products	58,135	54,023	55,422	62,942	66,677	67,339	69,658	74,330	78,294	79,944	77,736	80,370	84,330	94,242	100,115	107,300	112,414
Machinery	74,532	67,420	62,677	69,372	69,690	65,095	69,678	80,559	88,135	89,288	83,220	85,108	86,802	91,417	97,638	100,127	106,427
Computer and electronic products	58,087	61,831	71,155	85,272	89,833	89,066	98,669	108,044	112,007	114,971	116,981	121,509	123,988	138,299	155,378	165,478	185,683
Electrical equipment, appliances, and components	27,596	25,065	27,883	31,721	33,106	34,104	36,106	37,808	41,649	41,960	40,879	41,823	43,604	46,791	46,111	46,600	50,041
Motor vehicles, bodies and trailers, and parts	43,043	40,780	52,647	67,477	70,621	72,630	71,485	76,503	75,583	64,393	64,331	76,624	89,811	104,190	104,734	108,312	112,288
Other transportation equipment	31,110	44,763	48,689	56,280	56,193	61,960	67,408	66,722	67,723	70,646	77,628	67,067	64,286	53,044	51,654	60,581	62,025
Furniture and related products	11,045	10,973	12,795	14,964	15,838	16,794	17,856	18,671	19,660	18,982	18,279	20,066	21,745	22,558	23,302	25,567	28,176
Miscellaneous manufacturing	17,512	18,109	18,732	21,170	22,984	23,295	24,511	31,598	33,063	37,084	38,388	40,729	41,331	41,747	43,041	49,463	51,682
Nondurable goods	252,680	258,046	284,252	294,934	308,826	324,292	347,168	380,810	409,079	432,742	446,563	467,773	481,207	504,378	535,089	537,295	563,630
Food and beverage and tobacco products	66,657	72,353	79,278	79,917	83,876	88,332	91,085	95,017	100,860	111,710	118,727	123,803	123,128	124,174	137,608	131,933	136,557
Textile mills and textile product mills	16,175	15,405	17,738	18,345	18,242	19,921	21,155	22,065	22,981	23,471	23,893	26,723	27,053	27,257	26,419	26,865	27,676
Apparel and leather and allied products	21,149	20,871	22,373	22,202	21,960	22,650	22,829	23,728	24,844	25,201	26,060	27,626	27,648	28,047	26,887	26,023	25,306
Paper products	26,236	27,648	29,211	32,856	34,158	36,315	39,376	45,576	48,266	47,423	46,872	47,762	48,825	52,002	62,462	58,270	55,202
Printing and related support activities	15,549	16,904	18,844	21,291	23,371	24,997	26,418	28,576	30,441	31,773	31,702	33,897	33,889	35,328	35,957	37,761	38,010
Petroleum and coal products	20,739	18,036	19,604	17,069	20,263	20,753	21,460	29,697	31,573	35,177	33,933	33,387	38,240	35,998	33,000	35,023	45,580
Chemical products	63,529	63,960	71,243	74,765	76,776	79,724	91,896	101,189	111,015	119,161	124,310	131,018	135,105	150,534	160,721	165,904	176,508
Plastics and rubber products	22,645	22,869	25,963	28,490	30,181	31,599	32,949	34,962	39,099	38,827	41,065	43,557	47,319	51,039	52,035	55,515	58,791
Wholesale trade	207,181	207,865	223,869	251,436	271,455	280,728	286,559	315,375	336,838	348,190	362,866	380,762	403,666	444,566	461,872	493,773	525,872
Retail trade	219,259	228,163	256,820	288,345	311,313	332,634	346,530	367,734	391,697	400,406	407,630	426,563	463,910	502,659	528,165	558,001	590,284
Transportation and warehousing	110,378	106,473	118,136	131,446	137,651	147,526	153,325	163,100	168,859	175,166	184,134	194,957	209,188	227,209	234,550	245,846	267,578
Air transportation	13,386	13,501	16,476	18,854	19,324	20,939	24,364	30,609	31,007	31,971	32,980	35,871	40,368	44,920	46,931	48,040	54,597
Rail transportation	21,715	18,304	19,707	21,334	21,053	22,420	20,910	21,122	18,661	18,582	20,226	20,132	20,352	21,342	21,220	20,987	19,965
Water transportation	3,925	3,456	3,684	3,937	4,063	4,086	4,236	4,560	4,725	5,154	5,766	5,808	6,024	6,387	6,380	6,699	7,102
Truck transportation	30,030	29,478	32,565	36,717	39,560	43,412	44,807	45,453	49,169	50,733	52,294	56,000	60,512	67,829	70,335	74,811	82,786
Transit and ground passenger transportation	5,893	5,999	6,288	7,033	7,355	7,731	7,471	7,985	8,332	8,998	9,586	9,940	10,602	11,228	11,876	12,882	14,853
Pipeline transportation	6,114	7,107	7,694	7,569	7,298	6,035	6,295	5,719	5,992	6,022	6,082	6,419	6,712	6,842	6,716	7,144	7,331
Other transportation and support activities	22,348	21,622	23,950	27,133	29,453	32,406	34,168	35,732	38,382	40,524	43,593	45,933	48,634	51,229	52,223	55,417	58,604
Warehousing and storage	6,967	7,008	7,773	8,871	9,546	10,497	11,074	11,920	12,590	13,181	13,609	14,854	15,984	17,433	18,869	19,866	22,340
Information	137,354	150,121	169,806	180,585	199,219	211,266	223,240	233,849	254,721	270,035	281,775	300,060	323,050	343,211	360,513	392,112	400,259
Publishing industries (includes software)	25,273	27,461	31,158	34,490	38,846	41,946	45,507	48,360	53,146	54,885	57,253	61,143	64,312	69,774	70,695	81,762	90,033
Motion picture and sound recording industries	16,492	17,429	18,998	21,357	23,064	25,400	27,710	28,047	33,684	33,769	35,282	35,818	40,680	42,362	48,065	54,363	56,651
Broadcasting and telecommunications	87,794	96,535	109,535	113,647	124,776	130,434	135,838	141,994	150,972	162,808	170,116	182,059	195,650	206,525	215,101	226,971	223,314
Information and data processing services	7,795	8,697	10,115	11,090	12,534	13,486	14,186	15,448	16,919	18,573	19,123	21,040	22,407	24,549	26,652	29,016	30,260
Finance, insurance, real estate, rental, and leasing	505,501	547,565	614,735	680,617	743,799	80 \$ 5655	851,277	916,803	981,645	1,047,513	1,106,949	1,192,/01	1,256,2//	1,319,232	1,407,407	1,490,009	1,609,1/3

Table 1.-- Value Added by Industry, Millions of Dollars

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Finance and insurance	154,715	167,821	194,217	213,761	234,205	262,811	283,248	302,496	323,262	347,212	382,122	419,771	440,032	453,339	488,809	527,756	584,383
Federal Reserve banks, credit intermediation, and related activities	80,902	84,118	98,840	105,790	119,742	141,275	152,540	152,691	159,685	171,854	189,680	203,692	211,196	215,121	220,343	231,268	248,564
Securities, commodity contracts, and investments	10,083	11,480	20,51 <mark>5</mark>	20,963	26,121	29,990	41,425	43,493	45,789	43,214	46,886	53,594	63,925	58,814	72,748	94,591	118,479
Insurance carriers and related activities	60,194	68,842	70,68 <mark>4</mark>	82,366	81,790	84,302	81,876	99,519	111,107	124,580	137,720	153,456	154,953	169,952	185,600	191,601	207,399
Funds, trusts, and other financial vehicles	3,535	3,381	4,178	4,642	6,552	7,244	7,406	6,792	6,680	7,564	7,836	9,028	9,958	9,452	10,118	10,297	9,941
Real estate and rental and leasing	350,786	379,743	420,51 <mark>8</mark>	46 <mark>6,85</mark> 7	509,594	542,844	568,029	61 4,307	658,383	700,301	724,827	772,930	816,245	865,893	918,598	962,252	1,024,790
Real estate	318,862	345,667	382,885	42 <mark>4,28</mark> 9	4 <mark>62,778</mark>	49 <mark>2,82</mark> 8	515,7 <mark>2</mark> 5	55 <mark>4,3</mark> 97	593,621	629, 850	655,933	699,859	737,570	781,155	828,771	863,394	918,675
Rental and leasing services and lessors of intangible assets	31, <mark>9</mark> 24	34,076	37,63 <mark>3</mark>	4 <mark>2,56</mark> 8	46,8 <mark>1</mark> 6	5 <mark>0,01</mark> 6	52,3 <mark>04</mark>	5 <mark>9,910</mark>	64,762	70,451	68,894	73,072	78,674	84,738	89,828	98,859	106,115
Professional and business services	199, <mark>6</mark> 30	215,760	245 ,515	28 <mark>4,51</mark> 4	3 <mark>21,16</mark> 7	35 <mark>6,87</mark> 5	389,3 <mark>86</mark>	430,464	477,803	<mark>524,</mark> 355	5 <mark>32,462</mark>	576,614	611,067	649,203	698,481	768,415	856,808
Professional, scientific, and technical services	110,688	122,010	139,314	160,693	182,554	204,203	224,310	258,429	289,348	320,458	3 26,92 8	354,195	372,958	393,617	420,135	461,953	513,849
Legal services	26,347	30,320	35,286	41,741	47,096	54,837	59,821	70,281	76,335	83,530	86,04 5	93,125	95,291	96,651	98,316	104,277	108,908
Computer systems design and related services	10,326	11,748	13,978	16,164	18,461	20,056	21,689	24,560	27,857	31,062	33,3 27	37,171	41,332	46,285	51,815	61,742	77,697
Miscellaneous professional, scientific, and technical services	74,015	79,942	90,050	102,788	116,997	129,311	142,799	163,587	185,157	205,866	207,555	223,899	236,335	250,680	270,004	295,934	327,244
Management of companies and enterprises	45,430	47,365	53,644	61,603	68,407	74,534	77,299	73,882	78,376	81,074	82,001	85,586	93,092	97,006	103,705	112,513	125,641
Administrative and waste management services	43,512	46,385	52,557	62,218	70,205	78,137	87,777	98,153	110,078	122,823	123,533	136,833	145,017	158,580	174,641	193,948	217,317
Administrative and support services	37,643	40,255	45,616	54,592	61,411	68,161	76,641	85,628	96,172	107,788	108,322	120,124	126,930	138,865	154,034	172,685	195,128
Waste management and remediation services	5,869	6,129	6,941	7,626	8,795	9,976	11,136	12,525	13,906	15,035	15,211	16,709	18,087	19,715	20,608	21,264	22,190
Educational services, health care, and social assistance	152,796	169,310	190,331	207,963	227,233	246,986	279,504	303,284	339,548	378,223	414,633	449,813	482,058	509,884	528,990	549,078	574,284
Educational services	19,623	21,217	24,182	26,678	28,814	30,489	33,622	35,894	39,005	41,449	45,665	49,065	52,129	56,116	59,624	63,097	67,300
Health care and social assistance	133,173	148,093	166,149	181,285	198,418	216,497	245,882	267,390	300,543	336,774	368,968	400,749	429,929	453,768	469,366	485,980	506,984
Ambulatory health care services	61,965	67,867	76,636	85,019	93,990	103,434	121,166	132,891	148,945	167,280	183,022	199,555	213,410	227,293	235,620	242,322	250,919
Hospitals and nursing and residential care facilities	62,412	71,261	79,130	84,663	91,449	98,449	108,811	117,066	131,698	147,375	162,259	174,105	187,526	195,219	200,489	209,403	216,903
Social assistance	8,796	8,965	10,383	11,603	12,980	14,614	15,905	17,432	19,901	22,118	23,687	27,089	28,993	31,256	33,257	34,255	39,163
Arts, entertainment, recreation, accommodation, and food services	94,025	101,129	112,596	122,005	133,533	145,313	153,625	170,300	185,371	200,822	206,855	219,369	232,637	244,642	257,889	275,456	302,579
Arts, entertainment, and recreation	20,628	21,772	23,977	25,549	28,504	30,851	33,691	36,387	42,141	48,963	50,538	57,735	59,497	62,402	67,527	72,897	81,711
Performing arts, spectator sports, museums, and related activities	8,908	9,515	10,615	11,641	12,864	14,552	16,184	17,312	19,325	23,238	24,100	26,794	28,851	30,485	32,625	35,602	38,888
Amusements, gambling, and recreation industries	11,720	12,257	13,362	13,908	15,640	16,300	17,507	19,075	22,816	25,725	26,438	30,940	30,646	31,917	34,902	37,296	42,823
Accommodation and food services	73,396	79,357	88,619	96,456	105,029	114,462	119,934	133,913	143,230	151,859	156,317	161,635	173,140	182,240	190,363	202,559	220,868
Accommodation	21,890	23,032	25,884	28,512	31,533	33,811	36,240	38,749	41,957	44,329	46,117	48,969	52,062	55,372	59,470	64,422	70,529
Food services and drinking places	51,507	56,325	62,735	67,944	73,496	80,651	83,694	95,164	101,273	107,531	110,200	112,666	121,078	126,868	130,892	138,136	150,340
Other services, except government	76,703	79,046	87,522	97,021	106,271	115,814	121,463	133,560	145,297	154,232	156,063	166,248	178,751	191,573	201,912	212,113	224,525
Government	453,613	492,367	525,899	566,962	614,566	654,167	694,563	748,738	807,222	866,210	923,524	976,755	1,007,869	1,044,042	1,077,912	1,106,651	1,146,000
Federal	198,916	216,834	230,187	248,216	266,278	278,112	289,341	310,268	326,610	341,308	363,265	374,109	374,277	377,603	379,462	378,808	383,027
General government	176,000	193,001	204,924	221,104	236,331	247,323	258,463	275,923	290,055	304,343	321,327	327,708	329,754	330,610	331,344	330,511	332,313
Government enterprises	22,916	23,833	25,263	27,112	29,947	30,789	30,878	34,345	36,555	36,965	41,938	46,401	44,523	46,993	48,118	48,297	50,714
State and local	254,697	275,533	295,711	318,746	348,288	376,055	405,222	438,469	480,612	524,902	560,259	602,647	633,592	666,439	698,451	727,843	762,972
General government	237,828	256,896	273,931	293,295	319,131	344,411	371,218	400,757	438,838	480,325	513,651	552,969	580,027	609,854	638,222	663,385	694,686
Government enterprises	16,869	18,637	21,780	25,451	29,157	31,644	34,004	37,712	41,774	44,577	46,608	49,678	53,565	56,585	60,229	64,458	68,286
SUM	3,210,956	3,344,991	3,638,137	1,040,693	4,346,734	4,590,155	4,870,217	5,252,629	5,657,693	5,979,589	5,174,043 (5,539,299	6,878,718	7,308,755	7,664,060 8	3,100,201	8,608,515

Table 2.--Revisions in level for Value Added by Industry

, , , , , , , , , , , , , , , , , , , ,	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Private industries	8,474	8,965	10,217	11,562	12,664	13,984	15,143	15,486	16,156	17,634	19,250	21,823	24,171	28,370	32,448	37,059	43,337	48,063
Agriculture, forestry, fishing, and hunting	0	0	0_	0	0	4	5	9	12	15	25	29	26	47	44	41	47	59
Farms				()		[0	0	0	0
Forestry, fishing, and related activities															44	41	47	59
Mining	1 1 1 -1/	1	3	3 (5	-1	<u>-1/</u>	8/	13	-2	B	85	104	156	181	286	309	524
Oil and gas extraction		7//	11		10-1		/	~ \ \.\		\rangle \.	1 / /				153	215	237	405
Mining, except oil and gas			- la la		[] [f	\ \ //				1	24	30	48
Support activities for mining		F-							/ ···		\ V /				28	46	43	71
Utilities	0	2	4	6	9	-3	2	-6	-4	5	-5	-4	64	55	75	59	31	73
Construction	<u>6</u> ,	-3_		L 7 L	12	6	6	3 \		-31	-27	16	84	188	266	413	482	394
Manufacturing	5,520	5,991	6,680	7,494	8,331	8,962	10,017	10,301	10,412	11,263	12,356	13,537	15,045	15,689	17,535	19,532	23,181	27,276
Durable goods	3,726	4,007	4,495	5,161	5,832	6,304	7,088	7,192	7,251	7,911	8,7 81	9,471	10,377	10,932	12,333	13,936	16,562	19,358
Wood products															93	119	124	118
Nonmetallic mineral products															236	252	305	355
Primary metals															128	70	112	173
Fabricated metal products															405	460	574	754
Machinery															1,381	1,569	1,764	2,078
Computer and electronic products															4,187	4,724	5,541	6,760
Electrical equipment, appliances, and components															1,033	1,168	1,321	1,333
Motor vehicles, bodies and trailers, and parts															2,633	2,930	3,617	3,907
Other transportation equipment															1,718	2,038	2,507	3,112
Furniture and related products															86	98	108	112
Miscellaneous manufacturing															431	507	590	657
Nondurable goods	1,794	1,985	2,184	2,334	2,498	2,658	2,929	3,108	3,161	3,352	3,574	4,066	4,668	4,757	5,201	5,596	6,619	7,918
Food and beverage and tobacco products															466	442	528	698
Textile mills and textile product mills															89	101	111	114
Apparel and leather and allied products															116	139	150	154
Paper products															203	215	279	370
Printing and related support activities															98	118	150	178
Petroleum and coal products															518	475	694	986
Chemical products															3,300	3,700	4,204	4,810
Plastics and rubber products															411	405	506	609
Wholesale trade	0	5	14	19	29	44	48	86	117	116	168	277	341	502	622	830	921	978
Retail trade	-6	0	10	16	27	104	85	154	240	258	406	558	557	863	989	1,255	1,318	1,263
Transportation and warehousing	-5	-2	2	5	9	-1	-10	-2	9	4	14	26	64	135	196	219	219	198
Air transportation															-129	-194	-190	-207
Rail transportation															122	116	113	137
Water transportation															7	13	9	9
Truck transportation															92	135	131	120
Transit and ground passenger transportation															37	44	50	45
Pipeline transportation															7	13	20	20
Other transportation and support activities															56	81	74	66
Warehousing and storage															5	11	13	8
Information	2,656	2,611	3,075	3,527	3,673	4,120	4,152	3,867	4,003	4,519	4,345	4,636	5,129	6,905	8,232	8,802	10,772	10,582
Publishing industries (includes software)															1,534	1,729	1,830	2,006
Motion picture and sound recording industries															4,403	4,432	5,685	5,112
Broadcasting and telecommunications															2,254	2,583	3,178	3,355
Information and data processing services	•••														41	59	78	110
Finance, insurance, real estate, rental, and leasing	-19	-9	7	15	31	75	100	190	309	391	647	1,043	970	1,501	1,670	2,232	2,380	2,653
Finance and insurance	-5	-3	2	4	8	17-63	-51	-102	-169	-174	-336	-297	-134	-270	-220	-269	-235	-216

Table 2.--Revisions in level for Value Added by Industry

,	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Federal Reserve banks, credit intermediation, and related activities															-67	-69	-13	-4
Securities, commodity contracts, and investments															14	33	28	-25
Insurance carriers and related activities	·			A											-159	-217	-231	-169
Funds, trusts, and other financial vehicles															-7	-16	-19	-19
Real estate and rental and leasing	15/	-6	5	11 (23	138	151/	292	479	565	984	1,340	1,104	1,772	1,889	2,501	2,614	2,869
Real estate	1 1 1 1 1 2	7/5	11		'A"	~ \)	~ \\	-	الير"	1 6.1	·	·	·	1,744	2,300	2,401	2,633
Rental and leasing services and lessors of intangible assets	/ (-			() ((\ \ //				145	201	213	236
Professional and business services	199	220	248	268	301	340	3 <mark>77</mark>	434	524	549	638	768	881	1,093	1,290	1,602	1,812	2,158
Professional, scientific, and technical services	116	127	144	153	174	202	220	259	327	322	378	469	536	683	803	990	1,102	1,337
Legal services		-		. LJ l				U\	لال	<u></u>	\ /				87	105	89	95
Computer systems design and related services											<i>[]</i>				25	41	45	51
Miscellaneous professional, scientific, and technical services											<i>U</i>				691	843	968	1,191
Management of companies and enterprises	0	1	4	4	7	3	6	7	5	5	-2	0	28	23	46	64	81	103
Administrative and waste management services	85	92	99	112	120	133	151	167	193	221	262	299	318	387	440	549	629	718
Administrative and support services															426	529	611	701
Waste management and remediation services															14	21	18	16
Educational services, health care, and social assistance	30	36	47	54	69	99	111	128	131	99	51	66	158	161	151	252	238	178
Educational services	19	21	24	28	33	46	53	69	87	102	137	168	155	200	209	254	273	302
Health care and social assistance	10	15	23	26	36	53	58	59	43	-3	-86	-102	4	-39	-58	-2	-35	-124
Ambulatory health care services															-55	-34	-52	-95
Hospitals and nursing and residential care facilities															-48	-34	-54	-106
Social assistance															46	66	71	77
Arts, entertainment, recreation, accommodation, and food services	95	98	106	126	138	172	182	216	257	282	370	448	456	626	718	897	984	1,012
Arts, entertainment, and recreation	97	99	105	124	133	144	156	168	181	197	231	258	279	342	396	467	515	544
Performing arts, spectator sports, museums, and related activities															342	397	451	489
Amusements, gambling, and recreation industries															53	71	63	56
Accommodation and food services	-2	-1	1	2	5	29	26	49	76	84	138	190	177	285	322	430	469	468
Accommodation															119	164	175	179
Food services and drinking places															203	267	293	289
Other services, except government	13	17	21	24	31	62	70	106	147	166	258	336	291	448	481	638	645	714
Government	12,348	13,182	14,396	15,785	16,622	18,653	20,305	22,072	24,797	26,930	27,031	27,550	27,053	24,635	23,373	25,750	26,578	26,300
Federal	10,983	11,758	12,663	13,996	15,155	16,468	17,734	19,338	20,903	22,027	23,377	23,680	23,075	23,271	22,178	24,387	25,157	26,017
General government															21,614	23,853	24,945	26,117
Government enterprises															564	534	212	-100
State and local	1,365	1,425	1,732	1,789	1,468	2,186	2,571	2,733	3,894	4,903	3,654	3,870	3,978	1,364	1,195	1,364	1,420	283
General government															927	1,021	1,069	-23
Government enterprises															268	343	351	306
SUM	20,822	22,147	24,613	27,347	29,286	32,637	35,448	37,558	40,953	44,564	46,281	49,373	51,224	53,005	55,821	62,809	69,915	74,363

Table 2.--Revisions in level for Value Added by Industry

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Private industries	55,715	61,240	70,572	80,774	97,573	95,581	97,742	108,615	120,755	119,096	117,292	120,586	134,919	144,823	166,140	181,000
Agriculture, forestry, fishing, and hunting	57	57	54	47	347	449	594	656	176	469	-276	-620	-83	-226	-642	-622
Farms	0	0	0	0	276	399	571	646	176	523	-233	-534	-89	-305	-740	-640
Forestry, fishing, and related activities	57	57	5 <mark>4</mark>	47	71	50	23	10	0	-54	-43	-87	5	79	98	18
Mining	686	744	544	507	679	292	261	186	241	132	61	13	176	438	210	661
Oil and gas extraction	507	497	414	392	503	182	1 <mark>32</mark>	88	81	-30	-11	-31	65	196	166	288
Mining, except oil and gas	56	106	58	47	89	81	1 <mark>08</mark>	85	137	150	66	24	103	199	48	330
Support activities for mining	124	141	 / 7 2	68	86	28	22	14	22	12	√ 6/	20	8	43	-4	43
Utilities	71	114	312	386	758	556	5 <mark>06</mark>	644	749	609	449	822	718	1,414	811	1,235
Construction	227	147	-88_	-121	571	740	1,047	1,757	2,793	2,682	1,553	2,171	2,399	3,297	2,975	1,318
Manufacturing	31,544	35,306	40,601	46,620	53,888	55,052	57,546	62,302	67,677	68,521	68,337	70,615	68,470	70,369	84,580	99,157
Durable goods	22,297	24,557	28,331	32,427	37,885	39,693	41,004	43,741	46,310	45,832	44,2 39	45,069	43,233	43,127	54,976	65,373
Wood products	118	99	118	115	151	74	61	81	95	23	16	-22	48	138	174	128
Nonmetallic mineral products	415	532	727	952	1,230	1,259	1,292	972	949	785	601	621	714	632	706	815
Primary metals	316	559	651	739	950	987	992	1,343	1,629	1,467	1,278	2,250	1,599	1,758	1,052	1,388
Fabricated metal products	846	946	1,082	1,339	1,601	1,425	1,268	1,489	1,671	1,528	1,581	1,530	1,717	1,774	2,215	2,740
Machinery	2,629	2,994	3,155	3,525	4,162	3,658	3,495	3,766	4,360	4,100	4,578	4,237	3,866	4,619	5,206	5,704
Computer and electronic products	7,434	8,200	9,342	10,780	12,043	12,429	13,611	14,083	14,300	14,491	14,515	15,952	15,593	17,557	20,301	24,343
Electrical equipment, appliances, and components	1,653	1,405	1,601	1,353	1,289	1,471	1,522	1,607	2,141	2,567	2,755	3,143	2,361	2,659	3,426	3,471
Motor vehicles, bodies and trailers, and parts	4,207	4,016	4,761	5,532	6,774	8,148	8,156	9,635	10,269	10,104	8,133	5,386	6,192	3,919	10,843	14,617
Other transportation equipment	3,607	4,388	5,299	6,312	7,378	7,993	8,262	8,198	8,077	7,787	7,793	8,718	8,113	6,869	7,337	7,542
Furniture and related products	126	132	138	145	190	185	161	189	229	197	188	139	156	215	186	620
Miscellaneous manufacturing	945	1,287	1,454	1,636	2,116	2,062	2,184	2,378	2,590	2,780	2,800	3,116	2,875	2,989	3,532	4,004
Nondurable goods	9,248	10,750	12,271	14,193	16,003	15,359	16,542	18,561	21,368	22,690	24,098	25,546	25,237	27,242	29,604	33,784
Food and beverage and tobacco products	702	932	1,111	1,505	1,906	1,857	1,750	1,733	2,061	2,037	1,776	1,969	1,732	2,266	2,197	2,408
Textile mills and textile product mills	120	129	168	189	252	210	197	205	208	207	146	134	221	249	382	419
Apparel and leather and allied products	159	167	174	176	259	232	220	252	282	267	204	195	263	386	266	454
Paper products	459	538	546	608	699	576	600	775	975	983	1,113	1,242	968	971	1,259	1,855
Printing and related support activities	204	236	254	288	373	308	348	453	570	545	555	668	543	499	569	897
Petroleum and coal products	1,421	1,801	2,152	2,627	2,925	2,603	2,502	2,640	3,077	3,042	3,207	2,728	2,179	2,337	2,161	1,912
Chemical products	5,485	6,152	7,030	7,861	8,556	8,667	10,103	11,486	12,836	14,121	15,681	17,036	18,019	18,740	20,953	24,244
Plastics and rubber products	697	795	836	940	1,034	906	822	1,016	1,359	1,488	1,416	1,575	1,312	1,795	1,816	1,594
Wholesale trade	1,022	1,228	1,435	1,606	2,265	1,414	996	1,026	1,128	519	251	660	1,144	89	1,690	1,235
Retail trade	1,277	1,301	1,478	1,577	2,244	1,231	813	924	982	-38	-262	-3,427	1,012	2,128	3,129	1,177
Transportation and warehousing	229	203	156	87	544	560	767	1,698	2,569	2,412	1,832	2,920	2,772	3,479	2,817	4,565
Air transportation	-166	-155	-76	-53	53	89	131	348	581	625	535	950	818	1,123	756	1,105
Rail transportation	134	97	48	29	88	98	179	60	20	-15	-26	-52	25	83	142	129
Water transportation	14	11	4	1	16	24	42	38	46	32	13	53	40	66	49	110
Truck transportation	105	108	58	14	142	159	198	665	1,049	1,005	770	1,093	1,058	1,218	1,043	1,745
Transit and ground passenger transportation	46	40	38	39	49	20	6	17	8	-11	-17	-20	27	67	67	37
Pipeline transportation	22	26	31	28	44	19	21	26	30	25	14	49	18	53	-1	85
Other transportation and support activities	67	70	42	19	113	121	156	434	676	611	466	752	704	811	658	1,099
Warehousing and storage	7	7	11	10	40	31	34	110	156	139	77	94	82	61	105	256
Information	13,832	14,794	17,337	20,551	22,775	25,665	25,796	28,409	32,366	34,444	37,439	39,530	43,404	43,768	48,985	53,486
Publishing industries (includes software)	2,203	2,417	2,643	2,941	3,304	3,445	4,506	5,134	5,862	6,147	6,437	6,709	7,142	6,807	6,941	7,826
Motion picture and sound recording industries	6,816	6,877	7,472	8,889	8,943	10,628	10,890	11,285	12,954	13,607	15,237	15,521	17,501	18,912	21,383	24,711
Broadcasting and telecommunications	4,670	5,328	6,988	8,426	10,145	11,197	10,069	11,566	13,044	14,170	15,178	16,600	18,269	17,989	20,668	20,964
Information and data processing services	142	173	235	293	384	395	331	424	505	521	586	700	491	59	-7	-15
Finance, insurance, real estate, rental, and leasing	2,703	2,827	3,095	3,088	4,413	1,637	1,021	1,056	690	-1,640	-2,894	639	-3,021	-2,396	1,665	-297
Finance and insurance	-237	-153	271	352	1,083	19649	820	973	1,231	693	89	5,476	-1,307	-2,978	-770	642

Table 2.--Revisions in level for Value Added by Industry

, ,	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Federal Reserve banks, credit intermediation, and related activities	-43	-23	169	183	567	339	355	427	443	82	-185	995	-163	-807	140	728
Securities, commodity contracts, and investments	-27	-15	52	44	127	73	115	106	103	81	-22	3,090	-1,504	-2,925	-1,563	-1,505
Insurance carriers and related activities	-170	-107	4 <mark>7</mark>	121	359	219	330	385	616	465	249	1,184	313	709	673	1,318
Funds, trusts, and other financial vehicles	1	-8	3	3	31	19	18	54	68	65	47	206	47	45	-20	102
Real estate and rental and leasing	2,940	2,979	2,824	2,737	3,330	987	201	83	-542	-2,334	-2,982	-4,837	-1,714	582	2,435	-940
Real estate	2,700	2,743	2,600	2,51 6	3,041	890	159	47	-518	-2,137	-2,738	-4,470	-1,586	549	2,239	-920
Rental and leasing services and lessors of intangible assets	2 40	235	224	221	289	97	42	36	-23	-197	-245	-366	-129	33	197	-19
Professional and business services	2,335	2,584	3,101	3,584	4,831	<mark>4,43</mark> 6	4,9 <mark>28</mark>	6,192	7,408	7,844	8,481	10,004	10,124	9,523	11,161	11,868
Professional, scientific, and technical services	1,418	1,592	1 ,91 <mark>1</mark>	2,200	2,930	<mark>2,73</mark> 5	3,2 <mark>0</mark> 4	3,962	4,779	5,381	6,290	6,778	7,454	7,092	8,221	7,669
Legal services	44.	-16_	50	77	221	139	137	102	73	-60	-158	-406	-31	200	428	95
Computer systems design and related services	52	54	64	66	105	43	342	670	860	1,034	1,317	1,553	1,409	1,080	1,446	1,882
Miscellaneous professional, scientific, and technical services	1,322	1,553	1,797	2,057	2,603	2,555	2,724	3,189	3,848	4,406	5,131	5,631	6,076	5,811	6,346	5,692
Management of companies and enterprises	127	149	255	317	545	418	359	647	848	804	647	892	727	596	552	1,212
Administrative and waste management services	789	842	935	1,067	1,356	1,282	1,364	1,583	1,779	1,660	1,544	2,333	1,944	1,836	2,389	2,985
Administrative and support services	776	827	918	1,054	1,310	1,235	1,314	1,459	1,599	1,470	1,397	2,054	1,755	1,546	2,260	2,607
Waste management and remediation services	13	14	17	13	47	47	51	124	180	190	146	279	189	289	129	380
Educational services, health care, and social assistance	-96	104	668	873	1,821	1,746	1,776	1,792	2,112	1,569	1,215	-3,076	5,634	9,718	5,041	3,637
Educational services	325	347	360	374	421	304	286	314	313	244	234	162	417	601	756	561
Health care and social assistance	-421	-243	308	499	1,398	1,443	1,490	1,478	1,798	1,325	981	-3,236	5,217	9,117	4,285	3,075
Ambulatory health care services	-233	-135	173	313	803	887	879	902	1,106	933	812	-1,285	2,935	4,854	2,439	1,803
Hospitals and nursing and residential care facilities	-267	-183	60	112	506	526	602	569	707	462	259	-1,808	2,296	4,193	1,712	1,269
Social assistance	79	75	74	73	90	29	9	7	-13	-72	-90	-144	-15	70	134	2
Arts, entertainment, recreation, accommodation, and food services	1,086	1,096	1,144	1,223	1,512	1,271	1,292	1,457	1,412	1,239	924	373	1,716	2,351	2,540	2,647
Arts, entertainment, and recreation	601	605	664	762	854	952	1,096	1,192	1,152	1,382	1,203	1,488	1,497	1,810	1,647	2,109
Performing arts, spectator sports, museums, and related activities	543	556	611	712	766	904	1,054	1,127	1,042	1,319	1,185	1,381	1,433	1,767	1,593	1,842
Amusements, gambling, and recreation industries	58	49	53	50	88	49	42	64	110	63	18	106	64	44	54	268
Accommodation and food services	484	491	479	461	657	320	195	265	261	-143	-279	-1,114	219	540	894	538
Accommodation	189	181	151	140	201	118	75	91	97	4	-49	83	98	74	204	221
Food services and drinking places	296	310	329	321	456	202	121	175	164	-146	-229	-1,197	121	467	689	316
Other services, except government	742	733	734	744	926	533	398	517	454	336	183	-37	455	870	1,178	932
Government	28,404	30,557	32,958	29,024	31,691	34,506	36,121	43,591	54,792	59,966	64,657	76,407	76,449	78,772	83,264	80,745
Federal	28,214	31,188	32,817	28,427	30,515	33,503	32,722	38,208	40,696	42,396	42,418	41,130	39,603	40,386	42,449	37,161
General government	28,620	31,787	33,677	29,034	31,318	34,753	35,159	41,173	43,611	45,546	46,493	45,713	44,564	45,445	47,747	42,950
Government enterprises	-406	-599	-860	-607	-803	-1,250	-2,437	-2,965	-2,915	-3,150	-4,075	-4,583	-4,961	-5,059	-5,298	-5,789
State and local	190	-631	140	597	1,176	1,003	3,399	5,382	14,096	17,570	22,239	35,278	36,846	38,386	40,816	43,584
General government	-92	-845	-185	224	716	707	2,983	4,910	13,057	16,469	20,881	33,038	34,051	35,115	37,059	39,660
Government enterprises	282	214	325	373	460	296	416	472	1,039	1,101	1,358	2,240	2,795	3,271	3,757	3,924
SUM	84,119	91,797	103,530	109,798	129,264	130,087	133,863	152,206	175,547	179,062	181,949	196,993	211,368	223,595	249,404	261,745

Table 3.--Value Added by Industry as a Percentage of GDP

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Private industries	84.8	84.8	85.0	84.9	84.3	84.1	83.9	83.2	83.1	83.3	84.0	83.8	83.8	84.4	84.9	85.4	85.9	85.7
Agriculture, forestry, fishing, and hunting	3.2	2.9	3.0	2.9	2.7	2.5	2.6	2.5	2.5	2.7	3.7	3.2	3.0	2.7	2.5	2.5	2.7	2.2
Farms)		[<u> </u>			•••			•••		2.1	2.2	2.3	1.8
Forestry, fishing, and related activities		—				<u> </u>		<u> </u>			~ ~				0.4	0.4	0.4	0.4
Mining	1.7	1.6	1.5	1.5	1.4	1.4	1.3	1.4	1.3	1.2	1,3	1.9	2.0	2.0	2.1	2.1	2.3	3.2
Oil and gas extraction	1 1/	16) }		0-1	1	/	٦ ا٢		()	1//				1.2	1.2	1.3	2.1
Mining, except oil and gas								/			\ \//				0.7	0.7	0.7	0.7
Support activities for mining		1									\ V /				0.2	0.3	0.2	0.4
Utilities	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.3	2.3	2.3	2.2	2.0	2.1
Construction	4.3	4.4	4.5	4.5	4.4	4.4	4.6	4.6	4.7	4.7	4.8	4.7	4.4	4.5	4.5	4.7	4.8	4.6
Manufacturing	25.2	25.3	25.7	26.1	25.3	25.2	24.4	22.9	22.2	22.2	22.1	21.4	20.9	21.4	21.9	21.6	21.6	20.5
Durable goods	15.2	15.3	15.8	16.2	15.7	15.6	15.1	13.7	13.3	13.5	13.7	13.1	12.5	13.0	13.4	13.6	13.3	12.5
Wood products															0.5	0.5	0.5	0.4
Nonmetallic mineral products															0.7	0.7	0.7	0.6
Primary metals															1.5	1.7	1.7	1.5
Fabricated metal products															1.8	1.9	1.9	1.9
Machinery															2.4	2.4	2.4	2.3
Computer and electronic products															1.5	1.6	1.6	1.8
Electrical equipment, appliances, and components															0.9	0.9	0.9	0.9
Motor vehicles, bodies and trailers, and parts															2.1	2.0	1.7	1.2
Other transportation equipment															1.0	1.0	1.1	1.1
Furniture and related products															0.4	0.4	0.4	0.4
Miscellaneous manufacturing				•••		•••									0.5	0.5	0.5	0.5
Nondurable goods	10.0	10.0	9.9	9.9	9.6	9.6	9.3	9.1	8.9	8.7	8.4	8.3	8.4	8.5	8.5	8.1	8.2	7.9
Food and beverage and tobacco products				•••		•••									2.4	2.2	2.1	2.1
Textile mills and textile product mills				•••		•••									0.6	0.6	0.6	0.5
Apparel and leather and allied products				•••		•••									0.8	0.7	0.7	0.7
Paper products					•••					•••	•••	•••	•••	•••	0.9	0.9	0.9	0.8
Printing and related support activities				•••		•••					•••			•••	0.5	0.5	0.5	0.5
Petroleum and coal products				•••		•••					•••			•••	0.4	0.4	0.8	0.7
Chemical products				•••		•••					•••			•••	2.1	2.0	2.0	1.9
Plastics and rubber products				•••		•••					•••			•••	0.8	0.8	0.8	0.7
Wholesale trade	6.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.7	6.8	6.5	6.5	6.5	6.7	6.5
Retail trade	7.5	7.6	7.6	7.4	7.5	7.6	7.6	7.7	7.8	7.7	7.6	7.4	7.6	7.7	7.7	7.6	7.4	7.0
Transportation and warehousing	4.1	4.0	4.0	4.0	3.8	3.8	3.7	3.7	3.8	3.8	3.8	3.8	3.6	3.7	3.7	3.7	3.7	3.6
Air transportation												•••			0.5	0.5	0.4	0.5
Rail transportation				•••		•••		•••		•••	•••		•••	•••	0.7	0.7	0.7	0.7
Water transportation		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	0.1 1.1	0.1 1.1	0.1 1.1	0.1 1.0
Truck transportation Transit and ground passenger transportation	•••				•••			•••		•••	•••		•••	•••	0.2	0.2	0.2	0.2
Pipeline transportation		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	0.2	0.2	0.2	0.2
Other transportation and support activities		•••		•••	•••	•••			•••	•••	•••		•••	•••	0.7	0.2	0.8	0.2
Warehousing and storage	•••				•••										0.2	0.2	0.2	0.2
Information	 3.7	3.7	3.7	3.7	3.8	3.7	3.8	3.8	3.8	3.9	3.8	3.8	3.9	4.0	4.0	4.1	4.1	4.2
Publishing industries (includes software)															0.8	0.8	0.8	0.8
Motion picture and sound recording industries	···														0.5	0.5	0.5	0.5
Broadcasting and telecommunications															2.6	2.6	2.5	2.6
Information and data processing services															0.2	0.2	0.2	0.2
Finance, insurance, real estate, rental, and leasing	14.0	14.0	13.8	13.6	13.8	213.7	13.9	14.2	14.6	14.5	14.3	14.5	14.8	14.6	14.7	14.9	15.0	15.7

Table 3Value Added by Industry as a Percentage of GD	P
Finance and insurance	

Table 3 Value Added by illuditiy as a referriage of GDF	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Finance and insurance	3.4	3.5	3.5	3.6	3.8	3.8	4.0	4.1	4.2	4.1	4.0	4.1	4.3	4.3	4.5	4.8	4.7	4.8
Federal Reserve banks, credit intermediation, and related activities	3.4	5.5	5.5	3.0	3.0	3.0	4.0	7.1	7.2	7.1	4.0	7.1	4.5	4.5	2.4	2.5	2.6	2.5
Securities, commodity contracts, and investments		•••				1		•••			•••		•••		0.3	0.4	0.4	0.3
Insurance carriers and related activities				<u></u>		🛴			···	···					1.8	1.9	1.8	1.9
Funds, trusts, and other financial vehicles	1 00	~ (\ "		V	~ ~		~ /	-	0/00					0.0	0.0	0.0	0.1
Real estate and rental and leasing	10.5	10.4	10.3	10.0	10.0	9.9	9.9	10.1	10.4	10.3	10.3	10.4	10.4	10.4	10.2	10.2	10.3	10.9
Real estate	7 7 307	10.1		10.0	10.0			10.1		7 \	\1				9.3	9.3	9.4	9.9
Rental and leasing services and lessors of intangible assets			→ [] [1(·	?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				0.9	0.9	0.9	1.0
Professional and business services	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.9	4.9	4.9	5.0	5.1	5.2	5.3	5.5	5.7	5.8	6.1
Professional, scientific, and technical services	2.1	2.2	2.2	2.3	2.4	2.3	2.4	2.5	2.5	2.6	2.7	2.7	2.7	2.8	3.0	3.0	3.2	3.4
Legal services											f 1				0.8	0.8	0.8	0.8
Computer systems design and related services	•••										<i>U</i>				0.2	0.3	0.3	0.3
Miscellaneous professional, scientific, and technical services															1.9	2.0	2.1	2.3
Management of companies and enterprises	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4
Administrative and waste management services	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3
Administrative and support services															1.0	1.0	1.1	1.1
Waste management and remediation services															0.2	0.2	0.2	0.2
Educational services, health care, and social assistance	2.8	2.9	2.9	3.0	3.2	3.3	3.5	3.8	3.8	3.9	4.0	4.1	4.3	4.4	4.4	4.4	4.5	4.7
Educational services	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
Health care and social assistance	2.3	2.4	2.4	2.4	2.6	2.7	2.9	3.1	3.1	3.2	3.2	3.4	3.6	3.7	3.8	3.8	3.9	4.1
Ambulatory health care services			•••												1.8	1.8	1.8	1.9
Hospitals and nursing and residential care facilities															1.7	1.7	1.8	1.9
Social assistance	•••														0.2	0.3	0.3	0.3
Arts, entertainment, recreation, accommodation, and food services	2.7	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.9	3.0	3.0	2.9
Arts, entertainment, and recreation	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Performing arts, spectator sports, museums, and related activities			•••		•••			•••							0.3	0.3	0.3	0.3
Amusements, gambling, and recreation industries															0.4	0.4	0.4	0.4
Accommodation and food services	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.4	2.3
Accommodation			•••		•••			•••							0.6	0.7	0.7	0.7
Food services and drinking places															1.6	1.6	1.7	1.6
Other services, except government	2.8	2.8	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.4
Government	15.2	15.2	15.0	15.1	15.7	15.9	16.1	16.8	16.9	16.7	16.0	16.2	16.2	15.6	15.1	14.6	14.1	14.3
Federal	8.4	8.3	8.0	8.1	8.3	8.4	8.3	8.4	8.2	8.0	7.4	7.4	7.2	7.0	6.6	6.4	6.1	6.2
General government		•••	•••		•••			•••			•••				5.9	5.7	5.4	5.5
Government enterprises															0.7	0.7	0.7	0.7
State and local	6.8	6.9	6.9	7.0	7.3	7.6	7.8	8.4	8.6	8.7	8.6	8.8	9.0	8.7	8.5	8.2	8.0	8.1
General government		•••			•••			•••		•••	•••				7.8 0.6	7.6 0.6	7.5 0.6	7.6 0.6
Government enterprises	100.0	 100 0	 100.0		 100 0		100.0	 100 0	100.0							100.0	100.0	100.0
SUM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 3.--Value Added by Industry as a Percentage of GDP

,,	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Private industries	85.9	85.3	85.5	86.0	85.9	85.7	85.7	85.7	85.7	85.5	85.0	85.1	85.3	85.7	85.9	86.3	86.7
Agriculture, forestry, fishing, and hunting	2.4	2.1	1.6	1.9	1.8	1.6	1.6	1.5	1.6	1.6	1.4	1.5	1.3	1.4	1.2	1.4	1.3
Farms	2.0	1.8	1.2	1.6	1.5	1.3	1.3	1.2	1.3	1.3	1.1	1.2	1.0	1.1	0.9	1.1	1.0
Forestry, fishing, and related activities	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Mining	3.8	3.6	2.8	2.7	2.5	1.5	1.5	1.4	1.4	1.5	1.3	1.1	1.1	1.0	1.0	1.1	1.1
Oil and gas extraction	2.6	2.3	2.0	1.8	1.7	1.0	1.0	0.8	0.8	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.6
Mining, except oil and gas	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Support activities for mining	0.6	0.6	0.4	0.3	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Utilities	2.2	2.5	2.6	2.6	2.6	2.6	2.6	2.4	2.5	2.4	2.5	2.5	2.4	2.4	2.3	2.2	2.0
Construction	4.2	3.9	3.8	4.0	4.1	4.3	4.3	4.3	4.3	4.1	3.7	3.6	3.7	3.8	3.9	4.0	4.0
Manufacturing	20.3	19.2	19.2	19.3	18.5	18.1	18.1	18.3	18.0	17.3	16.9	16.6	16.4	16.4	16.5	16.1	16.1
Durable goods	12.4	11.5	11.4	12.0	11.4	11.1	11.0	11.1	10.8	10.1	9.7	9.5	9.4	9.5	9.5	9.5	9.6
Wood products	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nonmetallic mineral products	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Primary metals	1.5	1.0	0.8	0.9	0.7	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Fabricated metal products	1.8	1.6	1.5	1.6	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3	1.3	1.3	1.3
Machinery	2.3	2.0	1.7	1.7	1.6	1.4	1.4	1.5	1.6	1.5	1.3	1.3	1.3	1.3	1.3	1.2	1.2
Computer and electronic products	1.8	1.8	2.0	2.1	2.1	1.9	2.0	2.1	2.0	1.9	1.9	1.9	1.8	1.9	2.0	2.0	2.2
Electrical equipment, appliances, and components	0.9	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
Motor vehicles, bodies and trailers, and parts	1.3	1.2	1.4	1.7	1.6	1.6	1.5	1.5	1.3	1.1	1.0	1.2	1.3	1.4	1.4	1.3	1.3
Other transportation equipment	1.0	1.3	1.3	1.4	1.3	1.3	1.4	1.3	1.2	1.2	1.3	1.0	0.9	0.7	0.7	0.7	0.7
Furniture and related products	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Miscellaneous manufacturing	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Nondurable goods	7.9	7.7	7.8	7.3	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.2	7.0	6.9	7.0	6.6	6.5
Food and beverage and tobacco products	2.1	2.2	2.2	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.8	1.7	1.8	1.6	1.6
Textile mills and textile product mills	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Apparel and leather and allied products	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
Paper products	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.6
Printing and related support activities	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
Petroleum and coal products	0.6	0.5	0.5	0.4	0.5	0.5	0.4	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.5
Chemical products	2.0	1.9	2.0	1.9	1.8	1.7	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1
Plastics and rubber products	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Wholesale trade	6.5	6.2	6.2	6.2	6.2	6.1	5.9	6.0	6.0	5.8	5.9	5.8	5.9	6.1	6.0	6.1	6.1
Retail trade	6.8	6.8	7.1	7.1	7.2	7.2	7.1	7.0	6.9	6.7	6.6	6.5	6.7	6.9	6.9	6.9	6.9
Transportation and warehousing	3.4	3.2	3.2	3.3	3.2	3.2	3.1	3.1	3.0	2.9	3.0	3.0	3.0	3.1	3.1	3.0	3.1
Air transportation	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
Rail transportation	0.7	0.5 0.1	0.5	0.5 0.1	0.5 0.1	0.5 0.1	0.4 0.1	0.4	0.3	0.3	0.3 0.1	0.3	0.3 0.1	0.3 0.1	0.3 0.1	0.3 0.1	0.2 0.1
Water transportation Truck transportation	0.1 0.9	0.1	0.1 0.9	0.1	0.1	0.1	0.1	0.1 0.9	0.1 0.9	0.1 0.8	0.1	0.1 0.9	0.1	0.1	0.1	0.1	1.0
Transit and ground passenger transportation	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2
Pipeline transportation	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other transportation and support activities	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Warehousing and storage	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Information	4.3	4.5	4.7	4.5	4.6	4.6	4.6	4.5	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.6
Publishing industries (includes software)	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0
Motion picture and sound recording industries	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7
Broadcasting and telecommunications	2.7	2.9	3.0	2.8	2.9	2.8	2.8	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.6
Information and data processing services	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Finance, insurance, real estate, rental, and leasing	15.7	16.4	16.9	16.8	17.1	237.6	17.5	17.5	17.4	17.5	17.9	18.2	18.3	18.1	18.4	18.4	18.7

Table 3.--Value Added by Industry as a Percentage of GDP

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Finance and insurance	4.8	5.0	5.3	5.3	5.4	5.7	5.8	5.8	5.7	5.8	6.2	6.4	6.4	6.2	6.4	6.5	6.8
Federal Reserve banks, credit intermediation, and related activities	2.5	2.5	2.7	2.6	2.8	3.1	3.1	2.9	2.8	2.9	3.1	3.1	3.1	2.9	2.9	2.9	2.9
Securities, commodity contracts, and investments	0.3	0.3	0.6	0.5	0.6	0.7	0.9	0.8	0.8	0.7	0.8	0.8	0.9	0.8	0.9	1.2	1.4
Insurance carriers and related activities	1.9	2.1	1.9	2.0	1.9	1.8	1.7	1.9	2.0	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.4
Funds, trusts, and other financial vehicles	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Real estate and rental and leasing	10.9	11.4	11.6	11.6	/11.7 /	11.8	11.7	11.7	11.6	11.7	11.7	11.8	11.9	11.8	12.0	11.9	11.9
Real estate	9.9	10.3	10.5	10.5	10.6	10.7	10.6	10.6	10.5	10.5	10.6	10.7	10.7	10.7	10.8	10.7	10.7
Rental and leasing services and lessors of intangible assets	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	V1.1/	1.1	1.1	1.2	1.2	1.2	1.2
Professional and business services	6.2	6.5	6.7	7.0	7.4	7.8	8.0	8.2	8.4	8.8	8.6	8.8	8.9	8.9	9.1	9.5	10.0
Professional, scientific, and technical services	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.9	51	5.4	5/3	5.4	5.4	5.4	5.5	5.7	6.0
Legal services	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3
Computer systems design and related services	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	<u></u> 0.5	0.6	0.6	0.6	0.7	0.8	0.9
Miscellaneous professional, scientific, and technical services	2.3	2.4	2.5	2.5	2.7	2.8	2.9	3.1	3.3	3.4	3.4	3.4	3.4	3.4	3.5	3.7	3.8
Management of companies and enterprises	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.4	1.4	1.4	1.3	1.3	1.4	1.3	1.4	1.4	1.5
Administrative and waste management services	1.4	1.4	1.4	1.5	1.6	1.7	1.8	1.9	1.9	2.1	2.0	2.1	2.1	2.2	2.3	2.4	2.5
Administrative and support services	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.3
Waste management and remediation services	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Educational services, health care, and social assistance	4.8	5.1	5.2	5.1	5.2	5.4	5.7	5.8	6.0	6.3	6.7	6.9	7.0	7.0	6.9	6.8	6.7
Educational services	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Health care and social assistance	4.1	4.4	4.6	4.5	4.6	4.7	5.0	5.1	5.3	5.6	6.0	6.1	6.3	6.2	6.1	6.0	5.9
Ambulatory health care services	1.9	2.0	2.1	2.1	2.2	2.3	2.5	2.5	2.6	2.8	3.0	3.1	3.1	3.1	3.1	3.0	2.9
Hospitals and nursing and residential care facilities	1.9	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.3	2.5	2.6	2.7	2.7	2.7	2.6	2.6	2.5
Social assistance	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Arts, entertainment, recreation, accommodation, and food services	2.9	3.0	3.1	3.0	3.1	3.2	3.2	3.2	3.3	3.4	3.4	3.4	3.4	3.3	3.4	3.4	3.5
Arts, entertainment, and recreation	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
Performing arts, spectator sports, museums, and related activities	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Amusements, gambling, and recreation industries	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5
Accommodation and food services	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
Accommodation	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
Food services and drinking places	1.6	1.7	1.7	1.7	1.7	1.8	1.7	1.8	1.8	1.8	1.8	1.7	1.8	1.7	1.7	1.7	1.7
Other services, except government	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6
Government	14.1	14.7	14.5	14.0	14.1	14.3	14.3	14.3	14.3	14.5	15.0	14.9	14.7	14.3	14.1	13.7	13.3
Federal	6.2	6.5	6.3	6.1	6.1	6.1	5.9	5.9	5.8	5.7	5.9	5.7	5.4	5.2	5.0	4.7	4.4
General government	5.5	5.8	5.6	5.5	5.4	5.4	5.3	5.3	5.1	5.1	5.2	5.0	4.8	4.5	4.3	4.1	3.9
Government enterprises	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6
State and local	7.9	8.2	8.1	7.9	8.0	8.2	8.3	8.3	8.5	8.8	9.1	9.2	9.2	9.1	9.1	9.0	8.9
General government	7.4	7.7	7.5	7.3	7.3	7.5	7.6	7.6	7.8	8.0	8.3	8.5	8.4	8.3	8.3	8.2	8.1
Government enterprises	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
SUM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 4Percentage Point Revisions in Value Added by Industry as	a Percentage of GDP																	
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Private industries	-1.5	-1.5	-1.5	-1.5	-1.5	-1.4	-1.5	-1.6	-1.6	-1.6	-1.4	-1.4	-1.1	-0.9	-0.7	-0.8	-0.6	-0.6
Agriculture, forestry, fishing, and hunting	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0
Farms				<u> </u>		\		•••				•••			0.0	0.0	0.0	0.0
Forestry, fishing, and related activities	1) 100	1	· -	0.0	100	~ " 0	0/	~ · ·	-	0/00	· •	•••		•••	0.0	0.0	0.0	0.0
Mining	0.0	0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1
Oil and gas extraction					() (/ \	1//	•••		•••	0.0	0.0	0.0	0.0
Mining, except oil and gas								1			\ \ \ / -/	•••		•••	0.0	0.0	-0.1	0.0
Support activities for mining		15	~ I][() ···		\ ' /	•••		•••	0.0	0.0	0.0	0.0
Utilities	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1
Construction	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Manufacturing	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.5
Durable goods	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.3
Wood products															0.0	-0.1	0.0	0.0
Nonmetallic mineral products															0.0	-0.1	0.0	-0.1
Primary metals												•••			-0.1	0.0	0.0	0.0
Fabricated metal products						•••	•••	•••	•••			•••			-0.1	0.0	0.0	0.0
Machinery	•••														0.1	0.0	0.0	0.0
Computer and electronic products															0.1	0.2	0.2	0.2
Electrical equipment, appliances, and components															0.0	0.0	0.0	0.1
Motor vehicles, bodies and trailers, and parts				•••				•••				•••			0.1	0.1	0.1	0.1
Other transportation equipment		•••	•••	•••		•••			•••	•••	•••	•••		•••	0.0	0.0	0.1	0.1
Furniture and related products															0.0	0.0	0.0	0.0
Miscellaneous manufacturing															0.0	0.0	0.0	0.0
Nondurable goods	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Food and beverage and tobacco products						•••					•••			•••	0.0	0.0	0.0	-0.1
Textile mills and textile product mills	•••														-0.1	0.0	0.0	0.0
Apparel and leather and allied products	•••														0.0	-0.1	0.0	0.0
Paper products	•••														0.0	0.0	0.0	0.0
Printing and related support activities	•••														0.0	0.0	0.0	0.0
Petroleum and coal products	•••														0.0	0.0	0.0	0.0
Chemical products															0.1	0.1	0.2	0.1
Plastics and rubber products						•••						•••			0.0	0.0	0.0	0.0
Wholesale trade	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.2
Retail trade	-0.2	-0.3	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1
Transportation and warehousing	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Air transportation	•••														0.0	0.0	-0.1	0.0
Rail transportation															-0.1	0.0	0.0	0.0
Water transportation															0.0	0.0	0.0	0.0
Truck transportation															0.0	0.0	0.0	0.0
Transit and ground passenger transportation															0.0	0.0	0.0	0.0
Pipeline transportation															0.0	0.0	0.0	0.0
Other transportation and support activities															-0.1	0.0	0.0	0.0
Warehousing and storage															0.0	-0.1	0.0	0.0
Information	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Publishing industries (includes software)															0.0	0.0	0.0	0.1
Motion picture and sound recording industries															0.2	0.2	0.2	0.2
Broadcasting and telecommunications															0.1	0.1	0.0	0.0
Information and data processing services							•••								0.0	0.0	0.0	0.0
Finance, insurance, real estate, rental, and leasing	-0.5	-0.4	-0.5	-0.4	-0.5	25 _{0.5}	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.4	-0.3

Table 4Percentage Point Revisions in Value Added by Industry as a Perc	centage of GDP																	
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Finance and insurance	-0.2	-0.1	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1
Federal Reserve banks, credit intermediation, and related activities				<u> </u>											0.0	-0.1	-0.1	-0.1
Securities, commodity contracts, and investments				<u></u>	•••	[0.0	0.0	0.0	0.0
Insurance carriers and related activities			_												-0.1	0.0	0.0	0.0
Funds, trusts, and other financial vehicles		1			V W))(- 1	1	1 1				0.0	0.0	0.0	0.0
Real estate and rental and leasing	-0.4	-0.4	-0.3	-0.3	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	-0.2
Real estate								/		\	1///				-0.2	-0.1	-0.1	-0.2
Rental and leasing services and lessors of intangible assets											\ V /				0.0	0.0	0.0	0.0
Professional and business services	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1
Professional, scientific, and technical services	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0
Legal services											<i>[]</i>				-0.1	0.0	0.0	-0.1
Computer systems design and related services											<i></i>				0.0	0.0	0.0	0.0
Miscellaneous professional, scientific, and technical services															0.0	0.0	0.0	0.0
Management of companies and enterprises	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
Administrative and waste management services	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administrative and support services															0.0	0.0	0.0	0.0
Waste management and remediation services															0.0	0.0	0.0	0.0
Educational services, health care, and social assistance	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1
Educational services	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health care and social assistance	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Ambulatory health care services															-0.1	-0.1	-0.1	0.0
Hospitals and nursing and residential care facilities															-0.1	-0.1	-0.1	-0.1
Social assistance															0.0	0.0	0.0	0.0
Arts, entertainment, recreation, accommodation, and food services	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	-0.1
Arts, entertainment, and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Performing arts, spectator sports, museums, and related activities										•••					0.0	0.0	0.0	0.0
Amusements, gambling, and recreation industries									•••	•••			•••	•••	0.0	0.0	0.0	0.0
Accommodation and food services	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0
Accommodation															0.0	0.0	0.0	0.0
Food services and drinking places															0.0	-0.1	0.0	0.0
Other services, except government	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1
Government	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.6	1.6	1.6	1.4	1.4	1.1	0.9	0.7	0.8	0.6	0.6
Federal	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.4	1.4	1.2	1.1	0.9	0.9	0.8	0.8
General government		•••		•••	•••	•••	•••		•••	•••		•••	•••	•••	0.9	0.9	0.8	0.8
Government enterprises															0.0	0.0	0.0	0.0
State and local	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	-0.1	-0.2	-0.1	-0.2	-0.2	-0.3
General government	•••														-0.2	-0.2	-0.1	-0.2
Government enterprises															0.0	0.0	0.0	0.0

Table 4.--Percentage Point Revisions in Value Added by Industry as a Percent

Table 4 Tercentage Fount Nevisions in Value Added by industry as a	reiteiit																
Debugge in desertation		1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Private industries		-0.5	-0.5	-0.6	-0.3	-0.3	-0.4	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	- 0.7	-0.7	- 0.6
Agriculture, forestry, fishing, and hunting		0.0	-0.1	0.0	-0.1	0.0 0.0	-0.1	-0.1 0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1
Farms		-0.1	-0.1	-0.1	0.0		0.0		0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1
Forestry, fishing, and related activities Mining	1 1	-0.1	0.0	0.0 -0.1	0.0	0.0	0.0 -0.1	0.0	0.0	0.0	0.0	0.0	0.0 -0.1	0.0 0.0	0.0 -0.1	0.0 0.0	0.0 0.0
Oil and gas extraction	$\square \square \square$	0.0	-0.1	0.0	0.0	0.0 /	0.0	0.0	7 0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
Mining, except oil and gas		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
Support activities for mining		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Utilities		-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.0
Construction		-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Manufacturing		0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.7
Durable goods		0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.5
Wood products		-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonmetallic mineral products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0
Primary metals		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fabricated metal products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
Machinery		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Computer and electronic products		0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electrical equipment, appliances, and components		0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Motor vehicles, bodies and trailers, and parts		0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.1
Other transportation equipment		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0
Furniture and related products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous manufacturing		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Nondurable goods		0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Food and beverage and tobacco products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1
Textile mills and textile product mills		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0
Apparel and leather and allied products		0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Printing and related support activities		0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum and coal products		0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Chemical products		0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Plastics and rubber products		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wholesale trade		-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2
Retail trade		-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2
Transportation and warehousing		-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	-0.1
Air transportation		0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Rail transportation		0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water transportation		0.0 -0.1	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 -0.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 -0.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
Truck transportation Transit and ground passenger transportation		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1 0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline transportation		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other transportation and support activities		0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Warehousing and storage		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Information		0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Publishing industries (includes software)		0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Motion picture and sound recording industries		0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.3
Broadcasting and telecommunications		0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2
Information and data processing services		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0
Finance, insurance, real estate, rental, and leasing		-0.4	-0.3	-0.4	-0.4	-0.4	27 _{-0.4}	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
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Table 4.--Percentage Point Revisions in Value Added by Industry as a Percent

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Finance and insurance	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2
Federal Reserve banks, credit intermediation, and related activities	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0
Securities, commodity contracts, and investments	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0
Insurance carriers and related activities	0.0	0.0	-0 <mark>.</mark> 1	-0.1	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0
Funds, trusts, and other financial vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Real estate and rental and leasing	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4
Real estate	-0.2	-0.2	-0.3	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3
Rental and leasing services and lessors of intangible assets	0.0	0.0	-0 <mark>.</mark> 1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	-0.1	-0.1	0.0	0.0	-0.1
Professional and business services	-0.1	0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2
Professional, scientific, and technical services	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Legal services	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	ø .0	-0.1	0.0	-0.1	0.0	0.0
Computer systems design and related services	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous professional, scientific, and technical services	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0
Management of companies and enterprises	0.0	-0.1	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0
Administrative and waste management services	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administrative and support services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1
Waste management and remediation services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
Educational services, health care, and social assistance	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2
Educational services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
Health care and social assistance	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.1	-0.3	-0.1	-0.1	-0.2	-0.2
Ambulatory health care services	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	0.0	-0.1
Hospitals and nursing and residential care facilities	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1
Social assistance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arts, entertainment, recreation, accommodation, and food services	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Arts, entertainment, and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Performing arts, spectator sports, museums, and related activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amusements, gambling, and recreation industries	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0
Accommodation and food services	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Accommodation	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
Food services and drinking places	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1
Other services, except government	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Government	0.5	0.5	0.6	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6
Federal	0.7	0.8	0.7	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.3
General government	0.8	0.8	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4
Government enterprises	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
State and local	-0.2	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	0.0	0.1	0.1	0.3	0.2	0.2	0.2	0.3
General government	-0.2	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.1	0.3	0.2	0.2	0.2	0.2
Government enterprises	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Table 5.-- Input-Output Ratios

Table 5 Input-Output Ratios																		
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Private industries	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.47	0.49	0.47	0.48	0.49	0.48	0.49	0.50
Agriculture, forestry, fishing, and hunting	0.53	0.54	0.52	0.53	0.55	0.55	0.54	0.54	0.54	0.54	0.50	0.53	0.52	0.56	0.57	0.58	0.58	0.62
Farms	(· · ·					<u></u>								0.56	0.57	0.57	0.63
Forestry, fishing, and related activities		<u> </u>	· / - /				~ =	~~	-	000					0.62	0.61	0.60	0.57
Mining	0. <mark>4</mark> 6	0.47	0.49	0,49	0.49	0.48	0.50	0.50	0.49	0.49	0.48	0.48	0.49	0.49	0.48	0.48	0.53	0.47
Oil and gas extraction		1 1	1-1-6	<u> </u>		()(]			(C)	1 //		•••		0.42	0.40	0.46	0.38
Mining, except oil and gas		/									\ \ <i>\</i>				0.50	0.51	0.54	0.57
Support activities for mining			\		<u> </u> .				(()		\ V /				0.62	0.64	0.69	0.64
Utilities	0.37	0.36	0.36	0.36	0.36	0.35	0.34	0.35	0.32	0.33	0.34	0.43	0.40	0.43	0.45	0.48	0.54	0.53
Construction	0.59	0.58	0.58	0.56	0.55	0.57	0.56	0.54	0.58	0.60	0.58	0.55	0.54	0.53	0.56	0.56	0.56	0.54
Manufacturing	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.62	0.64	0.67	0.66	0.65	0.66	0.66	0.66	0.68
Durable goods	0.57	0.57	0.57	0.57	0.56	0.57	0.57	0.58	0.58	0.58	0.60	0.62	0.61	0.60	0.61	0.61	0.62	0.62
Wood products															0.67	0.63	0.62	0.67
Nonmetallic mineral products								•••		•••	•••				0.55	0.56	0.56	0.58
Primary metals								•••		•••	•••				0.67	0.66	0.67	0.67
Fabricated metal products															0.58	0.59	0.59	0.58
Machinery															0.48	0.49	0.50	0.50
Computer and electronic products															0.58	0.59	0.60	0.60
Electrical equipment, appliances, and components															0.53	0.53	0.54	0.54
Motor vehicles, bodies and trailers, and parts	···														0.69	0.70	0.72	0.75
Other transportation equipment	•••													•••	0.62	0.62	0.64	0.66
Furniture and related products	···														0.57	0.57	0.59	0.57
Miscellaneous manufacturing	***	•••	•••	•••		•••			•••		•••	•••			0.61	0.61	0.61	0.62
Nondurable goods	0.68	0.67	0.67	0.66	0.67	0.66	0.66	0.65	0.65	0.66	0.69	0.72	0.71	0.71	0.71	0.72	0.72	0.74
Food and beverage and tobacco products	0.00	0.07	0.07	0.00	0.07	0.00	0.00	0.03	0.00	0.00	0.03	0.72	02	0., 1	0.75	0.77	0.77	0.77
Textile mills and textile product mills	•••	•••	•••	•••	•••		•••			•••	•••	•••		•••	0.73	0.69	0.69	0.70
Apparel and leather and allied products	•••			•••	•••	•••		•••	•••	•••	•••	•••	•••	•••	0.63	0.62	0.61	0.62
Paper products				•••		•••		•••	•••	•••	•••		•••		0.64	0.64	0.64	0.66
		•••	•••	•••	•••	•••	•••				•••	•••	•••	•••	0.57	0.57	0.55	0.59
Printing and related support activities	•••			•••		•••	•••	•••	•••	•••			•••					0.59
Petroleum and coal products	•••			•••		•••	•••	•••	•••	•••			•••		0.90	0.90	0.86	0.90
Chemical products	•••				•••	•••	•••	•••	•••	•••	•••		•••	•••	0.63	0.63	0.64	
Plastics and rubber products		0.10	0.22	0.24	0.22	0.10		0.10			0.17			0.25	0.59	0.59	0.59	0.60
Wholesale trade	0.16	0.18	0.23	0.24	0.22	0.19	0.18	0.19	0.18	0.18	0.17	0.19	0.13	0.25	0.29	0.26	0.22	0.35
Retail trade	0.41	0.39	0.39	0.38	0.35	0.32	0.31	0.30	0.28	0.29	0.27	0.32	0.23	0.29	0.30	0.27	0.26	0.39
Transportation and warehousing	0.41	0.41	0.41	0.41	0.43	0.43	0.46	0.46	0.45	0.44	0.44	0.46	0.47	0.45	0.47	0.48	0.47	0.51
Air transportation				•••		•••		•••		•••			•••		0.59	0.60	0.54	0.65
Rail transportation				•••			•••						•••	•••	0.36	0.34	0.35	0.38
Water transportation	•••									•••					0.78	0.78	0.78	0.78
Truck transportation	•••									•••					0.45	0.46	0.45	0.44
Transit and ground passenger transportation	•••			•••		•••		•••	•••	•••			•••		0.55	0.54	0.54	0.49
Pipeline transportation		•••		•••			•••				•••	•••			0.65	0.74	0.72	0.72
Other transportation and support activities				•••			•••						•••		0.34	0.34	0.32	0.40
Warehousing and storage													•••		0.14	0.12	0.13	0.19
Information	0.33	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.33	0.33	0.35	0.36	0.36	0.35	0.34	0.34	0.34	0.33
Publishing industries (includes software)				•••							•				0.45	0.46	0.46	0.49
Motion picture and sound recording industries	•••	•••		•••		•••	•••	•••		•••	•••	•••	•••	•••	0.35	0.28	0.28	0.25
Broadcasting and telecommunications															0.29	0.28	0.28	0.26
Information and data processing services															0.46	0.47	0.49	0.48
Finance, insurance, real estate, rental, and leasing	0.25	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.28	0.28	0.27	0.27	0.28	0.27	0.28	0.28	0.27	0.25
Finance and insurance	0.46	0.47	0.47	0.47	0.44	0.45	0.44	0.45	0.44	0.45	0.45	0.44	0.45	0.44	0.41	0.41	0.39	0.39
Federal Reserve banks, credit intermediation, and related activities			•••												0.31	0.33	0.28	0.26
Securities, commodity contracts, and investments			•••				29								0.26	0.29	0.33	0.56
Insurance carriers and related activities															0.47	0.46	0.46	0.42

Table 5.-- Input-Output Ratios

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Funds, trusts, and other financial vehicles											•••				0.93	0.90	0.90	0.86
Real estate and rental and leasing	0.15	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.18	0.19	0.17	0.17	0.17	0.17	0.19	0.20	0.19	0.17
Real estate	f		•••		().										0.20	0.20	0.20	0.18
Rental and leasing services and lessors of intangible assets		<u> </u>	بر ۱۱۰ پس				~ =	~~	-	0.00					0.13	0.12	0.15	0.15
Professional and business services	0. <mark>3</mark> 8	0.38	0.37	0.38	0.37	0.37	0.37	0.38	0.37	0.36	0.36	0.36	0.35	0.34	0.32	0.32	0.32	0.32
Professional, scientific, and technical services	0. <mark>44 -</mark>	0.43	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.89	0.38	0.37	0.36	0.32	0.33	0.32	0.32
Legal services		_/			-						\ \ / /				0.32	0.34	0.29	0.31
Computer systems design and related services									()		\ V /				0.36	0.32	0.35	0.36
Miscellaneous professional, scientific, and technical services									1		1		•••	•••	0.32	0.32	0.33	0.32
Management of companies and enterprises	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Administrative and waste management services	0.31	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
Administrative and support services											<u> </u>				0.30	0.30	0.30	0.30
Waste management and remediation services															0.48	0.46	0.46	0.48
Educational services, health care, and social assistance	0.36	0.38	0.38	0.37	0.35	0.35	0.35	0.34	0.35	0.34	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35
Educational services	0.47	0.46	0.46	0.46	0.46	0.45	0.42	0.41	0.39	0.35	0.35	0.37	0.37	0.41	0.42	0.43	0.43	0.43
Health care and social assistance	0.33	0.35	0.35	0.34	0.32	0.33	0.33	0.32	0.33	0.33	0.33	0.32	0.32	0.32	0.33	0.32	0.32	0.33
Ambulatory health care services											•••				0.23	0.21	0.21	0.23
Hospitals and nursing and residential care facilities											•••				0.41	0.41	0.40	0.41
Social assistance	•••						•••				•••				0.35	0.34	0.35	0.36
Arts, entertainment, recreation, accommodation, and food services	0.46	0.45	0.46	0.46	0.45	0.46	0.47	0.48	0.46	0.48	0.48	0.50	0.50	0.49	0.47	0.46	0.46	0.48
Arts, entertainment, and recreation	0.34	0.34	0.32	0.33	0.34	0.34	0.38	0.38	0.38	0.38	0.37	0.39	0.41	0.40	0.36	0.34	0.33	0.36
Performing arts, spectator sports, museums, and related activities							•••				•••			•••	0.45	0.42	0.41	0.44
Amusements, gambling, and recreation industries	•••						•••				•••				0.27	0.27	0.26	0.29
Accommodation and food services	0.49	0.48	0.49	0.49	0.48	0.49	0.49	0.50	0.48	0.50	0.51	0.52	0.52	0.51	0.50	0.49	0.49	0.51
Accommodation															0.32	0.29	0.30	0.33
Food services and drinking places															0.55	0.54	0.54	0.56
Other services, except government	0.36	0.36	0.38	0.37	0.39	0.38	0.36	0.37	0.35	0.33	0.33	0.33	0.35	0.35	0.38	0.35	0.35	0.30
Government	0.24	0.23	0.23	0.25	0.26	0.26	0.26	0.24	0.24	0.24	0.23	0.25	0.26	0.25	0.26	0.27	0.28	0.29
Federal	0.24	0.22	0.23	0.25	0.28	0.28	0.27	0.23	0.22	0.22	0.21	0.22	0.22	0.21	0.23	0.23	0.25	0.27
General government		•••	•••			•••	•••	•••	•••		•••		•••	•••	0.22	0.23	0.24	0.27
Government enterprises		•••									•••				0.25	0.26	0.27	0.27
State and local	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.27	0.28	0.28	0.29	0.29	0.30	0.30
General government															0.27	0.27	0.27	0.27
Government enterprises															0.44	0.47	0.50	0.53

Table 5.-- Input-Output Ratios

Table 3 Impat-output Natios	4004	1003	4003	4004	4005	4000	4007	4000	4000	4000	4004	4003	4002	4004	1005	1000	1007
Private industries	1981	1982	1983	1984	1985 0.46	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Agriculture, forestry, fishing, and hunting	0.49	0.48	0.47	0.47		0.44	0.46	0.46	0.46	0.46 0.54	0.45	0.44 0.54	0.44 0.59	0.45	0.45	0.46 0.56	0.45 0.58
Farms	0.58 0.57	0.58	0.63 0.65	0.58 0.59	0.55	0.55 0.57	0.54	0.57 0.60	0.55 0.57	0.54	0.57 0.60	0.56	0.59	0.56 0.58	0.61 0.64	0.57	0.58
Forestry, fishing, and related activities	0.59			0.52					0.37		0.41	0.45	0.01	0.46	0.45	0.37	0.46
,		0.53	0.53		0.46	0.46	0.35	0.41		0.41							
Mining	0.46	0.45	0.46	0.48		0.45		0.45	0.44	1	0.47	0.48	0.47	0.45	0.44	0.44	0.44
Oil and gas extraction	0.37	0.37	0.40	0.42	0.37	0.36	0.37	0.38	0.36	0.36	0.41	0.45	0.44	0.41	0.39	0.40	0.40
Mining, except oil and gas	0.57	0.51	0.54	0.54	0.55	0.56	0.57	0.53	0.53	0.54	0.54	0.52	0.52	0.50	0.51	0.50	0.50
Support activities for mining	0.60	0.58	0.61	0.61	0.57	0.55	0.52	0.50	0.51	0.52	0.50	0.50	0.48	0.46	0.42	0.45	0.46
Utilities	0.52	0.49	0.48	0.43 0.59	0.37 0.59	0.28	0.33	0.36	0.34	0.32	0.32	0.32	0.34	0.31	0.30	0.34	0.37
Construction	0.56	0.56	0.58			0.57	0.57	0.55	0.54	0.54	0.53	0.54	0.54	0.53	0.53	0.53	0.53
Manufacturing	0.67	0.66	0.65	0.65	0.64	0.62	0.63	0.63	0.63	0.63	0.62	0.63	0.63	0.63	0.64	0.64	0.64
Durable goods	0.61	0.60	0.60	0.59	0.59	0.58	0.59	0.59	0.59	0.59	0.58	0.59	0.60	0.61	0.62	0.61	0.62
Wood products	0.69	0.69	0.64	0.65	0.64	0.61	0.64	0.65	0.64	0.65	0.65	0.68	0.69	0.69	0.68	0.70	0.70
Nonmetallic mineral products	0.60	0.62	0.57	0.55	0.53	0.51	0.59	0.57	0.56	0.58	0.58	0.55	0.56	0.53	0.54	0.57	0.52
Primary metals	0.66	0.67	0.72	0.69	0.70	0.67	0.70	0.70	0.69	0.70	0.69	0.69	0.69	0.69	0.70	0.71	0.70
Fabricated metal products	0.58	0.59	0.57	0.55	0.53	0.53	0.53	0.54	0.53	0.53	0.53	0.53	0.53	0.52	0.53	0.52	0.53
Machinery	0.49	0.49	0.48	0.50	0.52	0.54	0.54	0.52	0.52	0.51	0.53	0.52	0.55	0.58	0.59	0.60	0.60
Computer and electronic products	0.58	0.60	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.56	0.55	0.56	0.57	0.58	0.59	0.59	0.58
Electrical equipment, appliances, and components	0.51	0.54	0.52	0.52	0.50	0.50	0.50	0.51	0.49	0.48	0.47	0.50	0.51	0.52	0.55	0.56	0.55
Motor vehicles, bodies and trailers, and parts	0.72	0.72	0.72	0.70	0.69	0.69	0.71	0.71	0.73	0.75	0.74	0.73	0.72	0.72	0.73	0.72	0.74
Other transportation equipment	0.68	0.53	0.52	0.47	0.53	0.52	0.49	0.52	0.53	0.55	0.50	0.56	0.56	0.60	0.60	0.56	0.60
Furniture and related products	0.57	0.58	0.55	0.54	0.54	0.53	0.57	0.56	0.56	0.57	0.57	0.56	0.55	0.57	0.57	0.55	0.56
Miscellaneous manufacturing	0.59	0.59	0.58	0.56	0.53	0.53	0.58	0.51	0.51	0.49	0.49	0.49	0.51	0.52	0.54	0.50	0.50
Nondurable goods	0.73	0.73	0.71	0.71	0.70	0.67	0.69	0.68	0.68	0.68	0.67	0.66	0.66	0.66	0.66	0.67	0.66
Food and beverage and tobacco products	0.76	0.75	0.73	0.75	0.74	0.73	0.74	0.75	0.75	0.73	0.72	0.72	0.73	0.73	0.71	0.73	0.74
Textile mills and textile product mills	0.70	0.69	0.69	0.69	0.68	0.66	0.69	0.69	0.69	0.67	0.67	0.65	0.66	0.68	0.69	0.69	0.69
Apparel and leather and allied products	0.62	0.64	0.63	0.64	0.63	0.62	0.66	0.65	0.63	0.63	0.63	0.63	0.64	0.64	0.65	0.66	0.68
Paper products	0.66	0.65	0.65	0.64	0.63	0.62	0.62	0.61	0.62	0.63	0.62	0.62	0.61	0.62	0.62	0.62	0.63
Printing and related support activities	0.59	0.60	0.59	0.59	0.57	0.57	0.60	0.60	0.59	0.60	0.59	0.58	0.59	0.59	0.61	0.60	0.61
Petroleum and coal products	0.91	0.91	0.90	0.91	0.88	0.83	0.84	0.77	0.78	0.79	0.78	0.78	0.73	0.75	0.78	0.80	0.74
Chemical products	0.63	0.61	0.60	0.63	0.63	0.61	0.62	0.63	0.63	0.61	0.60	0.59	0.59	0.57	0.57	0.57	0.57
Plastics and rubber products	0.59	0.60	0.58	0.60	0.59	0.59	0.63	0.64	0.62	0.64	0.62	0.62	0.61	0.62	0.64	0.63	0.63
Wholesale trade	0.33	0.28	0.22	0.25	0.25	0.26	0.30	0.30	0.29	0.31	0.29	0.29	0.30	0.30	0.33	0.31	0.30
Retail trade	0.36	0.33	0.29	0.26	0.29	0.27	0.33	0.31	0.31	0.32	0.32	0.32	0.31	0.32	0.32	0.31	0.30
Transportation and warehousing	0.49	0.51	0.49	0.49	0.47	0.44	0.46	0.48	0.49	0.51	0.49	0.48	0.47	0.47	0.48	0.48	0.47
Air transportation	0.60	0.66	0.62	0.63	0.64	0.64	0.64	0.59	0.60	0.60	0.59	0.57	0.54	0.52	0.53	0.54	0.52
Rail transportation	0.41	0.44	0.39	0.40	0.37	0.29	0.36	0.39	0.47	0.48	0.43	0.45	0.45	0.46	0.49	0.50	0.53
Water transportation	0.78	0.78	0.77	0.76	0.75	0.75	0.73	0.74	0.73	0.72	0.70	0.70	0.70	0.69	0.71	0.72	0.71
Truck transportation	0.45	0.44	0.45	0.45	0.42	0.39	0.44	0.50	0.50	0.53	0.52	0.53	0.52	0.51	0.51	0.51	0.50
Transit and ground passenger transportation	0.52	0.54	0.53	0.51	0.52	0.50	0.52	0.51	0.52	0.52	0.51	0.50	0.48	0.46	0.46	0.44	0.39
Pipeline transportation	0.68	0.64	0.63	0.65	0.64	0.70	0.67	0.70	0.69	0.69	0.68	0.68	0.69	0.69	0.69	0.70	0.70
Other transportation and support activities	0.36	0.40	0.36	0.33	0.27	0.22	0.22	0.27	0.27	0.29	0.27	0.28	0.27	0.27	0.30	0.29	0.29
Warehousing and storage	0.19	0.15	0.14	0.15	0.10	0.10	0.09	0.12	0.12	0.14	0.13	0.13	0.14	0.14	0.16	0.16	0.15
Information	0.33	0.36	0.35	0.37	0.35	0.37	0.37	0.38	0.36	0.36	0.36	0.36	0.36	0.37	0.39	0.40	0.44
Publishing industries (includes software)	0.48	0.49	0.49	0.49	0.45	0.47	0.49	0.50	0.49	0.50	0.50	0.48	0.50	0.50	0.53	0.51	0.52
Motion picture and sound recording industries	0.27	0.30	0.31	0.31	0.30	0.31	0.28	0.33	0.28	0.32	0.34	0.36	0.34	0.37	0.35	0.34	0.34
Broadcasting and telecommunications	0.26	0.30	0.29	0.32	0.32	0.34	0.34	0.34	0.33	0.31	0.31	0.30	0.30	0.30	0.33	0.36	0.44
Information and data processing services	0.48	0.49	0.47	0.44	0.39	0.40	0.25	0.30	0.32	0.33	0.34	0.32	0.34	0.36	0.39	0.39	0.39
Finance, insurance, real estate, rental, and leasing	0.24	0.26	0.29	0.28	0.31	0.31	0.32	0.33	0.33	0.33	0.32	0.31	0.32	0.33	0.33	0.34	0.34
Finance and insurance	0.35	0.39	0.46	0.45	0.49	0.47	0.46	0.46	0.45	0.43	0.41	0.39	0.42	0.43	0.43	0.44	0.44
Federal Reserve banks, credit intermediation, and related activities	0.21	0.27	0.41	0.37	0.39	0.36	0.34	0.37	0.35	0.32	0.29	0.28	0.30	0.33	0.37	0.40	0.42
Securities, commodity contracts, and investments	0.54	0.61	0.51	0.47	0.46	0.54 31	0.36	0.30	0.36	0.36	0.42	0.40	0.41	0.45	0.46	0.44	0.41
Insurance carriers and related activities	0.40	0.39	0.47	0.49	0.57	0.54	0.58	0.55	0.54	0.52	0.49	0.45	0.49	0.48	0.44	0.44	0.41

Table 5.-- Input-Output Ratios

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Funds, trusts, and other financial vehicles	0.75	0.78	0.76	0.77	0.72	0.72	0.79	0.79	0.81	0.78	0.76	0.72	0.75	0.76	0.78	0.81	0.84
Real estate and rental and leasing	0.17	0.18	0.17	0.17	0.18	0.20	0.22	0.25	0.25	0.27	0.26	0.26	0.26	0.27	0.26	0.27	0.27
Real estate	0.17	0.17	0.17	0.16	0.18	0.20	0.22	0.25	0.25	0.27	0.27	0.26	0.26	0.26	0.25	0.27	0.26
Rental and leasing services and lessors of intangible assets	0.18	0.21	0.21	0.22	0.22	0.22	0.21	0.25	0.25	0.25	0.25	0.25	0.26	0.27	0.27	0.28	0.28
Professional and business services	0 <mark>.33</mark>	0.33	0.32	0.32	0.32	0.31	0.31	0,33	0.33	0.33	0.33	0.33	0.33	0.33	0.35	0.35	0.35
Professional, scientific, and technical services	0 <mark>.34</mark>	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.31	0.30	0.30	0.30	0.32	0.33	0.33
Legal services	0 <mark>.36</mark>	0.3 3	0.29	0.26	0.27	0.2 <mark>4</mark>	0.26	0.24	0.25	0.25	0.25	0.25	0.26	0.27	0.26	0.27	0.29
Computer systems design and related services	0 <mark>.37</mark>	0. <mark>3</mark> 9	0.33	0.32	0.27	0.27	0.14	0.16	0.18	0.18	0.19	0.17	0.20	0.22	0.29	0.33	0.26
Miscellaneous professional, scientific, and technical services	0 <mark>.33</mark>	0.34	0.34	0.35	0.35	0.3 <mark>6</mark>	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.33	0.35	0.36	0.36
Management of companies and enterprises	0.29	0.29	0.29	0.28	0.27	0.27	0.26	0.33	0.34	0.35	0.37	0.38	0.37	0.39	0.39	0.38	0.36
Administrative and waste management services	0.33	0.34	0.34	0.34	0.34	0.33	0.33	0.36	0.37	0.37	0.38	0.36	0.36	0.37	0.38	0.38	0.38
Administrative and support services	0.31	0.31	0.32	0.31	0.31	0.31	0.31	0.35	0.35	0.35	0.36	0.34	0.35	0.36	0.37	0.37	0.37
Waste management and remediation services	0.47	0.48	0.46	0.48	0.50	0.46	0.44	0.47	0.46	0.47	0.46	0.46	0.46	0.46	0.46	0.47	0.47
Educational services, health care, and social assistance	0.36	0.36	0.36	0.37	0.37	0.37	0.36	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.37	0.38	0.39
Educational services	0.44	0.45	0.43	0.42	0.42	0.43	0.41	0.43	0.44	0.45	0.43	0.42	0.42	0.41	0.41	0.42	0.41
Health care and social assistance	0.35	0.35	0.35	0.36	0.36	0.37	0.36	0.38	0.37	0.36	0.36	0.37	0.36	0.35	0.37	0.38	0.38
Ambulatory health care services	0.25	0.24	0.26	0.27	0.29	0.30	0.29	0.32	0.30	0.30	0.30	0.32	0.31	0.31	0.33	0.34	0.35
Hospitals and nursing and residential care facilities	0.42	0.41	0.42	0.42	0.42	0.42	0.41	0.43	0.42	0.41	0.41	0.42	0.40	0.40	0.41	0.42	0.42
Social assistance	0.37	0.41	0.38	0.38	0.39	0.38	0.40	0.46	0.43	0.43	0.40	0.36	0.36	0.36	0.36	0.38	0.38
Arts, entertainment, recreation, accommodation, and food services	0.48	0.48	0.46	0.46	0.45	0.44	0.46	0.47	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.44
Arts, entertainment, and recreation	0.37	0.38	0.38	0.38	0.36	0.34	0.32	0.35	0.31	0.29	0.30	0.29	0.33	0.35	0.37	0.38	0.35
Performing arts, spectator sports, museums, and related activities	0.44	0.44	0.43	0.41	0.39	0.34	0.30	0.33	0.29	0.28	0.29	0.28	0.31	0.33	0.35	0.36	0.33
Amusements, gambling, and recreation industries	0.31	0.32	0.33	0.34	0.33	0.34	0.33	0.36	0.33	0.31	0.31	0.30	0.35	0.38	0.39	0.40	0.37
Accommodation and food services	0.50	0.50	0.48	0.48	0.47	0.47	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.47
Accommodation	0.35	0.36	0.34	0.37	0.38	0.37	0.41	0.42	0.41	0.41	0.39	0.41	0.40	0.40	0.40	0.39	0.38
Food services and drinking places	0.55	0.54	0.53	0.52	0.51	0.50	0.53	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.50
Other services, except government	0.29	0.30	0.31	0.32	0.34	0.33	0.36	0.37	0.37	0.37	0.36	0.38	0.36	0.36	0.38	0.39	0.38
Government	0.30	0.30	0.31	0.30	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.30	0.30	0.30	0.31	0.31
Federal	0.28	0.29	0.30	0.28	0.29	0.30	0.30	0.28	0.28	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.29
General government	0.28	0.29	0.30	0.29	0.30	0.31	0.30	0.28	0.28	0.29	0.29	0.28	0.27	0.28	0.27	0.28	0.28
Government enterprises	0.29	0.28	0.27	0.26	0.27	0.28	0.31	0.29	0.29	0.32	0.29	0.24	0.28	0.27	0.30	0.32	0.30
State and local	0.31	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.31	0.31	0.32	0.32	0.32
General government	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.30
Government enterprises	0.56	0.58	0.57	0.56	0.54	0.54	0.51	0.49	0.48	0.47	0.48	0.47	0.47	0.48	0.48	0.47	0.47