

Improved Estimates of Gross Product by Industry for 1947–98

By Sherlene K.S. Lum, Brian C. Moyer, and Robert E. Yuskavage

IN THIS article, the Bureau of Economic Analysis (BEA) presents new estimates of gross product, or gross product originating (GPO), by industry for 1998 and revised estimates for 1947–97.¹ The estimates reflect the results of the recent comprehensive revision of the national income and product accounts (NIPA's), and they incorporate newly available source data and methodological changes for GPO by industry. (See the box "Gross Product Originating: Definition and Relationship to Gross Domestic Product.")

As part of this comprehensive revision of the GPO estimates, the double-deflation method for computing real GPO was extended to all industries, starting with the estimates for 1987.² The extension of the double-deflation method required the development of time series of gross output and

intermediate inputs for all industries, also starting with 1987. The availability of these integrated estimates of gross output, intermediate inputs, and GPO opens new possibilities for economic and industrial analysis. (See the box "GPO Estimates as a Set of Accounts.")

Using the double-deflation method improves the real GPO estimates in two ways. First, the GPO estimates can now incorporate more complete information on industry output, inputs, and prices, so the preparation of the estimates requires fewer assumptions about the relationships among industry outputs and inputs. Second, the source data on prices used to prepare the estimates of real GPO are now more consistent with the source data on prices used to prepare the estimates of real gross domestic product (GDP). As a result, the growth rates of real GPO are now more consistent with those of real GDP, thus increasing the reliability of the computed measures of industry contributions to real GDP growth.

Improvements from the comprehensive NIPA revision that were incorporated into this GPO re-

1. For the previously published estimates, see Sherlene K.S. Lum and Brian C. Moyer, "Gross Product by Industry, 1995–97," *Survey of Current Business* 78 (November 1998): 20–40; and Sherlene K.S. Lum and Robert E. Yuskavage, "Gross Product by Industry, 1947–96," *Survey* 77 (November 1997): 20–34.

2. Double-deflation is the preferred method for computing industry real GPO because it requires fewer assumptions about the relationships among gross output and intermediate inputs. It is not the preferred method for the three industries—private households, Federal general government, and State and local general government—for which gross output and GPO are equivalent.

Gross Product Originating: Definition and Relationship to Gross Domestic Product

Gross product, or gross product originating (GPO), by industry is the contribution of each private industry and government to the Nation's output, or gross domestic product (GDP). An industry's GPO, or its "value added," is equal to its gross output (which consists of sales or receipts and other operating income, commodity taxes, and inventory change) minus its intermediate inputs (which consist of energy, raw materials, semifinished goods, and services that are purchased from domestic industries or from foreign sources).

For the national income and product accounts (NIPA's), GDP is measured as the sum of the expenditure components and is benchmarked to the input-output accounts. Gross domestic income (GDI) measures output as the sum of the costs incurred and the incomes earned in the production of GDP. In concept, GDP and GDI should be equal; in practice, they differ because their components are estimated using largely independent and less-than-perfect source data. The difference between GDP and GDI is the "statistical discrepancy," which is

recorded in the NIPA's as an "income" component that reconciles GDI with GDP. BEA views GDP as the more reliable measure of output, because the source data underlying the estimates of expenditures are considered to be more accurate.¹

Current-dollar GPO by industry is measured as the sum of distributions by industry of the components of GDI that are attributable to labor and property in the United States. Consequently, the sum of the current-dollar GPO estimates also differs from current-dollar GDP by the statistical discrepancy. In the GPO estimates, the statistical discrepancy is included in the GPO of private industries because of BEA's view that most of the measurement problems with the components of GDI affect the GPO of private industries rather than the GPO of general government or government enterprises.

1. See the box "The Statistical Discrepancy," *Survey of Current Business* 77 (August 1997): 19; and "Note on Alternative Measures of Gross Product by Industry," *Survey* 77 (November 1997): 84–8.

vision include the recognition of business purchases and government expenditures for software, including own-account production of software, as investment and the incorporation of improved NIPA estimates of the real value of banking services into the gross output and GPO estimates for depository institutions.³ Other major improvements that were incorporated include more recent data on industry intermediate inputs from the 1992 benchmark input-output (I-O) accounts and the 1996 annual I-O accounts and improved industry distributions of indirect business taxes.

Two other improvements are related to the conversion of NIPA income components from a company basis to an establishment basis: The conversion of corporate net interest from a com-

pany basis to an establishment basis to parallel the treatment of other corporate property-type income and the incorporation of a newly available 1992 employment matrix for the estimation of corporate property-type income on an establishment basis.

The major results from this GPO revision include the following.

- The real GPO growth rate for private industries was revised up 0.3 percentage point for 1977–97, which is consistent with the 0.3-percent upward revision to the growth rate in real GDP.
- The industry shares of current-dollar GDP were largely unrevised, but the share for finance, insurance, and real estate (FIRE) was revised down 0.2 percentage point for 1987 and 0.5 percentage point for 1997.

3. See Eugene P. Seskin, "Improved Estimates of the National Income and Product Accounts for 1959–98: Results of the Comprehensive Revision," *Survey* 79 (December 1999): 15–39.

GPO Estimates as a Set of Accounts

A major element of this comprehensive revision of the gross product originating (GPO) by industry estimates is the development of an integrated set of estimates of gross output, intermediate inputs, and GPO for all industries, beginning with 1987. As a result, the GPO estimates are now a consistent set of industry production accounts that are more closely integrated with BEA's national income and product accounts and input-output accounts, thus opening new possibilities for analysis of structural change, industrial performance, and output per employee. In addition, the development of the new estimates of gross output enables the extension of the double-deflation method for computing real GPO to all industries, thus improving the reliability of the real GPO estimates and their consistency with estimates of real GDP.

Gross output, intermediate inputs, and GPO are now generally derived from a consistent framework based on an industry production account that depicts how an industry uses both intermediate inputs and value-added inputs (GPO) to produce its gross output. The industry production account is a key component in international guidelines for the development of integrated economic accounts.

Gross output and GPO are both important measures of industry output. Many economists prefer to use gross output in studies of industry production and output per employee because it reflects the use of both primary and secondary inputs.¹ Until recently, the lack of gross output measures for many services industries limited the analytical possibilities for the nonmanufacturing group. These gaps in available gross output measures were largely attributable to the lack of detailed source data for current-dollar gross output and for price indexes, but they were also partly due to conceptual problems in defining the output of some services industries—such as depository institu-

tions, which includes banking, and business services, which includes computer services. As a result, some analysts used GPO as an output measure because of GPO's comprehensive coverage and widespread availability from the national economic accounts of most countries.

The availability of an integrated set of industry production accounts that includes estimates of gross output, intermediate inputs, and GPO opens new possibilities for analysis of structural change, industry performance, and output per employee. For example, analysts can examine the substitution of purchased services for labor input (outsourcing), the changes in cost-price markup patterns over time and across industries, and the changes in output per employee for nonmanufacturing industries and manufacturing industries. Several of the nonmanufacturing industries for which estimates of gross output and intermediate inputs are available for the first time—including depository institutions and business services—have invested significantly in information technology in recent years, and these new estimates may help in assessing the impact of these investments on output.

Some of the problems that have limited the availability of gross output estimates and the use of the double-deflation method remain. For example, problems persist in defining the gross output of many services industries, and limitations remain in the methodology that uses cost indexes as proxies for output-price indexes. Nevertheless, the real GPO by industry estimates have been significantly improved, because fewer assumptions are required about the relationship between gross output and intermediate inputs. More importantly, a framework has been established for incorporating the new producer price indexes (PPI's) for services industries that began in 1995 and any additional PPI's from the Bureau of Labor Statistics. These improvements in source data will continue to improve the quality of the gross output and real GPO estimates and will further enhance their analytical value and their consistency with the estimates of GDP.

1. For example, see Bureau of Labor Statistics (BLS), "Industry Productivity Measures" in *BLS Handbook of Methods*, BLS Bulletin 2490 (Washington, DC: U.S. Government Printing Office, 1997).

- The revisions did not affect the long-term trend of falling shares of current-dollar GDP for private goods-producing industries and rising shares for private services-producing industries.
- FIRE and services together contributed 1.1 percentage points to the 3.0-percent growth in real GDP in 1987–98.
- FIRE and services together contributed 1.4 percentage points to the 2.6-percent growth in GDP prices in 1987–98.

This article is presented in four parts. The first part discusses the relative performance of industries in terms of real growth rates, contributions to real GDP growth, shares of current-dollar GDP, and the composition of current-dollar GPO. The second part discusses the estimates of GPO prices and unit costs. The third part describes the changes in methodology and presentation, and the fourth part describes the methodology used to prepare the GPO estimates. The detailed GPO estimates for 1987–98 are presented in tables 1–14 at the end of the article. (See the box “Data Availability” on page 34.)

Industry Growth, Contributions, Shares, and Composition

The relative performance of particular industries or industry groups can be assessed by examining

their real GPO growth rates, their contributions to real GDP growth, their shares of GDP, and the composition of their current-dollar GPO. Comparison of the growth rate of an industry's real GPO with that of real GDP indicates whether an industry is growing above or below the pace of U.S. economic growth. An industry's contribution to real GDP growth indicates the extent to which the industry is affecting the growth of real GDP. Changes in an industry's share of current-dollar GDP indicate whether the industry's use of the economy's resources is increasing or decreasing. Changes in the composition of an industry's current-dollar GPO indicate whether the labor and capital shares for the industry are changing.

Real GPO growth rates

Over the period 1977–98, the gross product for all industry groups increased. The increases ranged from 5.5 percent for wholesale trade to 1.2 percent for government; real GDP increased at an average annual rate of 3.1 percent (table A, chart 1). Within the transportation and public utilities industry group, the communications industry grew 5.7 percent. In 1977–87, the growth rates ranged from 4.9 percent for wholesale trade to 1.1 percent for construction. In 1987–98, wholesale trade again grew the fastest at 5.9 percent.

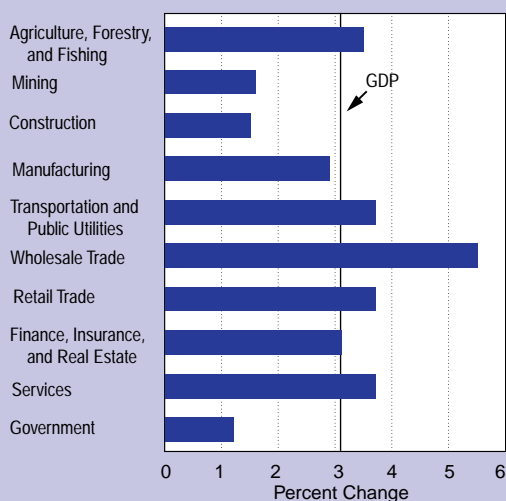
The revisions to the growth rates of real GPO for 1977–97 were small. The growth rate for private industries was revised up 0.3 percentage

Table A.—Real Gross Domestic Product by Industry Group: Average Annual Rates of Change, Selected Periods

	1977–98	1977–87	1987–98	1987–92	1992–98
Gross domestic product	3.1	3.1	3.0	2.4	3.6
Private industries	3.3	3.1	3.4	2.4	4.2
Agriculture, forestry, and fishing	3.5	4.7	2.4	3.4	1.5
Mining	1.6	.8	2.3	–6	4.7
Construction	1.5	1.1	1.9	–5	4.0
Manufacturing	2.9	2.9	3.0	.7	4.9
Durable goods	3.8	2.9	4.8	1.0	8.1
Nondurable goods	1.7	3.0	.6	.3	.8
Transportation and public utilities	3.7	3.2	4.2	3.8	4.6
Transportation	3.8	3.1	4.4	3.6	5.1
Communications	5.7	5.2	6.2	5.0	7.2
Electric, gas, and sanitary services	1.8	1.5	2.1	3.1	1.2
Wholesale trade	5.5	4.9	5.9	4.7	6.9
Retail trade	3.7	3.4	4.1	2.2	5.7
Finance, insurance, and real estate	3.1	3.2	2.9	2.1	3.6
Services	3.7	4.0	3.4	3.3	3.5
Government	1.2	1.4	1.0	1.6	.5

CHART 1

Real Gross Product by Industry Group: Average Annual Change for 1977–98



U.S. Department of Commerce, Bureau of Economic Analysis

point, the same as the 0.3-percentage point upward revision to real GDP growth (table B). By industry group, the real GPO growth rate for transportation and public utilities was revised up the most (0.6 percentage point), and that for agriculture, forestry, and fishing was revised down the most (0.2 percentage point).

In 1992–98, real GDP increased at an average annual rate of 3.6 percent; private industries increased 4.2 percent, and government increased 0.5 percent. Among the industry groups, manufacturing increased 4.9 percent, as durable-goods manufacturing increased 8.1 percent and non-durable-goods manufacturing increased 0.8 percent. Excluding manufacturing, the largest increases were in transportation and public utilities (7.2 percent in communications and 5.1 percent in transportation), and the smallest increase was in agriculture, forestry, and fishing (1.5 percent).

At the industry level of detail, the changes in real GPO varied widely in 1992–98. Real GPO increased at an average annual rate of 5 percent or more in 18 industries. The increases were especially large in electronic and other electric equipment (20.3 percent) and industrial machinery and equipment (13.1 percent) in durable-goods manufacturing, partly reflecting the rapid growth in high-tech products, and in nondepository institutions (20.0 percent) and security and commodity brokers (17.9 percent) in FIRE.⁴ Real GPO decreased in nine industries. The largest decreases

were in instruments and related products (4.1 percent) and “other transportation equipment” (1.7 percent) in durable-goods manufacturing.

Beginning with this GPO revision, estimates of gross output and intermediate inputs by industry for 1987–98 are available for all industries and industry groups (table C). These expanded estimates present a more comprehensive picture of an industry’s output. The growth rate of real gross output for an industry can be decomposed into the real growth rates of its primary factors of production (value-added inputs—labor and capital) and its secondary factors of production (intermediate inputs—including energy, raw materials, semifinished goods, and services—that are purchased from domestic industries and from foreign sources). For example, in 1987–98, real gross output for services grew at an average annual rate of 4.7 percent as a result of a 3.4-percent growth in real value-added from labor and capital inputs (real GPO) and a 6.8-percent growth in real intermediate inputs.⁵ This decomposition demonstrates that most of the growth in real gross output for services resulted from the growth in real intermediate inputs rather than from the growth in real value-added inputs.

Contributions to real GDP growth

The contribution of an industry to real GDP growth indicates the extent to which the industry’s growth affects the growth of real GDP. This contribution depends on both the industry’s growth rate

4. Chain-type quantity indexes of GPO are shown in table 5, and estimates of real (chained-dollar) GPO are shown in table 6. For information about the computation of the real GPO estimates, see the box “Computation of the Chain-Type Quantity Indexes for Double-Deflated Industries” in Robert E. Yuskavage, “Improved Estimates of Gross Product by Industry, 1959–94,” *Survey* 76 (August 1996): 142.

5. The contributions to growth of these components are a function of their relative size and of changes in their relative size over time as a result of factors such as increased outsourcing.

Table B.—Revisions to Average Annual Rates of Change of Real Gross Domestic Product by Industry Group, Selected Periods
[Percent]

	1977–97			1977–87			1987–97			1987–92			1992–97		
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
Gross domestic product	2.7	3.0	0.3	2.8	3.1	0.3	2.6	2.9	0.3	2.0	2.4	0.4	3.1	3.4	0.3
Private Industries	2.9	3.2	.3	2.9	3.1	.2	2.9	3.2	.3	2.3	2.4	.1	3.6	4.0	.4
Agriculture, forestry, and fishing	3.8	3.6	-.2	4.4	4.7	.3	3.2	2.6	-.6	3.7	3.4	-.3	2.6	1.8	-.8
Mining	1.4	1.4	0	.5	.8	.3	2.4	1.9	-.5	1.3	-.6	-1.9	3.6	4.5	.9
Construction	1.3	1.4	.1	1.1	1.1	0	1.4	1.7	.3	-.8	-.5	-.3	3.6	3.9	.3
Manufacturing	2.7	2.9	.2	2.7	2.9	.2	2.8	2.8	0	.4	.7	.3	5.2	5.0	-.2
Durable goods	3.3	3.5	.2	2.7	2.8	.1	4.0	4.2	.2	.3	1.0	.7	7.9	7.6	-.3
Nondurable goods	2.0	2.0	0	2.8	3.0	.2	1.2	1.0	-.2	.5	.3	-.2	1.9	1.7	-.2
Transportation and public utilities	3.1	3.7	.6	2.7	3.2	.5	3.6	4.3	.7	3.1	3.8	.7	4.0	4.7	.7
Transportation	2.8	3.9	1.1	2.3	3.1	.8	3.3	4.7	1.4	1.9	3.6	1.7	4.6	5.8	1.2
Communications	4.6	5.7	1.1	5.2	5.2	0	4.0	6.1	2.1	3.9	5.0	1.1	4.0	7.2	3.2
Electric, gas, and sanitary services	2.3	1.8	-.5	1.2	1.5	.3	3.3	2.1	-1.2	3.2	3.1	-.1	3.4	1.0	-2.4
Wholesale trade	5.0	5.1	.1	4.8	4.9	.1	5.1	5.2	.1	4.7	4.7	0	5.5	5.8	.3
Retail trade	3.4	3.5	.1	3.4	3.4	0	3.4	3.7	.3	1.3	2.2	.9	5.6	5.3	-.3
Finance, insurance, and real estate	2.8	2.9	.1	3.2	3.2	0	2.4	2.6	.2	2.5	2.1	-.4	2.3	3.1	.8
Services	3.4	3.6	.2	3.9	4.0	.1	3.0	3.3	.3	2.9	3.3	.4	3.1	3.3	.2
Government	1.0	1.2	.2	1.2	1.4	.2	.9	1.0	.1	1.5	1.6	.1	.2	.4	.2

and its relative size.⁶ In 1977–98, services and FIRE were the two largest contributors, accounting for

6. See the box “Using Chained-Dollar Estimates for Computing Contributions to Economic Growth: A Cautionary Note” in Lum and Moyer, “Gross Product by Industry,” 24–25.

Table C.—Average Annual Rates of Change in Chain-Type Quantity Indexes by Industry Group, Selected Periods
[Percent]

	1987–98	1987–92	1992–98
Gross domestic product	3.0	2.4	3.6
Private industries:			
Gross output	3.7	2.3	4.8
Intermediate inputs	3.9	2.4	5.2
Gross product ¹	3.4	2.4	4.2
Agriculture, forestry, and fishing:			
Gross output	2.5	2.6	2.3
Intermediate inputs	2.5	1.9	3.0
Gross product	2.4	3.4	1.5
Mining:			
Gross output	1.0	.8	1.1
Intermediate inputs	–9	2.7	–3.8
Gross product	2.3	–6	4.7
Construction:			
Gross output	1.2	–1.5	3.5
Intermediate inputs .....	.4	–2.6	3.0
Gross product	1.9	–5	4.0
Manufacturing:			
Gross output	3.4	1.4	5.1
Intermediate inputs	3.6	1.8	5.2
Gross product	3.0	.7	4.9
Durable goods:			
Gross output	4.9	1.4	7.8
Intermediate inputs	4.9	1.7	7.7
Gross product	4.8	1.0	8.1
Nondurable goods:			
Gross output	1.7	1.3	2.0
Intermediate inputs	2.2	1.8	2.6
Gross product .....	.6	.3	.8
Transportation and public utilities:			
Gross output	4.2	3.7	4.6
Intermediate inputs	4.2	3.6	4.6
Gross product	4.2	3.8	4.6
Wholesale trade:			
Gross output	4.9	3.5	6.1
Intermediate inputs	2.7	1.0	4.2
Gross product	5.9	4.7	6.9
Retail trade:			
Gross output	3.5	1.9	4.8
Intermediate inputs	2.3	1.5	3.0
Gross product	4.1	2.2	5.7
Finance, insurance, and real estate:			
Gross output	3.6	2.2	4.8
Intermediate inputs	4.9	2.5	7.0
Gross product	2.9	2.1	3.6
Services:			
Gross output	4.7	4.5	4.8
Intermediate inputs	6.8	6.7	7.0
Gross product	3.4	3.3	3.5
Government:			
Gross output	1.1	1.6	.7
Intermediate inputs	3.1	1.8	4.2
Gross product	1.0	1.6	.5
Addenda:			
Private goods-producing industries ² :			
Gross output	3.0	1.1	4.6
Intermediate inputs	3.1	1.4	4.6
Gross product	2.8	.7	4.5
Private services-producing industries ³ :			
Gross output	4.1	3.2	4.9
Intermediate inputs	4.8	3.7	5.8
Gross product	3.7	3.0	4.4

1. Includes the statistical discrepancy. The statistical discrepancy does not apply to gross output or to intermediate inputs. As a result, the gross output index may not be bounded by the indexes for intermediate inputs and gross product.

2. Consists of agriculture, forestry and fishing; mining; construction; and manufacturing.

3. Consists of transportation and public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services.

0.6 percentage point and 0.5 percentage point, respectively, of the 3.1-percent growth in real GDP (table D).

In 1987–98, services accounted for 0.6 percentage point and FIRE for 0.5 percentage point of the 3.0-percent growth in real GDP. In 1992–98, durable-goods manufacturing and services were the largest contributors; each accounted for 0.7 percentage point of the 3.6-percent growth in real GDP.

Shares of current-dollar GDP

An industry's share of current-dollar GDP is a good indicator of its relative size in the economy. (It is a better measure than an industry's share of real GDP, because shares of real GDP depend on the choice of the reference year.) Shares of current-dollar GDP can also be used to examine long-term trends in relative size, because these shares do not become distorted for years that are far from the reference year.

In 1992–98, the share of GDP accounted for by private services-producing industries increased from 61.2 percent to 64.7 percent, while the share accounted for by private goods-producing indus-

Table D.—Contributions to Percent Change in Real Gross Domestic Product by Industry Group, Selected Periods
[Average annual rate]

	1977–98	1977–87	1987–98	1987–92	1992–98
Percent change:					
Gross domestic product	3.1	3.1	3.0	2.4	3.6
Percentage points:					
Private industries	2.8	2.7	2.9	2.1	3.5
Agriculture, forestry, and fishing .....	.1	.1	0	.1	0
Mining	0	0	0	0	0
Construction .....	.1	.1	.1	0	.1
Manufacturing .....	.6	.6	.5	.1	.8
Durable goods .....	.4	.4	.5	.1	.7
Nondurable goods .....	.1	.3	0	0	.1
Transportation and public utilities .....	.3	.3	.4	.3	.4
Transportation .....	.1	.1	.1	.1	.2
Communications .....	.2	.1	.2	.1	.2
Electric, gas, and sanitary services .....	.1	0	.1	.1	0
Wholesale trade .....	.4	.3	.4	.3	.5
Retail trade .....	.3	.3	.4	.2	.5
Finance, insurance, and real estate .....	.5	.5	.5	.4	.6
Services .....	.6	.6	.6	.6	.7
Statistical discrepancy ¹	–.1	–.1	0	.1	–.1
Government .....	.2	.2	.1	.2	.1
Not allocated by industry²	0	.2	0	0	0

1. Equals gross domestic product measured as the sum of expenditures less gross domestic income.

2. Equals gross domestic product less the statistical discrepancy and the sum of gross product originating of the detailed industries.

NOTE.—For information on the calculation of the contributions to percent change, see footnote 6 in text.

tries decreased from 24.0 percent to 23.3 percent and the share accounted for by government decreased from 14.2 percent to 12.6 percent (table E).⁷ In the private services-producing industries, all industry groups increased their shares of GDP. The largest increases were in services, from 19.3 percent to 21.0 percent, and in FIRE, from 18.1 percent to 19.1 percent. The decrease in the share of private goods-producing industries was the net effect of a decrease in the share for manufacturing from 17.1 percent to 16.4 percent and of small decreases in the shares for mining and agriculture, forestry, and fishing that were partly offset by an increase in the share for construction from 3.7 percent to 4.3 percent. State and local government enterprises maintained its share, but the shares of all the other components of government declined.

In 1947–98, the share of private services-producing industries increased from 44.8 percent to 64.7 percent, while the share of private goods-producing industries fell from 41.9 percent to 23.3 percent (chart 2). The shares of all the private goods-producing industry groups except construction decreased. Among the private services-producing industry groups, services and FIRE more than accounted for the increase in share of GDP.

About two-thirds of the shift in GDP shares from private goods-producing industries to private services-producing industries over the 1947–98 period occurred in 1977–98. In 1947–77,

the share of private services-producing industries increased only 6.9 percentage points, from 44.8 percent to 51.7 percent, and the share of private goods-producing industries decreased 9.1 percentage points, from 41.9 percent to 32.8 percent. In 1977–98, the share of private services-producing industries increased more rapidly than in 1947–77—up 13.0 percentage points from 51.7 percent to 64.7 percent; this increase was mainly accounted for by services and FIRE. The share of private goods-producing industries decreased 9.5 percentage points from 32.8 percent to 23.3 percent.

The revisions to GPO had little effect on the industry-group shares of GDP. The largest downward revisions were to manufacturing, 0.2 percentage point for 1987 and 0.4 percentage point for 1997, and to FIRE, 0.2 percentage point for 1987 and 0.5 percentage point for 1997. These downward revisions were offset by upward revisions to the statistical discrepancy, 0.4 percentage point (from a negative value to a positive value) for 1987 and 0.6 percentage point (from a more negative to a less negative value) for 1997, and to transportation and public utilities, 0.3 percentage point for 1997.

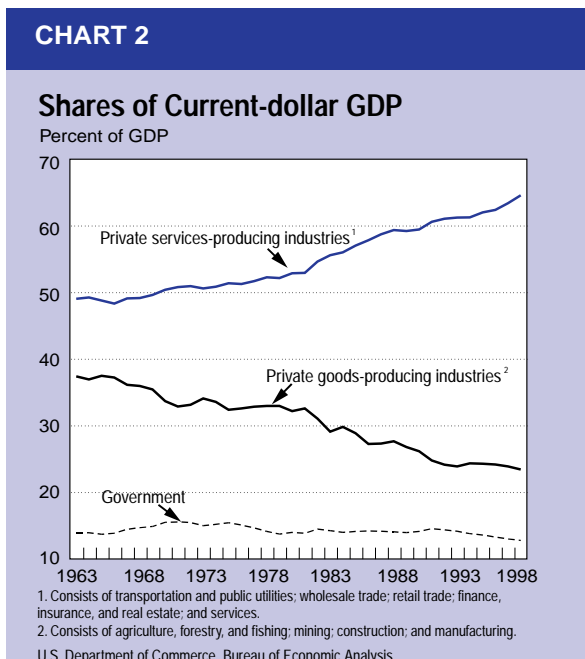
The revisions to the shares of GDP reflect the revisions to current-dollar GDP, which in turn, largely reflect the NIPA revisions to the components of gross domestic income (GDI) and to the

7. Private goods-producing industries consist of agriculture, forestry, and fishing; mining; construction; and manufacturing. Private services-producing industries consist of transportation and public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services.

Table E.—Gross Product by Industry Group in Current Dollars As a Percentage of Gross Domestic Product, Selected Years

	[Percent]							
	1947	1959	1972	1977	1982	1987	1992	1998
Gross domestic product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private industries	87.5	87.1	84.7	85.6	85.7	86.1	85.8	87.4
Agriculture, forestry, and fishing	8.5	4.0	3.0	2.7	2.4	1.9	1.8	1.4
Mining	2.8	2.5	1.6	2.7	4.6	1.9	1.4	1.2
Construction	3.7	4.6	5.0	4.7	4.0	4.6	3.7	4.3
Manufacturing	26.9	27.7	23.4	22.8	20.0	18.7	17.1	16.4
Durable goods	13.6	16.1	14.0	13.7	11.6	10.9	9.4	9.6
Nondurable goods	13.3	11.6	9.5	9.1	8.3	7.8	7.7	6.7
Transportation and public utilities	8.6	8.9	8.8	8.8	9.1	9.0	8.5	8.7
Transportation	5.8	4.5	3.9	3.8	3.4	3.3	3.1	3.2
Communications	1.3	2.0	2.4	2.5	2.7	2.6	2.6	3.0
Electric, gas, and sanitary services	1.6	2.5	2.5	2.6	3.0	3.0	2.9	2.5
Wholesale trade	6.7	7.0	7.0	7.0	6.9	6.5	6.6	7.0
Retail trade	11.6	9.8	9.6	9.4	8.8	9.2	8.7	8.9
Finance, insurance, and real estate	9.7	12.9	13.9	13.9	15.4	17.5	18.1	19.1
Services	8.3	9.5	11.7	12.6	14.6	16.7	19.3	21.0
Statistical discrepancy ¹ .....	.8	.2	.7	1.1	.1	.1	.7	-.5
Government	12.5	12.9	15.3	14.4	14.3	13.9	14.2	12.6
Addenda:								
Private goods-producing industries ²	41.9	38.8	33.0	32.8	31.0	27.2	24.0	23.3
Private services-producing industries ³	44.8	48.2	51.0	51.7	54.7	58.8	61.2	64.7

1. Equals gross domestic product measured as the sum of expenditures less gross domestic income.
 2. Consists of agriculture, forestry, and fishing; mining; construction; and manufacturing.
 3. Consists of transportation and public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services.



industry distributions of these components. GDP was revised up for all years: The revisions were generally small before 1987, but starting with 1987, the revisions to current-dollar GDP increased substantially—from \$50.2 billion (1.1 percent) for 1987 to \$74.5 billion (1.2 percent) for 1992 and to \$189.9 billion (2.3 percent) for 1997 (table F).

For all years, a major contributor to the upward revision to current-dollar GDP was the NIPA definitional change that recognized software as investment. The new treatment of software mainly affected the share of business services, which was revised up 0.3 percentage point for 1997, from 4.5 percent to 4.8 percent.

Composition of GPO

The changes over time in an industry's share of labor and capital reflect differences in the growth rates of the components of current-dollar GPO.⁸ For the total economy, the share of GDP that was accounted for by labor decreased from 58.1 per-

cent in 1987 to 57.7 percent in 1992 and to 57.3 percent in 1998, while the share of capital dropped from 34.0 percent to 33.5 percent and then rose to 35.5 percent (table 4). The share of indirect business tax and nontax liability increased from 7.8 percent to 8.1 percent and then dropped to 7.7 percent.⁹

Although the shares of labor and capital for the total economy did not change greatly in 1987–98, the shifts were substantial for manufacturing. The labor share of GPO for manufacturing decreased from 68.6 percent in 1987 to 63.9 percent in 1998, despite a decrease of less than 1.0 percent in full-time equivalent employment, while the capital share increased from 27.9 percent to 32.4 percent.¹⁰ The decrease in labor share and the increase in capital share can be largely attributed to durable-goods manufacturing, which accounts for nearly three-fifths of manufacturing; the labor share decreased 6.2 percentage points, and the capital share increased 5.9 percentage points. Most of this shift occurred in 1992–98.

The shifts in the labor and capital shares in mining, in agriculture, forestry, and fishing, and in wholesale trade were also large. The biggest shift was in agriculture, forestry, and fishing, where the labor share increased from 27.4 percent to 37.0

8. The labor share of production is approximated using compensation of employees—which consists of wage and salary accruals, employer contributions for social insurance, and other labor income. The capital share of production is approximated using property-type income—which consists of corporate profits and proprietors' income with inventory valuation adjustment, rental income of persons, net interest, private capital consumption allowances (CCAs), business transfer payments, the current surplus of government enterprises less subsidies and government consumption of fixed capital. Proprietors' income is included in property-type income; however, an unknown portion of proprietors' income represents a labor share of production. Indirect business tax and nontax liability (primarily sales, property, and excise taxes) is not included in property-type income, because it is the part of the pretax return to capital that accrues to government rather than to business. Private CCAs are used to calculate GPO because detailed industry estimates of private consumption of fixed capital are not available. The GPO by industry estimates are not affected by this difference in the valuation of depreciation because the estimates of private CCAs are deducted in computing corporate profits before tax and proprietors' income and are derived from the same source data.

9. The shares do not add to 100.0, because of the statistical discrepancy, which was 0.1 percent in 1987, 0.7 percent in 1992, and -0.5 percent in 1998.

10. For some analytical purposes, such as multifactor productivity analysis, the labor and capital shares of gross output are more appropriate than the labor and capital shares of GPO. For most industries, particularly for manufacturing, the labor and capital shares of GPO are larger than the labor and capital shares of gross output, because gross output also includes intermediate inputs. For example, labor's share of manufacturing gross output was 22.9 percent in 1998, whereas labor's share of manufacturing GPO was 63.9 percent.

Table F.—Revisions to Gross Domestic Product by Industry Group in Current Dollars, Selected Years

(Billions of dollars)

	1987			1992			1997			1987			1992			1997		
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
Gross domestic product	507.2	507.4	0.2	833.6	834.1	0.5	2,026.9	2,031.4	4.5	4,692.3	4,742.5	50.2	6,244.4	6,318.9	74.5	8,110.9	8,300.8	189.9
Private Industries	442.4	442.1	-3	715.7	715.5	-2	1,733.3	1,738.3	5.0	4,039.1	4,081.4	42.3	5,370.8	5,424.5	53.7	7,083.3	7,241.4	158.1
Agriculture, forestry, and fishing	20.3	20.3	0	24.9	24.9	0	54.1	54.3	.2	88.5	88.9	.4	112.4	111.7	-7	131.7	129.7	-2.0
Mining	12.5	12.6	.1	15.2	15.3	.1	54.1	54.0	-.1	88.3	92.2	3.9	92.2	87.6	-4.6	120.5	121.0	.5
Construction	23.7	23.6	-.1	39.5	39.4	-.1	93.8	94.8	1.0	217.0	219.3	2.3	229.7	234.4	4.7	328.8	343.1	14.3
Manufacturing	140.3	140.3	0	220.8	221.3	.5	462.6	462.8	.2	889.2	888.6	-.6	1,063.6	1,082.0	18.4	1,378.9	1,377.2	-1.7
Durable goods	81.7	81.7	0	134.1	134.4	.3	277.6	278.1	.5	513.3	516.8	3.5	573.4	594.0	20.6	784.0	798.7	14.7
Nondurable goods	58.6	58.6	0	86.7	86.9	.2	185.0	184.7	-.3	375.9	371.8	-4.1	490.3	488.0	-2.3	594.9	578.5	-16.4
Transportation and public utilities	44.9	45.3	.4	70.4	70.9	.5	179.1	179.4	.3	420.5	426.2	5.7	528.7	538.5	9.8	676.3	713.2	36.9
Transportation	22.7	22.7	0	32.7	32.8	.1	76.2	76.2	0	157.9	158.8	.9	192.8	193.4	.6	255.5	262.8	7.3
Communications	10.1	10.1	0	18.3	18.3	0	50.0	50.0	0	124.9	125.5	.6	161.1	163.9	2.8	211.6	243.1	31.5
Electric, gas, and sanitary services	12.2	12.5	.3	19.4	19.8	.4	52.9	53.2	.3	137.7	141.9	4.2	174.7	181.2	6.5	209.2	207.2	-2.0
Wholesale trade	36.0	35.7	-.3	57.7	57.5	-.2	142.2	142.2	0	300.8	308.9	8.1	406.4	414.6	8.2	562.8	572.3	9.5
Retail trade	49.1	49.5	.4	78.2	78.7	.5	190.2	190.9	.7	435.8	434.5	-1.3	544.3	551.7	7.4	712.9	734.1	21.2
Finance, insurance, and real estate	68.6	65.5	-3.1	117.0	111.6	-5.4	283.4	282.2	-1.2	829.7	829.7	0	1,147.9	1,140.9	-7.0	1,570.3	1,561.6	-8.7
Services	48.4	48.4	0	90.8	91.0	.2	255.5	256.2	.7	784.6	789.9	5.3	1,200.8	1,219.4	18.6	1,656.8	1,692.5	35.7
Statistical discrepancy ¹	-1.6	.8	2.4	1.3	4.8	3.5	18.2	21.6	3.4	-15.4	3.3	18.7	44.8	43.7	-1.1	-55.8	-3.2	52.6
Government	64.8	65.3	.5	117.9	118.6	.7	293.5	293.1	-.4	653.2	661.0	7.8	873.6	894.4	20.8	1,027.6	1,059.4	31.8

1. Equals gross domestic product measured as the sum of expenditures less gross domestic income.

percent, and the capital share decreased from 67.3 percent to 57.3 percent. In mining, the labor share decreased from 36.9 percent to 34.3 percent, and the capital share increased from 50.0 percent to 54.5 percent. In wholesale trade, the labor share decreased from 57.7 percent to 54.6 percent, and the capital share increased from 19.4 percent to 24.7 percent.

GPO Prices and Unit Costs

This section presents the estimates of GPO prices and unit costs by industry. First, it presents the GPO price indexes, including a discussion of contributions to GDP price change and a discussion of the relationship among GPO, gross output, and intermediate inputs price indexes. Second, it defines and presents the estimates of unit costs by industry and discusses their relationship to the GPO prices.

GPO prices

The GPO price index for an industry represents the price of its primary factors of production. For all industries and industry groups, the GPO price indexes are computed using a Fisher chain-type price-index-number formula. Because the GPO price indexes are computed using a Fisher formula, an industry's price index can be used in combination with its quantity index to separate changes in current-dollar GPO into price changes and quantity changes. For example, the 1987–98 average annual growth of 4.4 percent in current-dollar manufacturing GPO can be viewed as the product of a 1.4-percent growth in the manufacturing GPO price index (table G) and a 3.0-percent growth in the manufacturing GPO quantity index (table C)—that is, $1.044=1.014 \times 1.030$.

In 1987–98, the average annual change in the price of GPO for private services-producing industries (2.8 percent) was greater than, and the change in the price of GPO for private goods-producing industries (1.5 percent) was less than, the change in the GDP price index (2.6 percent). The slower growth in the index for private goods-producing industries partly reflected the rapidly declining prices of high-tech goods—including computers, digital telephone-switching equipment, and semiconductors.

In 1992–98, the GPO price index for private industries increased 1.7 percent, slightly less than the 1.9-percent increase in the GDP price index. The slower growth in the prices for private industries is partly attributable to a decline in manufacturing prices, as a decrease in durable-goods prices more than offset an increase in nondurable-goods prices. In addition, the price indexes for three

other private industry groups that are involved in the distribution of goods to consumers either increased less than the GDP price index or decreased: Transportation and public utilities (1.3

Table G.—Average Annual Rates of Change in Chain-Type Price Indexes by Industry Group, Selected Periods

	[Percent]		
	1987–98	1987–92	1992–98
Gross domestic product	2.6	3.4	1.9
Private industries:			
Gross output	2.1	2.9	1.5
Intermediate inputs	1.8	2.5	1.2
Gross product ¹	2.4	3.3	1.7
Agriculture, forestry, and fishing:			
Gross output	1.5	2.1	.9
Intermediate inputs	2.1	3.0	1.4
Gross product .....	.8	1.2	.4
Mining:			
Gross output	–1	.5	–5
Intermediate inputs	1.3	1.7	.9
Gross product	–1.0	–4	–1.5
Construction:			
Gross output	2.8	2.4	3.2
Intermediate inputs	2.6	3.0	2.2
Gross product	3.0	1.8	3.9
Manufacturing:			
Gross output	1.1	2.4	.1
Intermediate inputs	1.0	1.9	.2
Gross product	1.4	3.3	–1
Durable goods:			
Gross output .....	.3	1.8	–9
Intermediate inputs .....	.6	1.8	–3
Gross product	–2	1.8	–1.9
Nondurable goods:			
Gross output	2.1	3.1	1.2
Intermediate inputs	1.3	2.1	.7
Gross product	3.7	5.3	2.4
Transportation and public utilities:			
Gross output	1.2	1.4	1.1
Intermediate inputs	1.4	2.1	.8
Gross product	1.1	.9	1.3
Wholesale trade:			
Gross output .....	.9	1.7	.2
Intermediate inputs	1.6	2.6	.9
Gross product .....	.5	1.3	–1
Retail trade:			
Gross output	1.7	2.7	.9
Intermediate inputs	2.4	2.7	2.1
Gross product	1.3	2.7	.2
Finance, insurance, and real estate:			
Gross output	3.5	4.1	3.0
Intermediate inputs	3.4	3.5	3.4
Gross product	3.6	4.4	2.9
Services:			
Gross output	3.6	4.6	2.7
Intermediate inputs	2.1	2.9	1.5
Gross product	4.4	5.6	3.5
Government:			
Gross output	3.6	4.4	2.9
Intermediate inputs	1.9	2.3	1.6
Gross product	3.7	4.6	3.0
Addenda:			
Private goods-producing industries²:			
Gross output	1.3	2.3	.5
Intermediate inputs	1.2	2.1	.4
Gross product	1.5	2.6	.5
Private services-producing industries³:			
Gross output	2.6	3.4	2.1
Intermediate inputs	2.3	2.9	1.9
Gross product	2.8	3.6	2.1

1. Includes the statistical discrepancy. The statistical discrepancy does not apply to gross output or to intermediate inputs. As a result, the gross output index may not be bounded by the indexes for intermediate inputs and gross product.

2. Consists of agriculture, forestry and fishing; mining; construction; and manufacturing.

3. Consists of transportation and public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services.

percent), wholesale trade (-0.1 percent), and retail trade (0.2 percent). FIRE (2.9 percent) and services (3.5 percent) were among the industry groups for which the GPO price index increased more than the GDP price index.

Contributions to change.—GPO prices can be used to assess an industry's contribution to the change in GDP prices. This contribution depends on the industry's size relative to GDP and on the growth rate of its GPO price index.¹¹ In 1987–98, the largest contributors to the change in the GDP price index (2.6 percent) were services (0.8 percentage point) and FIRE (0.6 percentage point), both of which were large and rapidly growing industry groups (table H). Manufacturing contributed 0.3 percentage point, all of which was accounted for by nondurable-goods manufacturing.

Gross output prices and intermediate inputs prices.—Because price indexes for gross output and intermediate inputs are now available for all industries and industry groups for 1987–98, the relationships among percent changes in the chain-type price indexes for GPO, gross output, and intermediate inputs can be analyzed in a similar manner as the relationships for the chain-type quantity indexes. For example, in 1987–98, the gross output price index for wholesale trade grew at an average annual rate of 0.9 percent as a result of a 0.5-percent growth rate in the price index for capital and labor inputs (GPO) and a 1.6-percent growth rate in the price index for intermediate inputs.¹²

Unit costs

The GPO chain-type price index for an industry represents the price of its primary factors of production. Therefore, an industry's GPO price index can be used in combination with its current-dollar GPO components to assess each component's contribution to total industry labor and capital costs.¹³

The GPO measures of unit costs are computed by dividing current-dollar GPO and its components by real (chained-dollar) GPO.¹⁴ The resulting quotients are the GPO chain-type price index and the part of the price index that is associated

with each component.¹⁵ GPO unit-cost measures by private industry group are presented in table 14.¹⁶ If the percent change in the unit cost for a component is greater than the percent change in the GPO price index, the relative importance of that component in the industry cost structure has increased.

The cost per unit of GPO for private industries increased 2.4 percent in 1987–98. Unit labor costs (compensation of employees per unit of GPO) increased 2.3 percent (table I). Unit costs for indirect business tax and nontax liability increased 2.1 percent, and unit costs for property-type income increased 2.7 percent. The larger increase in the unit costs for property-type income indicates that capital costs became a larger part of GPO unit costs during the period—that is, the return to capital per unit of gross product increased.

In 1987–98, unit labor costs declined in mining, durable-goods manufacturing, and wholesale

15. GPO unit-cost measures are not derived from separate price indexes for labor and capital; instead, these measures are derived by proportionally distributing an industry's GPO price index to the components of its current-dollar GPO.

16. These unit-cost measures differ from the unit-labor-cost and unit-nonlabor-cost series published by the Bureau of Labor Statistics (BLS). See Department of Labor, Bureau of Labor Statistics, *BLS Handbook of Methods*, Bulletin 2490 (Washington, DC: U.S. Government Printing Office, April 1997).

Table H.—Contributions to Percent Change in the Chain-Type Price Index for Real Gross Domestic Product by Industry Group, Selected Periods
[Average annual rate]

	1987–98	1987–92	1992–98
Percent change:			
Gross domestic product	2.6	3.4	1.9
Percentage points:			
Private industries	2.1	2.9	1.6
Agriculture, forestry, and fishing	0	0	0
Mining	0	0	0
Construction .....	.1	.1	.1
Manufacturing .....	.3	.6	0
Durable goods	0	.2	-.1
Nondurable goods .....	.3	.4	.2
Transportation and public utilities .....	.1	.1	.1
Transportation	0	0	0
Communications	0	0	0
Electric, gas, and sanitary services .....	.1	.1	.1
Wholesale trade	0	.1	0
Retail trade .....	.1	.2	.1
Finance, insurance, and real estate .....	.6	.8	.6
Services .....	.8	1.0	.7
Statistical discrepancy ¹	0	0	0
Government .....	.5	.6	.4
Not allocated by industry²	0	-.1	-.1

1. Equals gross domestic product measured as the sum of expenditures less gross domestic income.

2. Equals gross domestic product less the statistical discrepancy and the sum of gross product originating of the detailed industries.

NOTE.—For information on the calculation of the contributions to percent change, see footnote 11 in text.

11. For a description of the calculation of these contributions, see the reference in footnote 6. For price calculations, the procedure described in the reference was modified to replace the chain-type quantity index with the chain-type price index.

12. The contributions to growth of these components are a function of their relative size and of changes in their relative size over time as a result of factors such as increased outsourcing.

13. See the section "Composition of GPO."

14. Current-dollar cost per unit of real GPO equals the GPO price index divided by 100.

trade, and they increased in all the other private industry groups. In agriculture, forestry, and fishing, in FIRE, and in services, the increases in unit labor costs were larger than the increases in total unit costs.

In 1992–98, the larger declines or smaller increases in unit labor costs relative to total unit costs were in industry groups engaged in the production and distribution of goods to consumers. In transportation and public utilities, unit labor costs increased 0.5 percent, less than the 1.3-percent increase in total unit costs. In wholesale trade, unit labor costs declined 1.0 percent, while total unit costs declined only 0.1 percent. In retail trade,

unit labor costs declined 0.6 percent, while total unit costs increased 0.2 percent.

Changes in Methodology and Presentation

This section presents changes in methodology and presentation. First, it discusses changes to methodology resulting from changes in NIPA sources, GPO methodology, and GPO source data. Second, it discusses changes in the presentation of the GPO estimates.

NIPA sources

Most of the definitional and statistical changes that were incorporated in the recent comprehensive revision of the NIPAs had little or no effect on the GPO estimates. Two notable exceptions were the recognition of business purchases and government expenditures for software as investment and the redefinition of the value of imputed services of regulated investment companies.¹⁷

Beginning with estimates for 1959, the NIPA's now recognize business and government expenditures, including own-account production of software, as fixed investment. This change, which resulted in an upward revision to GDP, primarily affected property-type income. In the GPO estimates, the reclassification of software also resulted in a decrease in intermediate inputs, and the recognition of own-account software resulted in an increase in gross output. The industries that were most affected by the new treatment of software were wholesale trade, retail trade, FIRE (depository institutions, nondepository institutions, and insurance carriers), and services (business services, including computer and data processing services).

In addition, beginning with the NIPA estimates for 1959, imputed services of regulated investment companies (mutual funds) were redefined to equal operating expenses rather than net property income received. This redefinition affected both GDP and the net interest component of GDI, increasing both in some years and decreasing both in some years. This revision affected the GPO property-type income of several industries, primarily the regulated investment companies component of holding and other investment companies.

The GPO revision also incorporated statistical changes that were made in the comprehensive NIPA revision.¹⁸ Two changes—the incorporation

Table I.—Average Annual Rates of Change in Current-Dollar Cost per Unit of Real Gross Product Originating by Private Industry Group, Selected Periods

[Percent]

	1987–98	1987–92	1992–98
Total	2.4	3.3	1.7
Compensation of employees	2.3	3.3	1.5
Indirect business tax and nontax liability	2.1	4.3	.4
Property-type income	2.7	3.1	2.2
Agriculture, forestry and fishing .....	.8	1.2	.4
Compensation of employees	4.7	3.7	5.6
Indirect business tax and nontax liability	1.2	.5	1.8
Property-type income	-1.1	.3	-2.2
Mining	-1.0	-4	-1.5
Compensation of employees	-4	2.3	-2.7
Indirect business tax and nontax liability	-9	2.9	-3.9
Property-type income	-1.4	-2.9	0
Construction	3.0	1.8	3.9
Compensation of employees	3.0	2.3	3.6
Indirect business tax and nontax liability	4.7	6.1	3.6
Property-type income	2.8	.6	4.7
Manufacturing	1.4	3.3	-1
Compensation of employees .....	.7	2.8	-1.0
Indirect business tax and nontax liability	2.2	6.5	-1.1
Property-type income	2.8	4.0	1.8
Durable goods	-2	1.8	-1.9
Compensation of employees	-1.0	1.8	-3.3
Indirect business tax and nontax liability .....	.6	5.2	-3.1
Property-type income	1.8	1.5	2.1
Nondurable goods	3.7	5.3	2.4
Compensation of employees	3.2	4.4	2.2
Indirect business tax and nontax liability	4.6	7.4	2.4
Property-type income	4.3	6.4	2.6
Transportation and public utilities	1.1	.9	1.3
Compensation of employees .....	.6	.7	.5
Indirect business tax and nontax liability	1.4	3.1	-1
Property-type income	1.6	.7	2.3
Wholesale trade .....	.5	1.3	-1
Compensation of employees	-1	1.0	-1.0
Indirect business tax and nontax liability	0	2.3	-1.8
Property-type income	2.7	1.2	3.9
Retail trade	1.3	2.7	.2
Compensation of employees .....	.8	2.6	-6
Indirect business tax and nontax liability	1.8	3.3	.6
Property-type income	2.3	2.4	2.3
Finance, insurance and real estate	3.6	4.4	2.9
Compensation of employees	3.8	3.9	3.8
Indirect business tax and nontax liability	2.1	4.7	0
Property-type income	3.7	4.5	3.1
Services	4.4	5.6	3.5
Compensation of employees	4.8	5.8	3.9
Indirect business tax and nontax liability	5.2	6.1	4.5
Property-type income	3.5	4.9	2.3

NOTE.—Current-dollar cost per unit of real gross product originating equals the GPO price index divided by 100.

17. Brent R. Moulton, Robert P. Parker, and Eugene P. Seskin, "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," *Survey* 79 (August 1999): 7–20.

18. Brent R. Moulton and Eugene P. Seskin, "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Statistical Changes," *Survey* 79 (October 1999): 6–17.

of improved estimates of the real value of unpriced banking services and the incorporation of geometric-mean-type consumer price indexes—affected real GPO through the prices of both gross output and intermediate inputs. The NIPA price index for banking services was used to develop the gross output estimates for depository institutions and the intermediate inputs price indexes for banking services. The geometric-mean-type consumer price indexes were used in the computation of the estimates of real gross output for many of the private services-producing industries, particularly for retail trade.

The GPO components that were most affected by the comprehensive NIPA revision were property-type income and the statistical discrepancy, which is included in the aggregate for private industries. Revisions to compensation of employees and to indirect business taxes and nontax liability were generally small for all industry groups. For 1987, the revisions to the current-dollar GPO estimates were largely to transportation and public utilities, wholesale trade, and the statistical discrepancy (table F). For 1992, they were largely to manufacturing and to services, and in 1997, they were largely to transportation and public utilities, to services, and to the statistical discrepancy.

GPO methodology

Extension of the double-deflation method.—In the previously published GPO estimates, the double-deflation method was used to compute real GPO by industry for 51 of the 63 industries for which it is the preferred method.¹⁹ In the double-deflation method, estimates of gross output and intermediate inputs are used in the calculation of real GPO. Generally, double deflation is the conceptually preferred method because it requires fewer assumptions about the relationships among gross output and intermediate inputs.

In this GPO revision, the double-deflation method has been extended to the remaining 12 industries, starting with the estimates for 1987.²⁰ The methodology used to compute the gross output estimates is generally the same as that used for the previously published estimates. In 1987–98, real gross output for the 12 industries increased at an average annual rate of 5.3 percent, compared with the 3.4-percent increase for “all industries” (table

10), and real GPO for the 12 industries increased 4.4 percent.

New gross output estimates.—The extension of the double-deflation method required the development of new gross output estimates for 12 industries. Several aspects of the methodology deserve special attention.

- For depository institutions, the improved price index for imputed service charges that was incorporated into the comprehensive NIPA revision was used as the price index for the unpriced services component of gross output.
- For nondepository institutions, the operating lease receipts of establishments primarily engaged in motor vehicle finance leasing are included in gross output for this industry for consistency with the estimates of current-dollar GPO.
- For other real estate, the rental value of buildings and equipment owned by non-profit institutions serving persons and gross royalties received are included in gross output for this industry for consistency with the estimates of current-dollar GPO.
- For holding and other investment offices, current-dollar gross output is measured as the sum of current-dollar GPO and current-dollar intermediate inputs.²¹ The price index for gross output incorporates wages

Data Availability

The summary estimates of gross product by industry that are presented in this article and more detailed estimates for 1947–98 are available on BEA's Web site; go to <www.bea.doc.gov> and click on “Industry and Wealth data.” These estimates are also available online to subscribers to STAT-USA's Economic Bulletin Board and Internet services (call 202-482-1986, or go to <www.stat-usa.gov>).

In addition, the estimates will be available on the following diskettes for \$20.00 each in late June.

Gross Product by Industry, 1947–98—product number NDN-0256

Gross Output by Detailed Industry, 1977–98—product number NDN-0257

Manufacturing Industry Shipments, 1977–98—product ID number NDN-0258

Manufacturing Product Shipments, 1977–96—product ID number NDN-0259

To order, call the BEA Order Desk at 1-800-704-0415 (outside the United States, call 202-606-9666)

19. See footnote 2.

20. The 12 industries are water transportation, transportation services, depository institutions, nondepository institutions, other real estate, holding and other investment offices, business services, social services, membership organizations, other (professional) services, Federal Government enterprises, and State and local government enterprises.

and salaries per employee, the chain-type price index for capital consumption allowances, and the chain-type price index for intermediate inputs.

- For business services, the composite price index for computer programming, data processing, and related services incorporates the new BEA price indexes for prepackaged and custom software that were also included in the new treatment of software in the NIPAs.

Improved gross output estimates.—Several types of improvements were made to the previously published gross output estimates, generally beginning in 1987. For agricultural services, forestry, and fishing, for trucking and warehousing, and for telephone and telegraph, the use of additional component detail improved the gross output estimates. For electric, gas, and sanitary services, an improved indicator series and a price index from the Department of Energy were introduced to reflect changes in the structure of the gas utility industry. For security and commodity brokers, the improved NIPA adjustment for excluding interest from gains on trading accounts was introduced,

21. For this industry, the year-to-year changes in GPO largely reflect changes in the property-type income. In many years, these changes have been very large, making the estimation of real GPO extremely difficult. As a result, for the GPO estimates, an indirect method is used to estimate gross output in which current-dollar intermediate inputs are estimated by extrapolating the intermediate inputs for this industry from the 1992 benchmark I-O accounts by BEA wages and salaries for this industry. A preliminary study of the sources of these large changes indicates classification problems in the underlying source data.

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and for insurance carriers, corrections were made to the previous method for computing the current-dollar indicator series for the property and casualty insurance component.

Treatment of corporate net interest.—For the estimates of current-dollar GPO, NIPA income components often need to be converted from a company basis to an establishment basis. As part of this GPO revision, the estimates of corporate net interest, starting with 1987, were converted from a company basis to an establishment basis; previously, corporate profits before tax and corporate capital consumption allowances were converted from a company basis to an establishment basis, but the estimates of corporate net interest were not.²²

In general, this change did not significantly affect the current-dollar GPO for most industries. The industries that were affected the most were nondepository institutions, security and commodity brokers, insurance carriers, and holding and investment offices. Although the revisions to net interest were relatively large for these industries, the adjustments from a company basis to an establishment basis are consistent in sign and magnitude with the adjustments for corporate profits before tax in which interest received is recorded as a receipt.

Improved industry distributions of indirect business tax and nontax liability.—Starting with 1977, the industry distributions of selected components of indirect business tax and nontax liability were updated.²³ Industry distributions of State and local general sales and gross receipts taxes were updated to incorporate data from an expanded sample of States and the District of Columbia. The industry and State distributions of other selected State and local taxes were updated with Census of Governments data for States, supplemented as needed with other State data. Selected taxes and payments include severance taxes, alcohol excise taxes, occupation and business license fees, other selective taxes, documentary and stock transfer taxes, public utility excise taxes, and motor vehicle license fees. Benchmark distributions were developed for 1977, 1982, 1987, 1992, and 1997.

22. As a result of this change in methodology, separate estimates of corporate net interest and of noncorporate net interest are now available as detailed components of GPO.

23. Statistical revisions to control totals for selected components of indirect business taxes for State and local government that were introduced in the comprehensive revision of the NIPAs slightly affected the industry distribution of these taxes.

GPO source data

The GPO estimates also incorporated new source data. The 1992 benchmark I-O accounts provided updated benchmarks for deriving the gross output estimates. Industry compositions of intermediate inputs were incorporated from the 1992 benchmark I-O accounts and the 1996 annual I-O accounts. The 1992 Census Bureau employment matrix provided an updated relationship among companies and establishments that was used to convert profits before tax, corporate net interest, and corporate capital consumption allowances from a company basis to an establishment basis.

The extension of the double-deflation method required the use of additional source data. For example, for depository and nondepository institutions, data from the Federal regulatory agencies, federally sponsored credit agencies, and BLS were used to develop gross output estimates. For business services, social services, membership organizations, and other professional services, extensive use was made of data from the Census Bureau's services annual survey. The gross output estimates of Federal Government enterprises and State and local government enterprises incorporated data from the U.S. Postal Service and the Census Bureau.

In addition, estimates from the comprehensive NIPA revision, new and revised estimates from Census Bureau annual surveys, and newly available producer price indexes from BLS were incorporated into the GPO estimates. Data from the Census Bureau on manufacturers' shipments, inventories, and orders were used to prepare the estimates of industry shipments for 1997–98.

Changes in presentation

Two major changes in presentation were made for this GPO revision. First, the reference year for chain-type measures was updated from 1992 to 1996; this change did not directly affect the percent changes in the price or quantity indexes or in chained dollars, because these changes are measured with chain-type indexes. Second, the presentation of the estimates of gross output and intermediate inputs was changed to reflect the extension of the double-deflation method to all industries.

Methodology

This section discusses the methodology, including the source data and estimating procedures, that is used to prepare the estimates of current-dollar and

real GPO. Previously published tables that summarize the methodology have been updated to incorporate the major changes introduced in this GPO revision.

Current-dollar GPO estimates

The current-dollar GPO estimates are prepared as the sum of the distributions by industry of the components of GDI (see the box "[Gross Product Originating: Definition and Relationship to Gross Domestic Product](#)").²⁴ This section describes the methodology for distributing the current-dollar estimates of these components.

For most components of GDI, the estimates are based on source data that provide industry distributions on either a company basis or an establishment basis. Only the estimates with distributions based on establishment data can be used directly to calculate industry GPO. The industry distributions of the components that are estimated from Internal Revenue Service (IRS) tabulations of business tax returns, which are on a company basis, must generally be converted to an establishment basis; this conversion is particularly necessary for companies whose establishments are classified in several industries. For the components for which the source data do not provide industry distributions, BEA has developed establishment-based industry distributions from related sources (table J).

To convert company-based data to an establishment basis, Census Bureau matrixes of the employment of establishments of corporations are used. These matrixes present employment of establishments cross-classified by the company-industry classifications assigned by the IRS in preparing tabulations of corporate tax returns and by the establishment-industry classifications assigned by the Census Bureau in the economic censuses. These matrixes are used to adjust the data on corporate profits before tax, corporate net interest, and corporate capital consumption allowances from a company basis to an establishment basis. For integrated petroleum companies, the results of applying these matrixes are supplemented by tabulations of net income and depreciation of energy companies on an establishment basis from the Department of Energy financial reporting system. These matrixes are also adjusted to reflect

24. Private capital consumption allowances (CCAs) are used to calculate GPO because detailed industry estimates of private consumption of fixed capital are not available. The GPO by industry estimates are not affected by this difference in the valuation of depreciation because the estimates of private CCAs are deducted in computing corporate profits before tax and proprietors' income and are derived from the same source data.

publicly available information about large mergers, acquisitions, or changes in company diversification that have occurred since 1992, the year covered by the latest matrix.

Real GPO estimates

For this GPO revision, the 1987–98 GPO chain-type quantity indexes for all industries and industry groups except private households and general government are calculated using the double-deflation method.²⁵ The GPO chain-type quantity indexes for 1977–87 are calculated using one of three alternative methods—double deflation, extrapolation, or direct deflation—depending on the availability and reliability of source data.²⁶ In the double-deflation method, separate estimates of gross output and intermediate inputs

are combined in a Fisher chain-type quantity-index-number formula to generate chain-type quantity indexes of GPO.²⁷ The double-deflation method is the preferred method for computing GPO chain-type quantity indexes because it requires fewer assumptions about the relationships among gross output and intermediate inputs. The real, or chained (1996) dollar, GPO estimates for each industry and industry group are derived as the product of the GPO chain-type quantity index (divided by 100) and the corresponding 1996 current-dollar GPO value.

Table K provides a summary description of the principal source data used to prepare the detailed estimates of current-dollar gross output and

25. See footnote 2.

26. For a description of these alternative methods, see Yuskavage, "Improved Estimates," 143–149.
27. See footnote 4.

Table J.—Major Sources for Current-Dollar Gross Product Originating by Industry

Component	Major source data	Industrial distribution	
		Distribution available in source data	Data or assumption used if distribution by establishment is not available in source data
Compensation of employees:			
Wages and salaries	BLS tabulations of wages and salaries of employees covered by State unemployment insurance and Office of Personnel Management data on wages and salaries of Federal Government employees.	Establishment.	
Employer contributions for social insurance	Federal budget data	None	Social Security Administration and BLS tabulations.
Other labor income	Department of Labor tabulations of pension plans, HCFA and BLS data on health insurance, trade association data for other types.	None, except pensions	BLS employer cost for employee compensation.
Proprietors' income with inventory valuation adjustment:			
Farm	Department of Agriculture farm statistics	Establishment.	
Nonfarm:			
Proprietors' income	IRS tabulations of business tax returns	Company	Assumed to be equivalent to an establishment distribution.
Inventory valuation adjustment	BLS prices and IRS inventory data	Establishment.	
Rental income of persons	Census Bureau American Housing Survey, BLS Consumer Expenditures Survey, and IRS tabulations of business and individual tax returns.	Establishment.	
Corporate profits with inventory valuation adjustment:			
Corporate profits before tax	IRS tabulations of business tax returns	Company	Census Bureau company-establishment employment matrix and Department of Energy establishment data for energy companies.
Inventory valuation adjustment	BLS prices and IRS inventory data	Establishment.	
Net interest:			
Corporate	IRS tabulations of business tax returns	Company	Same as corporate profits before tax starting in 1987; previously none.
Noncorporate	IRS tabulations of business tax returns	Company	Assumed to be equivalent to an establishment distribution.
Business transfer payments	IRS tabulations of business tax returns	Company	Industry-specific payments are assigned to those industries; other are based on IRS company industry distribution.
Indirect business tax and nontax liability	Federal budget data and Census Bureau data on State and local governments.	None	Industry-specific payments are assigned to those industries; property taxes are based on BEA capital stock distribution.
Subsidies less current surplus of government enterprises.	Federal budget data and Census Bureau data on State and local governments.	Establishment.	
Capital consumption allowances:			
Corporate	IRS tabulations of business tax returns	Company	Same as corporate profits before tax.
Noncorporate	IRS tabulations of business tax returns	Company	Assumed to be equivalent to an establishment distribution.
Government consumption of fixed capital	BEA capital stock estimates	Type of agency.	


BEA Bureau of Economic Analysis
BLS Bureau of Labor Statistics

HCFA Health Care Financing Administration
IRS Internal Revenue Service

gross-output prices for 1987–98. For 1977–87, this table is applicable only for those industries for which the double-deflation method was used to compute the GPO chain-type quantity indexes.

Except for farms and nonfarm-housing services, current-dollar intermediate inputs are derived by subtracting current-dollar GPO from current-dollar gross output.²⁸ Detailed current-dollar estimates of intermediate inputs are derived in four steps: (1) The input compositions for 1977, 1982, 1987, 1992, and 1996 are derived from BEA's benchmark and annual I-O accounts; (2) the input compositions for 1978–81, 1983–86, 1988–91, and 1993–95 are estimated by interpolating the detailed compositions from 1977, 1982, 1987, 1992, and 1996; (3) the imported and domestically pro-

duced shares of each detailed input for 1977–96 are estimated; and (4) the input compositions for 1997–98 are estimated, primarily based on the 1996 composition.

Detailed prices are prepared separately for domestically produced intermediate inputs and for imported intermediate inputs. Prices for domestically produced intermediate inputs are largely based on the detailed prices associated with the gross output estimates, as shown in table K. For example, the same quality-adjusted semiconductor price index is used for selected semiconductor products in the deflation of both gross output and domestically produced intermediate inputs. The prices of imported intermediate inputs are developed from a variety of sources, primarily from BLS import price series, and are the same as those used for the NIPA estimates of imports. 

Tables 1 through 14 follow.

28. For farms and nonfarm housing services, complete and consistent gross output and intermediate inputs series are available from the NIPAs.

Table K.—Principal Source Data for Estimating Gross Output

Industry ¹	Current dollars	Quantity index
	Extrapolator or interpolator of benchmark values ²	Detailed price indexes used to calculate quantity index
Agriculture, forestry, and fishing:		
Farms	Cash receipts from marketings and inventory change from USDA.	Prices received by farmers from USDA.
Agricultural services	For veterinary services, PCE; for landscape and horticultural services and all other agricultural services, wages and salaries from BLS. For prior years, receipts from IRS tabulations of business tax returns.	Composite price index of wages and salaries per employee from BLS, PCE, farm prices, and PPI's.
Forestry	Shipments of logging camps and contractors from Census Bureau quinquennial census and annual survey.	PPI's.
Fishing	Value of fish landed from NOAA	IPD for fish landed from NOAA.
Mining:		
Metal mining	Physical quantity produced times average price: For uranium, physical quantity and average price from DOE; for all others, quantities and prices from USGS.	IPD for metallic minerals from DOE and USGS.
Coal mining	Physical quantity produced times average price, both from DOE	IPD for coal from DOE.
Oil and gas extraction	Physical quantity produced times average price, both from DOE, except natural gas liquids (PPI).	IPD for crude petroleum and natural gas from DOE, except for natural gas liquids (PPI).
Oil and gas field services	Petroleum and natural gas well drilling and exploration; footage drilled and cost per foot from trade source.	IPD for footage drilled from trade source.
Nonmetallic minerals, except fuels	Physical quantity produced times average price, both from USGS	IPD for nonmetallic minerals from USGS.
Construction:		
For the Department of Defense	Expenditures from DOD	For most military construction, BEA indexes based on DOD prices; for other construction, cost indexes from trade sources and government agencies.
For State and local highways	Expenditures from Census Bureau annual survey of government spending.	For new construction, cost indexes from government agencies; for maintenance and repair, BEA composite index of input prices.
For private electric and gas utilities	Expenditures from Federal regulatory agencies and trade sources.	Cost indexes from trade sources and government agencies.
For farms, excluding residential	Expenditures from USDA	Cost index from trade source and price deflator for new single-family houses under construction from Census Bureau.
For other nonresidential:		
New construction	Value put in place from Census Bureau construction survey	Cost indexes from trade sources and government agencies and price indexes from new single-family houses under construction from Census Bureau.
Maintenance and repair	Value put in place from Census Bureau construction survey	BEA composite index of input prices.
For other residential:		
New construction	Value put in place from Census Bureau construction survey	Price index for new single-family houses under construction from Census Bureau.
Maintenance and repair	Value put in place from Census Bureau construction survey	BEA composite index of input prices.

Table K.—Principal Source Data for Estimating Gross Output—Continued

Industry ¹	Current dollars	Quantity index
	Extrapolator or interpolator of benchmark values ²	Detailed price indexes used to calculate quantity index
Manufacturing	Shipments and inventory change from Census Bureau annual survey.	PPI's, quality-adjusted price indexes for computers, semiconductors, and digital telephone switching equipment. BEA price indexes based on DOD prices paid for military equipment.
Transportation:		
Railroad transportation:		
Railroad freight transportation	Total operating revenue for class I railroads from trade source	PPI for railroads, line-haul operating starting in 1992. For prior years, IPD for freight ton-miles from trade source.
Railroad passenger transportation	Total operating revenue for AMTRAK	PPI for railroads, line-haul operating starting in 1992. For prior years, IPD for passenger-miles from trade source.
Local and interurban passenger transit:		
Taxicabs	PCE	PCE price index for taxi fares based on CPI.
Intercity buses	Operating revenues from trade source	IPD for passenger revenue miles from trade source.
School buses	Wages and salaries from BLS	Wages and salaries per employee from BLS.
Other local transit	Operating revenues of private local transit systems from trade source.	IPD based on revenues and passenger trips from trade source.
Trucking and warehousing:		
Trucking, and terminal facilities	Receipts from Census Bureau annual survey starting in 1984. For prior years, operating revenues for Class I motor carriers of property from ICC.	PPI for motor freight transportation and warehousing starting in 1993. For prior years, IPD for freight ton-miles from trade source.
Courier services, except by air	Receipts from Census Bureau annual survey starting in 1984. For prior years, operating revenues for Class I motor carriers of property from ICC.	PPI for courier services, except by air starting in 1993. For prior years, IPD for freight ton-miles from trade source.
Public warehousing and storage	Receipts from Census Bureau annual survey starting in 1984. For prior years, operating revenues for Class I motor carriers of property from ICC.	PPI for public warehousing and storage starting in 1993. For prior years, IPD for freight ton-miles from trade source.
Water transportation:		
Marine cargo handling	Wages and salaries from BLS	PPI for marine cargo handling starting in 1993. For prior years, wages and salaries per employee from BLS.
Marinas	PCE for commercial participant amusements	PCE price index for commercial participant amusements.
Other water transportation	Freight and passenger revenue data from trade source	PPI for water transportation starting in 1993. For prior years, BEA price index for freight payments to foreign carriers.
Transportation by air:		
Air passenger transportation	Total passenger-related revenues from DOT	IPD for total passenger-related revenues and passenger-miles from DOT.
Air freight, mail and express	Total freight, mail and express revenues from DOT	IPD for total freight-, mail-, and express-related revenues and ton-miles from DOT.
Other air transportation	Wages and salaries from BLS	Wages and salaries per employee from BLS.
Pipelines, except natural gas	Operating revenues from trade source	IPD for ton-miles from trade source.
Transportation services:		
Passenger transportation arrangement	Receipts from Census Bureau annual survey	PPI for travel agencies starting in 1990. For prior years, wages and salaries per employee from BLS.
Freight transportation arrangement	Wages and salaries from BLS	PPI for freight transportation arrangement starting in 1995. For prior years, wages and salaries per employee from BLS.
Other transportation services	Wages and salaries from BLS	Wages and salaries per employee from BLS.
Communications:		
Radio and television broadcasting	Receipts from Census Bureau annual survey starting in 1989. For prior years, advertising expenditures from trade source and PCE for cable television.	For advertising, cost indexes from trade source. For cable television, PPI starting in 1993. For prior years, PCE price index for cable television based on CPI.
Telephone and telegraph	Receipts from Census Bureau annual survey starting in 1989. For prior years, revenues from FCC.	For cellular telephone services starting in 1987, PCE price index; for other telephone services, PPI's.
Electric, gas, and sanitary services:		
Electric utilities	For private utilities, revenues from DOE/EIA. For rural cooperatives, revenues from USDA.	PPI for electricity, starting in 1991. For prior years, IPD for kilowatt hours from trade source.
Gas utilities	Quantity delivered times average price by class of service from DOE/EIA starting in 1987. For prior years, revenues of gas pipeline and utilities from trade source.	Composite price index for gas utilities by class of service from DOE/EIA, starting in 1987. For prior years, IPD for BTU's from trade source.
Sanitary services	Receipts from IRS tabulations of business tax returns	CPI for water and sewerage maintenance.
Wholesale trade:		
Merchant wholesalers	Ratio of gross margin to sales (margin rate) times sales: For 1977-82, margin rate from quinquennial census and sales from Census Bureau annual survey; for 1983 forward, both from annual survey.	Sales price index by kind of business computed from PPI's.
Manufacturers' sales branches and sales offices	For equipment rental, interpolation of quinquennial census receipts; for 1993 forward, judgmental trend. For other receipts, manufacturing shipments from Census Bureau annual survey.	For equipment rental, BEA capital stock price index. For other receipts, shipments deflated by PPI's.
Agents and brokers	Merchant wholesalers margin rate times sales: For 1977-82, margin rate from quinquennial census and sales from Census Bureau annual survey; for 1983 forward, both from annual survey.	Merchant wholesalers' price index.
Retail trade:		
Eating and drinking places	Sales from quinquennial census and Census Bureau annual survey.	CPI's.
Other	Ratio of gross margin to sales (margin rate) times sales: For 1977-82, margin rate from quinquennial census and sales from Census Bureau annual survey; for 1983 forward, both from annual survey.	Sales price index by kind-of-business computed from CPI's.
Finance, insurance, and real estate:		
Depository institutions	NIPA imputed service charges for depository institutions, and non-interest income of commercial banks and savings institutions.	NIPA price index for imputed interest paid by depository institutions and PCE price index for bank service charges.
Nondepository institutions	Fees and other income without interest and trading gains of federally sponsored credit institutions, owned and managed receivables of domestic finance companies, and PCE for motor vehicle leasing.	Wages and salaries per employee from BLS and PCE price index for motor vehicle leasing.

Table K.—Principal Source Data for Estimating Gross Output—Continued

Industry ¹	Current dollars	Quantity index
	Extrapolator or interpolator of benchmark values ²	Detailed price indexes used to calculate quantity index
Security and commodity brokers	Securities commissions, revenue from sale of investment company securities, profits on underwriting/selling/gains on trading accounts and other revenues excluding interest, and revenues earned by exchanges; receipt items from SEC and interest from SEC and BEA.	For securities commissions, IPD from number of public securities orders from SEC and trade sources; for mutual funds, IPD for securities commissions; for underwriting, IPD from new securities registrations from SEC and trade sources; for other revenue, composite of PCE price indexes for other brokerage services starting in 1987. For prior years, IPD for GDP.
Insurance carriers	Net premiums for health, auto, accident, property, and workers' compensation insurance from trade sources; PCE for expense of handling life insurance.	CPI for auto and property insurance and PCE price indexes for all other types of insurance.
Insurance agents, brokers, and service	Receipts from IRS tabulations of business tax returns	Insurance carrier deflators weighted by commissions from trade source.
Real estate:		
Nonfarm housing services	PCE for owner- and tenant-occupied nonfarm dwellings	PCE price index.
Other real estate	NIPA farm rental, NIPA rental value of buildings owned by non-profits, NIPA royalties received, IRS corporate business receipts, and Census annual survey data.	NIPA rental IPD's, rental rate index from trade source, CPI for household maintenance and repair, and PPI for property management starting in 1996.
Holding and other investment offices	Proxy gross output series computed as sum of GPO and intermediate inputs. Intermediate inputs extrapolated from I-O accounts by BEA wages and salaries.	Composite cost-based price index.
Services:		
Hotels and other lodging places	For tenant group room and board, PCE. For all other, receipts from Census Bureau quinquennial census and annual survey.	For hotels and motels starting in 1993, PPI. For prior years, room-rate index from trade source. For sporting and recreational camps, PCE price index; for rooming and boarding houses, composite of PCE price indexes.
Personal services	For shoe repair, PCE. For all other, receipts from Census Bureau quinquennial census and annual survey.	PCE price index based on CPI's.
Business services	Receipts from Census Bureau quinquennial census and annual survey.	For advertising, PPI's starting in 1995. For prior years, cost indexes from trade sources. For miscellaneous equipment rental and leasing, PPI's and BEA net capital stock price index for other equipment. For prepackaged software, BEA price index; for computer equipment rental, BEA capital stock price index; for custom programming, BEA custom software price index; for other computing services, wages and salaries per employee from BLS; for all other business services, PPI's, PCE price indexes, and wages and salaries per employee from BLS.
Automotive repair, services, and parking	Receipts from Census Bureau quinquennial census and annual survey.	For automotive rental and leasing without drivers, composite index of PCE price index and PPI's starting in 1992. For prior years, PCE price index for rental, leasing, and other services. For all other automotive repair and services, PCE price index based on CPI's.
Miscellaneous repair services	Receipts from Census Bureau quinquennial census and annual survey.	PCE price index based on CPI's.
Motion pictures	Receipts from Census Bureau quinquennial census and annual survey.	PCE price index based on CPI's.
Amusement and recreation services	Receipts from Census Bureau quinquennial census and annual survey.	PCE price index based on CPI's.
Health services:		
Hospitals	Receipts from trade sources	PPI starting in 1993. For prior years, HCFA index of input prices and CPI for hospital room.
Other health services	Receipts from Census Bureau quinquennial census and annual survey.	CPI's and HCFA index of input prices. PPI for physicians services beginning in 1994.
Legal services	Receipts from Census Bureau quinquennial census and annual survey.	PPI for legal services, starting in 1997. For prior years, CPI for legal services.
Educational services	PCE for private education	PCE price index.
Social services	Receipts and expenses from Census Bureau quinquennial census and annual survey.	Wages and salaries per employee from BLS and PCE price indexes.
Membership organizations	Expenses from Census Bureau quinquennial census and annual survey; PCE; and wage and salary data from BLS.	Wages and salaries per employee from BLS and PCE price indexes.
Other services	PCE for museums and libraries and other services; for all others, receipts from Census Bureau quinquennial census and annual survey.	PPI's for engineering, architectural, and surveying services, and for accounting, auditing, and bookkeeping services starting in 1997. PPI for advertising agencies used for management and public relations services starting in 1995. For prior years, wages and salaries per employee from BLS for each component. PCE price indexes for museums, art galleries, zoological gardens, research organizations (commercial and non-commercial), and services not elsewhere classified.
Government enterprises:		
Federal Government enterprises	For the U.S. Postal Service, receipts; for electric utilities, DOE; for other enterprises, wages and salaries from BEA.	For U.S. Postal Service and for Federal electric utilities, PPI; for other enterprises, BEA composite price index.
State and local government enterprises	For electric utilities, DOE; for other enterprises, revenue by type from BEA.	For electric utilities, PPI; for transit, composite price index based on PCE price indexes for private transit; for other enterprises, BEA composite price index.

1. Source data and estimating methods apply to both the 1972 SIC and 1987 SIC definition of the industries shown in the table. Industry titles are 1987 SIC titles.

2. Benchmark values are derived from the 1977, 1982, 1987, and 1992 input-output (I-O) accounts. Gross output estimates are prepared only for industries for which the double-deflation method is used for estimating real GPO.

BEA Bureau of Economic Analysis
 BLS Bureau of Labor Statistics
 CPI Consumer Price Index (BLS)
 DOC U.S. Department of Commerce
 DOD U.S. Department of Defense
 DOE U.S. Department of Energy
 DOT U.S. Department of Transportation
 EIA Energy Information Administration

FCC Federal Communications Commission
 HCFA Health Care Financing Administration
 ICC Interstate Commerce Commission
 IPD Implicit price deflator
 IRS Internal Revenue Service
 NIPA National Income and Product Accounts
 NOAA National Oceanic and Atmospheric Administration
 PCE Personal consumption expenditures (BEA)
 PPI Producer Price Index (BLS)
 SEC Securities and Exchange Commission
 USDA U.S. Department of Agriculture
 USGS U.S. Geological Survey (formerly Bureau of Mines)

Table 1.—Gross Domestic Product by Industry in Current Dollars, 1987–98

[Billions of dollars]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	4,742.5	5,108.3	5,489.1	5,803.2	5,986.2	6,318.9	6,642.3	7,054.3	7,400.5	7,813.2	8,300.8	8,759.9
2	Private industries	4,081.4	4,401.8	4,735.5	4,996.7	5,129.1	5,424.5	5,717.5	6,096.7	6,411.1	6,792.8	7,241.4	7,659.8
3	Agriculture, forestry, and fishing	88.9	89.1	102.0	108.3	102.9	111.7	108.3	118.5	109.8	130.4	129.7	125.2
4	Farms	65.1	63.8	76.2	79.6	73.2	80.5	73.6	83.6	73.2	88.0	88.0	80.2
5	Agricultural services, forestry, and fishing	23.8	25.3	25.8	28.7	29.7	31.2	34.8	34.9	36.7	38.3	41.6	45.0
6	Mining	92.2	99.2	97.1	111.9	96.7	87.6	88.4	90.2	95.7	113.0	121.0	105.9
7	Metal mining	3.7	5.0	5.2	5.2	5.6	5.6	4.9	5.6	6.5	5.8	5.8	5.0
8	Coal mining	13.0	12.6	12.0	11.8	11.4	12.0	10.5	11.3	10.7	11.2	11.1	11.6
9	Oil and gas extraction	67.4	73.6	72.1	87.1	72.2	62.3	65.7	64.5	69.3	86.1	92.8	77.0
10	Nonmetallic minerals, except fuels	8.1	8.0	7.8	7.8	7.5	7.7	7.3	8.9	9.1	9.9	11.4	12.3
11	Construction	219.3	237.2	245.8	248.7	232.7	234.4	248.9	275.3	290.3	316.4	343.1	373.2
12	Manufacturing	888.6	979.9	1,017.7	1,040.6	1,043.5	1,082.0	1,131.4	1,223.2	1,289.1	1,316.0	1,377.2	1,432.8
13	Durable goods	516.8	566.3	582.7	586.6	575.5	594.0	632.8	694.1	729.8	748.4	798.7	842.6
14	Lumber and wood products	32.1	33.0	33.8	32.2	30.3	32.3	35.7	39.8	42.3	39.9	41.9	43.9
15	Furniture and fixtures	14.6	15.1	15.8	15.6	15.2	16.6	18.1	18.9	19.5	20.7	22.8	25.2
16	Stone, clay, and glass products	23.3	23.8	25.2	25.3	23.8	26.3	26.4	30.4	32.4	33.2	38.0	42.1
17	Primary metal industries	34.5	43.1	45.3	43.2	39.9	39.6	43.0	47.6	53.0	50.8	51.8	54.8
18	Fabricated metal products	62.6	67.4	68.5	69.4	67.3	69.5	73.4	83.2	87.2	93.1	99.6	104.7
19	Industrial machinery and equipment	95.2	110.3	116.9	118.2	109.0	113.8	113.7	121.0	132.8	136.3	143.8	153.3
20	Electronic and other electric equipment	87.6	96.6	105.0	105.7	110.8	107.7	121.0	139.3	146.9	153.2	166.0	168.3
21	Motor vehicles and equipment	58.2	60.6	52.7	47.3	45.5	58.8	78.0	95.2	98.2	92.2	99.5	105.0
22	Other transportation equipment	55.5	53.8	56.9	60.5	62.4	58.1	54.2	49.6	47.7	51.4	55.6	59.7
23	Instruments and related products	37.3	44.6	43.6	49.3	51.5	51.9	48.4	46.8	47.2	53.7	54.1	59.0
24	Miscellaneous manufacturing industries	15.8	18.0	19.2	19.8	19.8	19.6	20.9	22.3	22.7	23.8	25.6	26.6
25	Nondurable goods	371.8	413.6	434.9	454.0	468.0	488.0	498.6	529.1	559.2	567.6	578.5	590.1
26	Food and kindred products	79.1	84.6	88.9	96.4	103.7	105.9	107.6	110.2	121.1	118.7	119.3	122.0
27	Tobacco products	10.4	11.1	11.3	11.9	12.7	13.8	12.3	13.2	15.1	14.8	16.1	17.9
28	Textile mill products	20.1	20.6	21.0	22.0	22.4	25.7	25.7	25.6	24.8	25.3	25.7	25.6
29	Apparel and other textile products	23.0	24.2	25.4	25.4	26.1	27.4	27.7	28.5	27.3	27.0	26.1	25.4
30	Paper and allied products	37.8	43.8	45.5	45.0	44.6	45.6	46.9	50.1	58.9	55.9	53.6	54.9
31	Printing and publishing	62.1	66.5	71.4	73.1	75.0	78.9	78.5	83.5	80.8	88.2	90.2	96.3
32	Chemicals and allied products	83.8	95.5	103.3	109.9	113.9	119.1	122.7	138.7	150.8	153.6	158.8	158.7
33	Petroleum and coal products	22.1	32.3	29.8	31.7	28.8	28.2	31.0	29.3	29.0	30.2	31.5	30.1
34	Rubber and miscellaneous plastics products	29.6	30.6	33.7	33.9	35.8	38.4	41.6	44.9	46.1	49.7	52.7	54.9
35	Leather and leather products	3.9	4.4	4.6	4.7	4.9	4.9	4.7	5.0	5.3	4.2	4.5	4.4
36	Transportation and public utilities	426.2	449.0	468.7	490.9	518.3	538.5	573.3	611.4	642.6	666.3	713.2	759.1
37	Transportation	158.8	169.2	172.2	177.4	186.1	193.4	206.0	223.2	233.4	243.4	262.8	283.9
38	Railroad transportation	21.9	23.1	19.9	19.8	22.0	21.6	22.0	23.3	23.6	23.4	23.2	24.2
39	Local and interurban passenger transit	8.6	8.9	9.3	9.1	10.2	10.9	11.3	11.6	12.4	13.4	14.8	16.0
40	Trucking and warehousing	64.1	64.5	67.4	69.4	70.9	74.5	79.2	86.4	89.0	92.1	99.5	106.5
41	Water transportation	8.4	9.1	9.6	10.0	11.1	10.7	10.7	11.5	11.6	12.2	13.3	13.9
42	Transportation by air	34.3	42.7	43.9	45.3	47.0	50.3	56.4	62.5	67.7	70.8	79.2	87.8
43	Pipelines, except natural gas	7.1	5.7	5.5	5.5	5.5	5.5	5.6	5.5	5.5	5.7	5.9	6.5
44	Transportation services	14.4	15.4	16.7	18.2	19.5	19.9	20.8	22.6	23.5	25.7	26.9	29.0
45	Communications	125.5	132.8	137.4	148.1	155.7	163.9	178.6	190.7	202.3	214.7	243.1	258.7
46	Telephone and telegraph	108.0	111.6	112.9	119.4	124.0	128.7	139.0	148.0	151.6	163.9	189.5	201.7
47	Radio and television	17.5	21.1	24.6	28.7	31.7	35.2	39.6	42.8	50.7	50.7	53.7	57.0
48	Electric, gas, and sanitary services	141.9	147.0	159.0	165.4	176.5	181.2	188.7	197.4	206.9	208.3	207.2	216.6
49	Wholesale trade	308.9	346.6	364.7	376.1	395.6	414.6	432.5	479.2	500.6	529.6	572.3	613.8
50	Retail trade	434.5	461.5	492.7	507.8	523.7	551.7	578.0	620.6	646.8	687.1	734.1	781.9
51	Finance, insurance, and real estate	829.7	893.7	954.5	1,010.3	1,072.2	1,140.9	1,205.3	1,254.8	1,347.2	1,436.8	1,561.6	1,674.2
52	Depository institutions	143.9	147.6	157.2	171.3	193.9	205.3	200.9	200.7	227.4	241.0	271.2	289.6
53	Nondepository institutions	17.9	20.1	23.7	23.3	23.2	27.2	32.5	29.4	34.1	39.2	51.6	78.5
54	Security and commodity brokers	41.3	42.2	45.3	42.3	40.5	54.5	67.6	77.8	77.7	108.0	117.3	117.1
55	Insurance carriers	43.6	56.9	60.5	64.6	83.3	82.1	99.8	104.3	120.2	123.4	141.4	143.1
56	Insurance agents, brokers, and service	30.4	33.8	34.4	37.7	38.0	39.4	41.8	45.3	47.2	48.9	51.3	53.7
57	Real estate	531.4	586.2	630.7	665.7	689.1	725.2	751.6	791.4	832.6	871.6	919.2	967.9
58	Nonfarm housing services	391.9	424.3	456.7	488.3	515.5	543.4	558.1	593.9	628.9	654.6	680.2	711.9
59	Other real estate	139.5	162.0	174.0	177.3	173.6	181.8	193.5	197.5	203.7	217.0	239.0	256.1
60	Holding and other investment offices	21.2	6.9	2.7	5.5	4.2	7.1	11.0	5.8	8.0	4.6	9.7	24.2
61	Services	789.9	887.9	976.0	1,071.5	1,123.8	1,219.4	1,287.7	1,365.0	1,462.4	1,564.2	1,692.5	1,841.3
62	Hotels and other lodging places	37.1	40.6	44.0	46.3	48.3	50.4	53.0	56.6	61.7	66.3	70.6	76.3
63	Personal services	31.0	35.9	36.8	38.0	38.8	40.9	44.2	45.5	46.7	47.5	50.1	53.0
64	Business services	145.0	166.9	183.7	203.9	205.3	229.4	247.6	273.2	302.0	342.3	395.5	454.1
65	Auto repair, services, and parking	40.8	45.3	46.5	50.3	51.3	52.1	54.7	60.0	65.1	68.5	72.0	77.6
66	Miscellaneous repair services	13.5	15.4	16.6	17.7	17.0	17.6	19.2	19.3	20.7	21.8	22.3	24.6
67	Motion pictures	13.7	14.3	17.9	17.7	17.9	18.2	20.8	20.0	22.4	24.6	25.2	27.2
68	Amusement and recreation services	26.2	28.8	32.0	36.5	39.4	45.2	45.4	49.2	53.5	58.3	64.8	70.5
69	Health services	230.6	253.6	280.7	314.4	345.3	377.8	394.5	413.9	433.1	459.1	476.2	495.5
70	Legal services	61.8	70.9	76.0	82.7	85.6	92.7	93.0	94.6	101.1	98.0	108.5	116.5
71	Educational services	31.3	34.2	37.1	39.6	43.7	46.5	49.3	52.6	55.7	58.0	61.1	66.4
72	Social services	21.0	23.4	26.7	30.1	33.6	37.3	41.0	44.2	47.4	49.7	53.2	57.8
73	Membership organizations	26.9	30.3	33.2	35.8	38.4	39.9	43.4	46.2	46.7	49.2	51.2	53.7
74	Other services	103.3	119.8	135.8	149.2	150.0	161.1	170.6	178.6	194.4	208.9	229.6	254.1
75	Private households	7.7	8.3	8.9	9.4	9.1	10.1	10.7	11.1	11.9	12.0	12.1	14.0
7													

Table 2.—Gross Product by Industry in Current Dollars as a Percentage of Gross Domestic Product, 1987–98

[Percent]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	Private industries	86.1	86.2	86.3	86.1	85.7	85.8	86.1	86.4	86.6	86.9	87.2	87.4
3	Agriculture, forestry, and fishing	1.9	1.7	1.9	1.9	1.7	1.8	1.6	1.7	1.5	1.7	1.6	1.4
4	Farms	1.4	1.2	1.4	1.4	1.2	1.3	1.1	1.2	1.0	1.2	1.1	0.9
5	Agricultural services, forestry, and fishing	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
6	Mining	1.9	1.9	1.8	1.9	1.6	1.4	1.3	1.3	1.3	1.4	1.5	1.2
7	Metal mining	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8	Coal mining	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
9	Oil and gas extraction	1.4	1.4	1.3	1.5	1.2	1.0	1.0	0.9	0.9	1.1	1.1	0.9
10	Nonmetallic minerals, except fuels	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11	Construction	4.6	4.6	4.5	4.3	3.9	3.7	3.7	3.9	3.9	4.0	4.1	4.3
12	Manufacturing	18.7	19.2	18.5	17.9	17.4	17.1	17.0	17.3	17.4	16.8	16.6	16.4
13	Durable goods	10.9	11.1	10.6	10.1	9.6	9.4	9.5	9.8	9.9	9.6	9.6	9.6
14	Lumber and wood products	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5
15	Furniture and fixtures	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16	Stone, clay, and glass products	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
17	Primary metal industries	0.7	0.8	0.8	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.6
18	Fabricated metal products	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
19	Industrial machinery and equipment	2.0	2.2	2.1	2.0	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.7
20	Electronic and other electric equipment	1.8	1.9	1.9	1.8	1.9	1.7	1.8	2.0	2.0	2.0	2.0	1.9
21	Motor vehicles and equipment	1.2	1.2	1.0	0.8	0.8	0.9	1.2	1.3	1.3	1.2	1.2	1.2
22	Other transportation equipment	1.2	1.1	1.0	1.0	1.0	0.9	0.8	0.7	0.6	0.7	0.7	0.7
23	Instruments and related products	0.8	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.6	0.7	0.7	0.7
24	Miscellaneous manufacturing industries	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25	Nondurable goods	7.8	8.1	7.9	7.8	7.8	7.7	7.5	7.5	7.6	7.3	7.0	6.7
26	Food and kindred products	1.7	1.7	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.4	1.4
27	Tobacco products	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	Textile mill products	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
29	Apparel and other textile products	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
30	Paper and allied products	0.8	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.6
31	Printing and publishing	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.1
32	Chemicals and allied products	1.8	1.9	1.9	1.9	1.9	1.9	1.8	2.0	2.0	2.0	1.9	1.8
33	Petroleum and coal products	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3
34	Rubber and miscellaneous plastics products	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
35	Leather and leather products	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
36	Transportation and public utilities	9.0	8.8	8.5	8.5	8.7	8.5	8.6	8.7	8.7	8.5	8.6	8.7
37	Transportation	3.3	3.3	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.1	3.2	3.2
38	Railroad transportation	0.5	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
39	Local and interurban passenger transit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40	Trucking and warehousing	1.4	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
41	Water transportation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
42	Transportation by air	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0
43	Pipelines, except natural gas	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44	Transportation services	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
45	Communications	2.6	2.6	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.9	3.0
46	Telephone and telegraph	2.3	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.0	2.1	2.3	2.3
47	Radio and television	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7
48	Electric, gas, and sanitary services	3.0	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.5	2.5
49	Wholesale trade	6.5	6.8	6.6	6.5	6.6	6.6	6.5	6.8	6.8	6.8	6.9	7.0
50	Retail trade	9.2	9.0	9.0	8.7	8.7	8.7	8.7	8.8	8.7	8.8	8.8	8.9
51	Finance, insurance, and real estate	17.5	17.5	17.4	17.4	17.9	18.1	18.1	17.8	18.2	18.4	18.8	19.1
52	Depository institutions	3.0	2.9	2.9	3.0	3.2	3.2	3.0	2.8	3.1	3.1	3.3	3.3
53	Nondepository institutions	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.6	0.9
54	Security and commodity brokers	0.9	0.8	0.8	0.7	0.7	0.9	1.0	1.1	1.1	1.4	1.4	1.3
55	Insurance carriers	0.9	1.1	1.1	1.1	1.4	1.3	1.5	1.5	1.6	1.6	1.7	1.6
56	Insurance agents, brokers, and service	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
57	Real estate	11.2	11.5	11.5	11.5	11.5	11.5	11.3	11.2	11.3	11.2	11.1	11.0
58	Nonfarm housing services	8.3	8.3	8.3	8.4	8.6	8.6	8.4	8.4	8.5	8.4	8.2	8.1
59	Other real estate	2.9	3.2	3.2	3.1	2.9	2.9	2.9	2.8	2.8	2.8	2.9	2.9
60	Holding and other investment offices	0.4	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3
61	Services	16.7	17.4	17.8	18.5	18.8	19.3	19.4	19.3	19.8	20.0	20.4	21.0
62	Hotels and other lodging places	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9
63	Personal services	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6
64	Business services	3.1	3.3	3.3	3.5	3.4	3.6	3.7	3.9	4.1	4.4	4.8	5.2
65	Auto repair, services, and parking	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9
66	Miscellaneous repair services	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67	Motion pictures	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68	Amusement and recreation services	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
69	Health services	4.9	5.0	5.1	5.4	5.8	6.0	5.9	5.9	5.9	5.9	5.7	5.7
70	Legal services	1.3	1.4	1.4	1.4	1.4	1.5	1.4	1.3	1.4	1.3	1.3	1.3
71	Educational services	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8
72	Social services	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
73	Membership organizations	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6
74	Other services	2.2	2.3	2.5	2.6	2.5	2.5	2.6	2.5	2.6	2.7	2.8	2.9
75	Private households	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
76	Statistical discrepancy ¹	0.1	-0.8	0.3	0.5	0.3	0.7	1.0	0.8	0.4	0.4	0.0	-0.5
77	Government	13.9	13.8	13.7	13.9	14.3	14.2	13.9	13.6	13.4	13.1	12.8	12.6
78	Federal	5.5	5.3	5.2	5.2	5.4	5.3	5.1	4.8	4.6	4.4	4.3	4.1
79	General government	4.7	4.6	4.5	4.5	4.6	4.5	4.3	4.1	3.9	3.7	3.5	3.4
80	Government enterprises	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
81	State and local	8.5	8.5	8.5	8.7	8.9	8.9	8.9	8.8	8.7	8.6	8.5	8.4
82	General government	7.8	7.8	7.8	8.0	8.2	8.1	8.1	8.0	8.0	7.9	7.8	7.7
83	Government enterprises	0.7	0.7	0.7									

Table 3.—Components of Gross Product in Current Dollars by Industry Group, 1987–98

[Billions of dollars]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	4,742.5	5,108.3	5,489.1	5,803.2	5,986.2	6,318.9	6,642.3	7,054.3	7,400.5	7,813.2	8,300.8	8,759.9
2	Compensation of employees	2,756.9	2,974.7	3,152.3	3,353.3	3,457.7	3,648.1	3,818.1	4,020.6	4,207.0	4,400.1	4,680.7	5,016.4
3	Indirect business tax and nontax liability	369.3	392.6	420.7	447.3	482.3	510.6	540.1	575.3	594.6	620.0	645.8	677.0
4	Property-type income	1,612.9	1,783.2	1,899.7	1,972.0	2,026.6	2,116.6	2,220.4	2,400.0	2,572.5	2,760.2	2,977.5	3,114.1
5	Statistical discrepancy ¹	3.3	-42.2	16.3	30.6	19.6	43.7	63.8	58.5	26.5	32.8	-3.2	-47.6
6	Private industries	4,081.4	4,401.8	4,735.5	4,996.7	5,129.1	5,424.5	5,717.5	6,096.7	6,411.1	6,792.8	7,241.4	7,659.8
7	Compensation of employees	2,198.2	2,378.1	2,517.9	2,670.8	2,735.9	2,895.1	3,040.6	3,217.6	3,382.8	3,550.5	3,803.2	4,106.6
8	Indirect business tax and nontax liability	369.3	392.6	420.7	447.3	482.3	510.6	540.1	575.3	594.6	620.0	645.8	677.0
9	Property-type income	1,510.6	1,673.3	1,780.6	1,848.0	1,891.2	1,975.1	2,073.1	2,245.3	2,407.2	2,589.4	2,795.6	2,923.8
10	Statistical discrepancy ¹	3.3	-42.2	16.3	30.6	19.6	43.7	63.8	58.5	26.5	32.8	-3.2	-47.6
11	Agriculture, forestry and fishing	88.9	89.1	102.0	108.3	102.9	111.7	108.3	118.5	109.8	130.4	129.7	125.2
12	Compensation of employees	21.5	24.3	26.3	29.9	30.3	30.6	32.8	34.8	37.0	39.8	42.7	46.4
13	Indirect business tax and nontax liability	4.8	4.9	5.2	5.6	5.6	5.8	5.8	6.2	6.6	6.7	7.0	7.1
14	Property-type income	62.6	59.9	70.6	72.8	67.0	75.2	69.8	77.5	66.3	83.9	80.0	71.7
15	Mining	92.2	99.2	97.1	111.9	96.7	87.6	88.4	90.2	95.7	113.0	121.0	105.9
16	Compensation of employees	29.6	30.5	30.0	32.2	32.9	32.3	32.1	32.5	32.5	33.4	35.5	36.3
17	Indirect business tax and nontax liability	10.3	10.5	10.6	11.7	11.7	11.5	11.4	11.4	11.3	12.2	12.1	11.9
18	Property-type income	52.3	58.2	56.4	68.0	52.1	43.8	44.9	46.4	51.8	67.5	73.5	57.7
19	Construction	219.3	237.2	245.8	248.7	232.7	234.4	248.9	275.3	290.3	316.4	343.1	373.2
20	Compensation of employees	145.6	157.8	164.8	170.5	160.3	159.2	165.9	182.6	193.1	208.2	227.2	249.0
21	Indirect business tax and nontax liability	4.2	4.6	4.9	5.1	5.1	5.4	5.9	6.5	6.8	7.3	7.9	8.5
22	Property-type income	69.5	74.8	76.1	73.1	67.3	69.8	77.2	86.2	90.3	100.9	108.0	115.8
23	Manufacturing	888.6	979.9	1,017.7	1,040.6	1,043.5	1,082.0	1,131.4	1,223.2	1,289.1	1,316.0	1,377.2	1,432.8
24	Compensation of employees	609.8	650.5	673.6	690.3	696.1	725.9	754.5	793.5	813.3	822.4	867.6	914.9
25	Indirect business tax and nontax liability	30.5	32.4	34.0	36.2	40.9	43.3	44.7	45.9	47.5	49.4	50.1	54.0
26	Property-type income	248.3	297.0	310.1	314.1	306.5	312.9	332.2	383.8	428.3	444.2	459.4	463.9
27	Durable goods	516.8	566.3	582.7	586.6	575.5	594.0	632.8	694.1	729.8	748.4	798.7	842.6
28	Compensation of employees	383.8	410.7	423.3	428.3	425.9	441.2	460.5	488.6	504.0	508.0	540.1	573.9
29	Indirect business tax and nontax liability	11.2	12.2	12.8	13.6	14.3	15.1	15.9	16.7	17.5	18.7	19.3	20.0
30	Property-type income	121.8	143.4	146.7	144.7	135.3	137.6	156.4	188.7	208.4	221.7	239.3	248.8
31	Nondurable goods	371.8	413.6	434.9	454.0	468.0	488.0	498.6	529.1	559.2	567.6	578.5	590.1
32	Compensation of employees	226.0	239.8	250.4	262.0	270.2	284.6	294.0	304.9	309.4	314.4	327.5	341.0
33	Indirect business tax and nontax liability	19.4	20.3	21.1	22.6	26.6	28.1	28.8	29.1	30.0	30.7	30.9	34.0
34	Property-type income	126.5	153.6	163.4	169.4	171.2	175.3	175.8	195.1	219.8	222.5	220.1	215.1
35	Transportation and public utilities	426.2	449.0	468.7	490.9	518.3	538.5	573.3	611.4	642.6	666.3	713.2	759.1
36	Compensation of employees	192.1	200.3	208.5	221.5	229.4	239.8	250.2	267.3	275.1	285.0	301.6	322.4
37	Indirect business tax and nontax liability	40.3	43.0	46.0	49.4	53.5	56.6	59.6	62.7	65.3	65.5	68.7	73.7
38	Property-type income	193.8	205.7	214.1	220.1	235.3	242.1	263.5	281.4	302.2	315.8	342.9	363.1
39	Wholesale trade	308.9	346.6	364.7	376.1	395.6	414.6	432.5	479.2	500.6	529.6	572.3	613.8
40	Compensation of employees	181.2	198.9	213.2	222.7	227.3	239.2	245.0	260.7	276.0	288.8	310.2	335.4
41	Indirect business tax and nontax liability	67.3	74.8	78.8	81.7	90.4	94.9	100.8	113.7	116.1	118.9	122.6	126.9
42	Property-type income	60.4	72.9	72.8	71.8	78.0	80.6	86.7	104.8	108.5	121.9	139.5	151.5
43	Retail trade	434.5	461.5	492.7	507.8	523.7	551.7	578.0	620.6	646.8	687.1	734.1	781.9
44	Compensation of employees	262.6	281.2	295.4	308.5	315.5	332.5	343.1	363.4	382.0	398.3	420.2	446.6
45	Indirect business tax and nontax liability	75.0	78.3	84.1	88.6	91.7	98.0	104.4	112.9	120.3	127.2	133.9	141.5
46	Property-type income	96.9	102.1	113.2	110.7	116.5	121.2	130.5	144.3	144.5	161.6	180.1	193.8
47	Finance, insurance and real estate	829.7	893.7	954.5	1,010.3	1,072.2	1,140.9	1,205.3	1,254.8	1,347.2	1,436.8	1,561.6	1,674.2
48	Compensation of employees	204.6	221.5	229.3	243.6	253.5	275.4	300.5	311.4	322.8	351.8	381.8	425.9
49	Indirect business tax and nontax liability	115.7	120.4	131.2	140.5	152.5	161.5	169.9	175.1	176.6	185.3	193.2	199.9
50	Property-type income	509.3	551.8	594.0	626.3	666.2	704.0	734.9	768.3	847.8	899.7	986.6	1,048.4
51	Services	789.9	887.9	976.0	1,071.5	1,123.8	1,219.4	1,287.7	1,365.0	1,462.4	1,564.2	1,692.5	1,841.3
52	Compensation of employees	551.2	613.1	676.7	751.7	790.7	860.2	916.6	971.4	1,050.9	1,122.9	1,216.5	1,329.8
53	Indirect business tax and nontax liability	21.2	23.8	26.1	28.7	30.8	33.5	37.5	41.0	44.1	47.5	50.4	53.5
54	Property-type income	217.5	251.0	273.2	291.1	302.3	325.7	333.5	352.6	367.5	393.9	425.6	458.0
55	Government	661.0	706.5	753.6	806.6	857.1	894.4	924.8	957.6	989.5	1,020.4	1,059.4	1,100.1
56	Compensation of employees	558.8	596.5	634.5	682.6	721.8	753.0	777.5	803.0	824.2	849.6	877.5	909.9
57	Indirect business tax and nontax liability	0	0	0	0	0	0	0	0	0	0	0	0
58	Property-type income	102.3	109.9	119.1	124.0	135.3	141.4	147.3	154.6	165.3	170.8	181.9	190.3

1. Equals GDP measured as the sum of expenditures less gross domestic income.

Table 4.—Components of Gross Product in Current Dollars as a Percentage of Gross Domestic Product by Industry Group, 1987–98

[Percent]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	Compensation of employees	58.1	58.2	57.4	57.8	57.8	57.7	57.5	57.0	56.8	56.3	56.4	57.3
3	Indirect business tax and nontax liability	7.8	7.7	7.7	7.7	8.1	8.1	8.1	8.2	8.0	7.9	7.8	7.7
4	Property-type income	34.0	34.9	34.6	34.0	33.9	33.5	33.4	34.0	34.8	35.3	35.9	35.5
5	Statistical discrepancy ¹	0.1	-0.8	0.3	0.5	0.3	0.7	1.0	0.8	0.4	0.4	0	-0.5
6	Private industries	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	Compensation of employees	53.9	54.0	53.2	53.5	53.3	53.4	53.2	52.8	52.8	52.3	52.5	53.6
8	Indirect business tax and nontax liability	9.0	8.9	8.9	9.0	9.4	9.4	9.4	9.4	9.3	9.1	8.9	8.8
9	Property-type income	37.0	38.0	37.6	37.0	36.9	36.4	36.3	36.8	37.5	38.1	38.6	38.2
10	Statistical discrepancy ¹	0.1	-1.0	0.3	0.6	0.4	0.8	1.1	1.0	0.4	0.5	0	-0.6
11	Agriculture, forestry and fishing	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12	Compensation of employees	24.2	27.3	25.8	27.6	29.4	27.4	30.2	29.3	33.7	30.5	33.0	37.0
13	Indirect business tax and nontax liability	5.4	5.5	5.0	5.1	5.5	5.2	5.4	5.2	6.0	5.1	5.4	5.7
14	Property-type income	70.4	67.2	69.2	67.2	65.1	67.3	64.4	65.4	60.3	64.4	61.7	57.3
15	Mining	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16	Compensation of employees	32.2	30.8	31.0	28.7	34.0	36.9	36.3	36.0	34.0	29.5	29.3	34.3
17	Indirect business tax and nontax liability	11.1	10.6	10.9	10.5	12.1	13.1	12.9	12.6	11.9	10.8	10.0	11.3
18	Property-type income	56.7	58.7	58.1	60.8	53.9	50.0	50.8	51.4	54.2	59.7	60.7	54.5
19	Construction	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20	Compensation of employees	66.4	66.5	67.1	68.6	68.9	67.9	66.6	66.3	66.5	65.8	66.2	66.7
21	Indirect business tax and nontax liability	1.9	1.9	2.0	2.0	2.2	2.3	2.4	2.4	2.4	2.3	2.3	2.3
22	Property-type income	31.7	31.5	31.0	29.4	28.9	29.8	31.0	31.3	31.1	31.9	31.5	31.0
23	Manufacturing	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
24	Compensation of employees	68.6	66.4	66.2	66.3	66.7	67.1	66.7	64.9	63.1	62.5	63.0	63.9
25	Indirect business tax and nontax liability	3.4	3.3	3.3	3.5	3.9	4.0	4.0	3.7	3.7	3.8	3.6	3.8
26	Property-type income	27.9	30.3	30.5	30.2	29.4	28.9	29.4	31.4	33.2	33.8	33.4	32.4
27	Durable goods	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28	Compensation of employees	74.3	72.5	72.6	73.0	74.0	74.3	72.8	70.4	69.1	67.9	67.6	68.1
29	Indirect business tax and nontax liability	2.2	2.1	2.2	2.3	2.5	2.5	2.5	2.4	2.4	2.5	2.4	2.4
30	Property-type income	23.6	25.3	25.2	24.7	23.5	23.2	24.7	27.2	28.6	29.6	30.0	29.5
31	Nondurable goods	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
32	Compensation of employees	60.8	58.0	57.6	57.7	57.7	58.3	59.0	57.6	55.3	55.4	56.6	57.8
33	Indirect business tax and nontax liability	5.2	4.9	4.9	5.0	5.7	5.8	5.8	5.5	5.4	5.4	5.3	5.8
34	Property-type income	34.0	37.1	37.6	37.3	36.6	35.9	35.3	36.9	39.3	39.2	38.1	36.5
35	Transportation and public utilities	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36	Compensation of employees	45.1	44.6	44.5	45.1	44.3	44.5	43.6	43.7	42.8	42.8	42.3	42.5
37	Indirect business tax and nontax liability	9.5	9.6	9.8	10.1	10.3	10.5	10.4	10.3	10.2	9.8	9.6	9.7
38	Property-type income	45.5	45.8	45.7	44.8	45.4	45.0	46.0	46.0	47.0	47.4	48.1	47.8
39	Wholesale trade	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40	Compensation of employees	58.7	57.4	58.4	59.2	57.4	57.7	56.6	54.4	55.1	54.5	54.2	54.6
41	Indirect business tax and nontax liability	21.8	21.6	21.6	21.7	22.8	22.9	23.3	23.7	23.2	22.4	21.4	20.7
42	Property-type income	19.6	21.0	20.0	19.1	19.7	19.4	20.0	21.9	21.7	23.0	24.4	24.7
43	Retail trade	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
44	Compensation of employees	60.4	60.9	60.0	60.8	60.2	60.3	59.4	58.6	59.1	58.0	57.2	57.1
45	Indirect business tax and nontax liability	17.3	17.0	17.1	17.4	17.5	17.8	18.1	18.2	18.6	18.5	18.2	18.1
46	Property-type income	22.3	22.1	23.0	21.8	22.2	22.0	22.6	23.3	22.3	23.5	24.5	24.8
47	Finance, insurance and real estate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48	Compensation of employees	24.7	24.8	24.0	24.1	23.6	24.1	24.9	24.8	24.0	24.5	24.4	25.4
49	Indirect business tax and nontax liability	14.0	13.5	13.7	13.9	14.2	14.2	14.1	14.0	13.1	12.9	12.4	11.9
50	Property-type income	61.4	61.7	62.2	62.0	62.1	61.7	61.0	61.2	62.9	62.6	63.2	62.6
51	Services	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
52	Compensation of employees	69.8	69.0	69.3	70.1	70.4	70.5	71.2	71.2	71.9	71.8	71.9	72.2
53	Indirect business tax and nontax liability	2.7	2.7	2.7	2.7	2.7	2.7	2.9	3.0	3.0	3.0	3.0	2.9
54	Property-type income	27.5	28.3	28.0	27.2	26.9	26.7	25.9	25.8	25.1	25.2	25.1	24.9
55	Government	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
56	Compensation of employees	84.5	84.4	84.2	84.6	84.2	84.2	84.1	83.9	83.3	83.3	82.8	82.7
57	Indirect business tax and nontax liability	0	0	0	0	0	0	0	0	0	0	0	0
58	Property-type income	15.5	15.6	15.8	15.4	15.8	15.8	15.9	16.1	16.7	16.7	17.2	17.3

1. Equals GDP measured as the sum of expenditures less gross domestic income.

Table 5.—Chain-Type Quantity Indexes for Gross Domestic Product by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	78.24	81.51	84.37	85.85	85.45	88.06	90.39	94.04	96.55	100.00	104.25	108.74
2	Private industries	76.73	80.17	83.15	84.46	84.03	86.57	88.97	92.96	95.82	100.00	105.20	110.57
3	Agriculture, forestry, and fishing	84.57	77.59	85.38	90.85	92.99	100.19	93.96	104.08	94.40	100.00	109.68	109.58
4	Farms	85.45	76.20	86.20	91.28	92.86	103.76	93.04	108.75	92.69	100.00	112.04	109.23
5	Agricultural services, forestry, and fishing	83.04	82.19	83.85	90.45	94.11	92.49	96.28	94.60	98.29	100.00	104.60	109.60
6	Mining	87.17	101.32	90.98	93.63	89.46	84.66	89.43	95.64	99.94	100.00	105.63	111.80
7	Metal mining	55.88	64.03	65.00	75.03	95.79	101.81	100.30	96.86	94.68	100.00	109.82	123.10
8	Coal mining	60.49	64.54	65.03	67.47	68.27	75.34	75.41	86.26	90.19	100.00	103.91	113.85
9	Oil and gas extraction	94.60	114.36	99.12	101.59	94.49	85.34	92.43	97.30	102.94	100.00	105.03	109.69
10	Nonmetallic minerals, except fuels	90.90	86.81	83.21	81.78	77.26	79.91	77.63	92.05	91.74	100.00	110.40	121.07
11	Construction	87.97	92.96	93.64	91.87	84.94	85.88	88.23	93.92	94.69	100.00	104.07	108.37
12	Manufacturing	79.50	85.12	84.46	83.76	81.02	82.45	85.33	91.63	97.62	100.00	105.27	110.08
13	Durable goods	72.29	79.14	78.78	78.18	74.74	76.02	80.21	87.71	95.51	100.00	109.58	121.12
14	Lumber and wood products	126.60	124.47	118.66	112.95	103.35	99.02	92.45	97.35	104.17	100.00	100.95	105.66
15	Furniture and fixtures	92.94	92.52	92.92	87.47	82.27	89.24	97.20	97.37	100.16	100.00	107.37	114.74
16	Stone, clay, and glass products	80.24	83.57	88.44	88.72	80.92	89.22	87.74	96.41	98.96	100.00	112.60	119.81
17	Primary metal industries	83.49	88.76	85.94	85.88	84.28	85.90	95.41	99.29	97.59	100.00	101.61	109.13
18	Fabricated metal products	83.07	88.30	84.72	81.73	75.98	77.56	81.38	92.78	97.45	100.00	105.31	106.56
19	Industrial machinery and equipment	53.88	64.63	67.91	68.59	63.06	67.81	71.03	78.33	91.53	100.00	116.77	141.98
20	Electronic and other electric equipment	35.22	39.69	43.33	44.81	47.49	47.88	55.48	67.41	84.04	100.00	119.05	144.99
21	Motor vehicles and equipment	92.85	99.31	83.64	74.48	63.84	74.47	92.30	107.48	111.85	100.00	108.58	113.60
22	Other transportation equipment	148.27	145.60	146.68	147.07	142.79	124.88	113.33	101.53	96.11	100.00	106.65	112.44
23	Instruments and related products	112.81	135.66	124.03	128.26	125.42	119.09	106.49	100.09	97.80	100.00	93.08	92.39
24	Miscellaneous manufacturing industries	82.94	94.10	96.93	96.11	90.91	86.64	89.93	95.27	98.18	100.00	105.72	106.64
25	Nondurable goods	90.20	93.64	92.51	91.65	90.00	91.62	92.56	97.11	100.48	100.00	99.69	96.27
26	Food and kindred products	87.78	95.75	91.24	92.30	94.11	93.88	96.55	94.89	112.32	100.00	96.45	95.61
27	Tobacco products	152.12	142.01	117.19	97.72	77.59	64.57	62.55	93.22	105.72	100.00	97.61	78.27
28	Textile mill products	87.14	85.97	87.07	90.01	90.05	100.97	102.35	106.16	102.50	100.00	99.11	96.15
29	Apparel and other textile products	97.67	102.47	103.92	101.23	100.08	102.91	102.27	105.46	103.93	100.00	96.40	91.72
30	Paper and allied products	91.87	95.65	92.85	93.87	96.01	98.70	108.56	109.76	93.41	100.00	104.33	99.08
31	Printing and publishing	117.41	120.99	121.82	116.56	110.90	109.43	102.53	104.99	101.04	100.00	97.01	98.12
32	Chemicals and allied products	79.08	79.60	80.19	85.36	84.05	86.39	85.95	94.67	96.34	100.00	103.15	97.32
33	Petroleum and coal products	96.21	102.06	94.19	75.95	66.43	69.74	71.42	72.85	88.95	100.00	85.50	79.54
34	Rubber and miscellaneous plastics products	59.70	63.10	69.35	68.38	70.60	76.39	82.91	90.32	94.62	100.00	108.24	107.99
35	Leather and leather products	122.01	124.40	127.00	124.28	124.83	124.25	116.16	121.99	126.26	100.00	106.58	99.88
36	Transportation and public utilities	69.10	71.89	75.10	78.78	81.50	83.40	86.49	90.97	95.23	100.00	105.07	108.95
37	Transportation	66.72	68.76	70.91	74.21	76.38	79.54	82.66	89.82	92.47	100.00	105.52	107.48
38	Railroad transportation	76.67	81.73	73.83	77.34	89.02	88.60	89.39	94.37	96.85	100.00	98.19	96.75
39	Local and interurban passenger transit	96.58	90.17	98.32	95.03	92.90	92.60	94.41	95.48	98.28	100.00	109.96	113.90
40	Trucking and warehousing	70.98	71.32	73.13	74.00	77.80	82.24	85.85	92.58	94.07	100.00	105.88	104.91
41	Water transportation	67.30	67.34	75.74	83.54	86.42	84.89	86.43	92.96	92.57	100.00	109.97	109.61
42	Transportation by air	47.82	54.29	58.30	66.28	63.53	69.47	73.29	84.15	88.88	100.00	106.66	110.31
43	Pipelines, except natural gas	132.47	113.32	114.51	100.71	108.53	103.78	105.64	96.71	87.87	100.00	111.66	121.32
44	Transportation services	70.29	69.98	73.39	75.88	76.72	76.28	79.42	85.91	90.91	100.00	101.98	111.55
45	Communications	61.78	65.61	68.08	72.28	75.50	78.86	84.81	88.90	94.27	100.00	111.86	119.53
46	Telephone and telegraph	62.76	66.07	67.20	71.42	73.67	76.56	82.85	86.75	90.03	100.00	116.38	127.53
47	Radio and television	54.66	61.03	69.92	73.93	81.24	86.47	90.95	95.70	108.75	100.00	97.88	95.65
48	Electric, gas, and sanitary services	79.63	82.23	87.65	91.23	94.07	92.77	92.83	94.45	99.50	100.00	97.57	99.88
49	Wholesale trade	66.76	71.63	75.39	74.60	78.67	84.02	85.43	90.94	91.21	100.00	111.27	125.38
50	Retail trade	74.53	79.26	81.87	81.43	80.71	82.92	84.68	89.83	93.35	100.00	107.59	115.81
51	Finance, insurance, and real estate	81.37	84.15	85.91	87.04	88.43	90.30	92.49	93.79	96.95	100.00	105.13	111.83
52	Depository institutions	91.54	90.29	95.79	101.23	102.27	97.39	97.05	94.55	100.57	100.00	100.29	107.01
53	Nondepository institutions	57.18	61.02	70.19	67.16	64.12	74.79	87.80	76.13	85.15	100.00	141.64	223.35
54	Security and commodity brokers	38.39	39.48	41.81	38.89	37.01	47.08	58.39	70.25	70.78	100.00	114.94	126.19
55	Insurance carriers	88.99	101.98	92.95	90.92	110.91	99.77	106.59	103.51	105.29	100.00	106.20	105.08
56	Insurance agents, brokers, and service	135.71	137.40	125.94	125.61	126.42	115.70	104.22	105.53	102.18	100.00	99.95	100.79
57	Real estate	78.66	84.15	86.58	87.58	88.13	91.71	92.42	94.96	97.84	100.00	103.59	106.98
58	Nonfarm housing services	81.41	84.19	87.02	88.62	90.92	93.01	93.12	96.45	99.00	100.00	101.14	102.51
59	Other real estate	71.15	83.47	84.83	84.26	80.23	87.85	90.23	90.53	94.38	100.00	111.13	121.00
60	Holding and other investment offices	1244.66	345.48	132.19	220.50	166.99	224.78	338.24	182.43	213.02	100.00	161.69	353.38
61	Services	75.50	80.24	83.99	87.07	86.46	88.95	90.65	93.21	96.56	100.00	104.49	109.20
62	Hotels and other lodging places	78.62	80.24	82.29	83.30	81.35	83.08	84.73	88.04	94.66	100.00	99.87	96.16
63	Personal services	92.54	102.84	99.78	97.63	94.82	96.89	101.01	100.54	101.16	100.00	101.70	105.08
64	Business services	54.66	60.96	66.02	70.48	68.86	74.40	78.81	86.16	91.70	100.00	111.91	123.11
65	Auto repair, services, and parking	83.41	89.02	87.25	90.42	87.83	85.54	86.37	91.82	96.26	100.00	101.33	105.08
66	Miscellaneous repair services	97.81	109.24	115.96	116.44	105.94	99.36	98.98	97.90	102.66	100.00	96.80	99.34
67	Motion pictures	77.59	78.23	92.03	85.99	82.44	82.70	94.51	87.96	95.93	100.00	100.24	106.11
68	Amusement and recreation services	63.57	66.73	71.27	77.15	79.12	88.52	86.26	90.20	95.29	100.00	107.93	113.45
69	Health services	85.45	86.92	88.93	92.18	94.29	96.40	95.28	95.46	96.77	100.00	100.93	101.73
70	Legal services	99.80	109.61	110.68	111.02	108.10	110.54	105.74	103.73	107.31	100.00	105.96	

SURVEY OF CURRENT BUSINESS
Table 6.—Real Gross Domestic Product by Industry, 1987–98

[Billions of chained (1996) dollars]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	6,113.3	6,368.4	6,591.8	6,707.9	6,676.4	6,880.0	7,062.6	7,347.7	7,543.8	7,813.2	8,144.8	8,495.7
2	Private industries	5,212.0	5,445.6	5,648.2	5,736.8	5,707.8	5,880.3	6,043.2	6,314.4	6,508.7	6,792.8	7,146.1	7,510.5
3	Agriculture, forestry, and fishing	110.3	101.2	111.4	118.5	121.3	130.7	122.6	135.8	123.1	130.4	143.1	142.9
4	Farms	78.8	70.2	79.5	84.2	85.6	95.7	85.8	100.3	85.5	92.2	103.3	100.7
5	Agricultural services, forestry, and fishing	31.8	31.4	32.1	34.6	36.0	35.4	36.8	36.2	37.6	38.3	40.0	41.9
6	Mining	98.5	114.5	102.8	105.8	101.1	95.7	101.1	108.1	113.0	113.0	119.4	126.4
7	Metal mining	3.3	3.7	3.8	4.4	5.6	5.9	5.9	5.7	5.5	5.8	6.4	7.2
8	Coal mining	6.8	7.2	7.3	7.5	7.6	8.4	8.4	9.6	10.1	11.2	11.6	12.7
9	Oil and gas extraction	81.5	98.5	85.3	87.5	81.4	73.5	79.6	83.8	88.6	86.1	90.4	94.5
10	Nonmetallic minerals, except fuels	9.0	8.6	8.2	8.1	7.7	7.9	7.7	9.1	9.1	9.9	10.9	12.0
11	Construction	278.4	294.1	296.3	290.7	268.8	271.7	279.2	297.2	299.6	316.4	329.3	342.9
12	Manufacturing	1,046.3	1,120.2	1,111.6	1,102.3	1,066.3	1,085.0	1,122.9	1,206.0	1,284.7	1,316.0	1,385.5	1,448.7
13	Durable goods	541.0	592.3	589.7	585.1	559.4	568.9	600.3	656.5	714.9	748.4	820.2	906.5
14	Lumber and wood products	50.5	49.7	47.4	45.1	41.3	39.5	36.9	38.9	41.6	39.9	40.3	42.2
15	Furniture and fixtures	19.3	19.2	19.2	18.1	17.0	18.5	20.1	20.2	20.7	20.7	22.2	23.8
16	Stone, clay, and glass products	26.6	27.7	29.3	29.4	26.8	29.6	29.1	32.0	32.8	33.2	37.3	39.7
17	Primary metal industries	42.4	45.1	43.7	43.7	42.8	43.7	48.5	50.5	49.6	50.8	51.7	55.5
18	Fabricated metal products	77.4	82.2	78.9	76.1	70.8	72.2	75.8	86.4	90.8	93.1	98.1	99.3
19	Industrial machinery and equipment	73.4	88.1	92.6	93.5	85.9	92.4	96.8	106.8	124.7	136.3	159.1	193.5
20	Electronic and other electric equipment	54.0	60.8	66.4	68.6	72.7	73.3	85.0	103.3	128.7	153.2	182.4	222.1
21	Motor vehicles and equipment	85.6	91.6	77.2	68.7	58.9	68.7	85.1	99.1	103.2	92.2	100.2	104.8
22	Other transportation equipment	76.3	74.9	75.5	75.7	73.5	64.2	58.3	52.2	49.4	51.4	54.9	57.8
23	Instruments and related products	60.6	72.9	66.7	68.9	67.4	64.0	57.2	53.8	52.6	53.7	50.0	49.7
24	Miscellaneous manufacturing industries	19.7	22.4	23.0	22.8	21.6	20.6	21.4	22.6	23.3	23.8	25.1	25.3
25	Nondurable goods	512.0	531.5	525.1	520.2	510.8	520.0	525.4	551.2	570.3	567.6	565.9	546.4
26	Food and kindred products	104.2	113.6	108.3	109.5	111.7	111.4	114.6	112.6	133.3	118.7	114.5	113.5
27	Tobacco products	22.5	21.0	17.4	14.5	11.5	9.6	9.3	13.8	15.7	14.8	14.5	11.6
28	Textile mill products	22.1	21.8	22.1	22.8	22.8	25.6	25.9	26.9	26.0	25.3	25.1	24.4
29	Apparel and other textile products	26.3	27.6	28.0	27.3	27.0	27.7	27.6	28.4	28.0	27.0	26.0	24.7
30	Paper and allied products	51.3	53.5	51.9	52.5	53.7	55.2	60.7	61.3	52.2	55.9	58.3	55.4
31	Printing and publishing	103.6	106.8	107.5	102.9	97.9	96.6	90.5	92.6	89.2	88.2	85.6	86.6
32	Chemicals and allied products	121.5	122.3	123.2	131.1	129.1	132.7	132.1	145.5	148.0	153.6	158.5	149.5
33	Petroleum and coal products	29.1	30.8	28.4	22.9	20.1	21.1	21.6	22.0	26.9	30.2	25.8	24.0
34	Rubber and miscellaneous plastics products	29.6	31.3	34.4	34.0	35.1	37.9	41.2	44.9	47.0	49.7	53.8	53.6
35	Leather and leather products	5.1	5.2	5.3	5.2	5.2	5.2	4.9	5.1	5.3	4.2	4.5	4.2
36	Transportation and public utilities	460.4	479.0	500.4	525.0	543.1	555.7	576.3	606.1	634.5	666.3	700.1	726.0
37	Transportation	162.4	167.4	172.6	180.6	185.9	193.6	201.2	218.6	225.1	243.4	256.8	261.6
38	Railroad transportation	18.0	19.2	17.3	18.1	20.9	20.8	21.0	22.1	22.7	23.4	23.0	22.7
39	Local and interurban passenger transit	13.0	12.1	13.2	12.8	12.5	12.4	12.7	12.8	13.2	13.4	14.8	15.3
40	Trucking and warehousing	65.4	65.7	67.3	68.1	71.6	75.7	79.1	85.3	86.6	92.1	97.5	96.6
41	Water transportation	8.2	8.2	9.2	10.2	10.5	10.3	10.5	11.3	11.3	12.2	13.4	13.4
42	Transportation by air	33.9	38.4	41.3	46.9	45.0	49.2	51.9	59.6	62.9	70.8	75.5	78.1
43	Pipelines, except natural gas	7.6	6.5	6.5	5.7	6.2	5.9	6.0	5.5	5.0	5.7	6.4	6.9
44	Transportation services	18.1	18.0	18.9	19.5	19.8	19.6	20.4	22.1	23.4	25.7	26.3	28.7
45	Communications	132.6	140.8	146.1	155.2	162.1	169.3	182.1	190.8	202.4	214.7	240.1	256.6
46	Telephone and telegraph	102.9	108.3	110.2	117.1	120.8	125.5	135.8	142.2	147.6	163.9	190.8	209.1
47	Radio and television	27.7	31.0	35.5	37.5	41.2	43.9	46.2	48.6	55.2	50.7	49.7	48.5
48	Electric, gas, and sanitary services	165.8	171.3	182.5	190.0	195.9	193.2	193.3	196.7	207.2	208.3	203.2	208.0
49	Wholesale trade	353.5	379.4	399.3	395.1	416.6	444.9	452.4	481.6	483.0	529.6	589.3	664.0
50	Retail trade	512.1	544.6	562.5	559.5	554.6	569.7	581.8	617.2	641.4	687.1	739.2	795.7
51	Finance, insurance, and real estate	1,169.1	1,209.1	1,234.3	1,250.6	1,270.6	1,297.4	1,328.9	1,347.6	1,393.0	1,436.8	1,510.5	1,606.7
52	Depository institutions	220.6	217.6	230.9	244.0	246.5	234.7	233.9	227.9	242.4	241.0	241.7	257.9
53	Nondepository institutions	22.4	23.9	27.5	26.3	25.2	29.3	34.4	29.9	33.4	39.2	55.6	87.6
54	Security and commodity brokers	41.5	42.6	45.2	42.0	40.0	50.9	63.1	75.9	76.5	108.0	124.2	136.3
55	Insurance carriers	109.8	125.8	114.7	112.2	136.8	123.1	131.5	127.7	129.9	123.4	131.0	129.6
56	Insurance agents, brokers, and service	66.3	67.1	61.6	61.4	61.8	56.5	50.9	51.6	49.9	48.9	48.8	49.3
57	Real estate	685.6	733.5	754.6	763.4	768.2	799.3	805.5	827.7	852.8	871.6	902.9	932.4
58	Nonfarm housing services	532.9	551.1	569.6	580.1	595.1	608.8	609.5	631.4	648.0	654.6	662.0	671.0
59	Other real estate	154.4	181.2	184.1	182.9	174.1	190.7	195.8	196.5	204.9	217.0	241.2	262.6
60	Holding and other investment offices	57.7	16.0	6.1	10.2	7.7	10.4	15.7	8.5	9.9	4.6	7.5	16.4
61	Services	1,181.0	1,255.1	1,313.8	1,361.9	1,352.4	1,391.4	1,418.0	1,458.1	1,510.4	1,564.2	1,634.4	1,708.1
62	Hotels and other lodging places	52.1	53.2	54.5	55.2	53.9	55.0	56.3	58.3	62.7	66.3	66.2	63.7
63	Personal services	44.0	48.8	47.4	46.4	45.0	46.0	48.0	47.8	48.1	47.5	48.3	49.9
64	Business services	187.1	208.7	226.0	241.3	235.7	254.7	269.8	295.0	313.9	342.3	383.1	421.5
65	Auto repair, services, and parking	57.1	61.0	59.7	61.9	60.1	58.6	59.1	62.9	65.9	68.5	69.4	72.0
66	Miscellaneous repair services	21.4	23.9	25.3	25.4	23.1	21.7	21.6	21.4	22.4	21.8	21.1	21.7
67	Motion pictures	19.1	19.3	22.7	21.2	20.3	20.4	23.3	21.7	23.6	24.6	24.7	26.1
68	Amusement and recreation services	37.1	38.9	41.5	45.0	46.1	51.6	50.3	52.6	55.6	58.3	62.9	66.1
69	Health services	392.3	399.0	408.3	423.2	432.9	442.5	437.4	438.2	444.3	459.1	463.4	467.0
70	Legal services	97.8	107.4	108.4	108.8	105.9	108.3	103.6	101.6	105.1	98.0	103.8	107.1
71	Educational services	47.7	48.9	50.0	50.3	52.6	53.4	55.0	56.7	58.5	58.0	58.6	60.9
72	Social services	31.4	32.9	35.7	38.0	39.9	41.9	45.0	47.2	49.3	49.7	51.0	52.4
73	Membership organizations	36.5	38.5	40.8	43.4	45.2	45.3	48.2	50.8	49.0	49.2	48.6	48.5
74	Other services	153.0	167.0	183.7	191.3	182.5	181.4	189.0	192.1	199.9	208.9	221.6	238.3
75	Private households	10.2	10.6	11.1	11.4	10.5	11.3	11.7	11.8	12.2	12.0	11.8	1

Table 7.—Chain-Type Price Indexes for Gross Domestic Product by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	Gross domestic product	77.58	80.21	83.27	86.51	89.66	91.84	94.05	96.01	98.10	100.00	101.91	103.11
2	Private industries	78.31	80.83	83.84	87.10	89.86	92.25	94.61	96.55	98.50	100.00	101.33	101.99
3	Agriculture, forestry, and fishing	80.59	88.01	91.61	91.35	84.85	85.44	88.40	87.28	89.20	100.00	90.63	87.60
4	Farms	82.60	90.82	95.93	94.56	85.51	84.12	85.76	83.36	85.65	100.00	85.24	79.60
5	Agricultural services, forestry, and fishing	75.01	80.39	80.44	82.88	82.58	88.14	94.43	96.52	97.50	100.00	103.99	107.45
6	Mining	93.54	86.60	94.38	105.70	95.63	91.58	87.43	83.46	84.67	100.00	101.37	83.81
7	Metal mining	113.35	134.96	136.90	117.98	100.44	94.39	82.86	98.09	118.20	100.00	89.81	69.85
8	Coal mining	192.36	174.70	164.85	156.42	149.96	142.62	124.81	117.03	106.45	100.00	95.46	91.13
9	Oil and gas extraction	82.71	74.70	84.43	99.54	88.70	84.77	82.58	76.96	78.14	100.00	102.63	81.51
10	Nonmetallic minerals, except fuels	89.75	92.59	94.91	96.70	97.60	97.45	94.66	97.67	100.32	100.00	103.93	102.60
11	Construction	78.77	80.64	82.97	85.56	86.59	86.27	89.16	92.65	96.90	100.00	104.18	108.84
12	Manufacturing	84.93	87.48	91.55	94.40	97.86	99.72	100.76	101.43	100.34	100.00	99.40	98.90
13	Durable goods	95.51	95.61	98.83	100.25	102.89	104.40	105.42	105.73	102.10	100.00	97.38	92.95
14	Lumber and wood products	63.51	66.36	71.27	71.36	73.53	81.67	96.76	102.42	101.75	100.00	104.04	104.12
15	Furniture and fixtures	75.79	78.60	82.29	86.03	89.23	89.66	89.71	93.63	94.18	100.00	102.58	106.12
16	Stone, clay, and glass products	87.62	85.84	85.91	86.15	88.85	88.76	90.90	95.03	98.66	100.00	101.65	105.99
17	Primary metal industries	81.30	95.54	103.66	98.97	93.12	90.58	88.73	94.24	106.80	100.00	100.24	98.70
18	Fabricated metal products	80.94	81.93	86.80	91.15	95.05	96.23	96.83	96.31	96.03	100.00	101.59	105.50
19	Industrial machinery and equipment	129.60	125.23	126.26	126.45	126.84	123.12	117.46	113.36	106.48	100.00	90.37	79.22
20	Electronic and other electric equipment	162.44	158.93	158.17	154.03	152.26	146.82	142.35	134.89	114.09	100.00	91.05	75.79
21	Motor vehicles and equipment	67.92	66.19	68.27	68.90	77.27	85.62	91.60	96.01	95.21	100.00	99.37	100.18
22	Other transportation equipment	72.81	71.89	75.36	79.92	84.97	90.37	92.96	95.04	96.45	100.00	101.34	103.26
23	Instruments and related products	61.57	61.15	65.34	71.48	76.40	81.01	84.57	87.07	89.73	100.00	108.04	118.86
24	Miscellaneous manufacturing industries	80.03	80.35	83.46	86.85	91.60	95.09	97.75	98.34	97.18	100.00	101.76	104.81
25	Non-durable goods	72.62	77.82	82.83	87.28	91.62	93.84	94.90	96.00	98.05	100.00	102.23	108.01
26	Food and kindred products	75.93	74.48	82.14	88.01	92.85	95.05	93.89	97.89	90.88	100.00	104.24	107.55
27	Tobacco products	45.92	52.88	64.78	82.35	110.81	144.64	132.42	95.87	96.30	100.00	111.12	153.87
28	Textile mill products	91.21	94.66	95.14	96.27	98.22	100.28	99.14	95.17	95.55	100.00	102.35	105.11
29	Apparel and other textile products	87.47	87.56	90.58	93.07	96.58	98.84	100.30	100.41	97.29	100.00	100.31	102.91
30	Paper and allied products	73.53	81.84	87.68	85.83	83.20	82.67	77.36	81.68	112.90	100.00	91.87	99.21
31	Printing and publishing	59.92	62.31	66.47	71.03	76.64	81.73	86.75	90.09	90.63	100.00	105.36	111.17
32	Chemicals and allied products	68.97	78.06	83.80	83.83	88.23	89.73	92.89	95.37	101.89	100.00	100.20	106.11
33	Petroleum and coal products	75.90	104.84	104.92	138.18	143.61	134.13	143.57	133.34	107.88	100.00	121.98	125.13
34	Rubber and miscellaneous plastics products	99.77	97.76	97.81	99.86	102.23	101.26	101.12	100.14	98.19	100.00	98.07	102.41
35	Leather and leather products	77.17	84.41	87.49	90.97	93.29	94.71	96.41	97.53	99.92	100.00	101.91	105.06
36	Transportation and public utilities	92.56	93.72	93.66	93.51	95.44	96.90	99.47	100.87	101.27	100.00	101.86	104.57
37	Transportation	97.80	101.11	99.78	98.22	100.12	99.91	102.38	102.10	103.69	100.00	102.33	108.53
38	Railroad transportation	121.84	120.33	114.74	109.30	105.22	103.83	104.79	105.33	103.90	100.00	100.90	106.83
39	Local and interurban passenger transit	66.56	73.20	70.39	71.19	81.90	88.00	89.51	90.40	94.33	100.00	100.26	104.78
40	Trucking and warehousing	98.11	98.19	100.02	101.88	98.95	98.43	100.14	101.29	102.78	100.00	102.00	110.27
41	Water transportation	102.44	110.35	104.05	98.70	105.06	103.03	102.04	101.16	103.11	100.00	99.16	104.23
42	Transportation by air	101.23	111.11	106.35	96.62	104.48	102.31	108.73	104.82	107.53	100.00	104.90	112.35
43	Pipelines, except natural gas	94.24	88.24	84.73	96.50	88.82	92.46	92.22	99.31	109.41	100.00	93.00	93.93
44	Transportation services	79.37	85.23	88.29	92.91	98.70	101.40	101.64	102.10	100.53	100.00	102.42	100.88
45	Communications	94.64	94.27	94.05	95.42	96.06	96.81	98.08	99.94	99.98	100.00	101.25	100.80
46	Telephone and telegraph	104.99	103.07	102.46	101.94	102.67	102.56	102.31	104.04	102.71	100.00	99.31	96.46
47	Radio and television	63.02	68.23	69.28	76.53	76.93	80.18	85.83	88.09	91.95	100.00	108.06	117.42
48	Electric, gas, and sanitary services	85.54	85.83	87.10	87.08	90.09	93.77	97.62	100.38	99.84	100.00	101.97	104.11
49	Wholesale trade	87.37	91.36	91.35	95.21	94.96	93.18	95.60	99.50	103.64	100.00	97.13	92.45
50	Retail trade	84.85	84.75	87.59	90.75	94.44	96.84	99.34	100.54	100.84	100.00	99.31	98.26
51	Finance, insurance, and real estate	70.97	73.92	77.33	80.79	84.38	87.94	90.70	93.12	96.72	100.00	103.38	104.20
52	Depository institutions	65.22	67.82	68.08	70.22	78.66	87.49	85.91	88.07	93.81	100.00	112.19	112.31
53	Nondepository institutions	79.75	84.18	86.25	88.52	92.33	92.78	94.43	98.47	102.17	100.00	92.79	89.65
54	Security and commodity brokers	99.48	98.85	100.18	100.66	101.19	107.20	107.16	102.57	101.66	100.00	94.46	85.86
55	Insurance carriers	39.75	45.22	52.76	57.58	60.86	66.71	75.90	81.68	92.50	100.00	107.88	110.39
56	Insurance agents, brokers, and service	45.84	50.28	55.92	61.36	61.49	69.70	82.12	87.89	94.57	100.00	104.94	108.93
57	Real estate	77.51	79.92	83.58	87.20	89.71	90.73	93.31	95.62	97.63	100.00	101.81	103.81
58	Nonfarm housing services	73.54	76.99	80.19	84.18	86.61	89.26	91.57	94.07	97.06	100.00	102.74	106.09
59	Other real estate	90.35	89.41	94.48	96.96	99.72	95.34	98.78	100.51	99.42	100.00	99.10	97.50
60	Holding and other investment offices	36.79	43.39	44.60	53.51	54.49	67.99	70.33	69.15	81.22	100.00	129.54	147.99
61	Services	66.89	70.75	74.29	78.68	83.09	87.64	90.81	93.62	96.82	100.00	103.55	107.80
62	Hotels and other lodging places	71.30	76.38	80.70	83.98	89.58	91.60	94.50	96.98	98.46	100.00	106.72	119.69
63	Personal services	70.58	73.59	77.58	81.96	86.16	88.96	92.19	95.36	97.25	100.00	103.72	106.17
64	Business services	77.50	79.99	81.27	84.53	87.09	90.08	91.78	92.62	96.18	100.00	103.24	107.75
65	Auto repair, services, and parking	71.39	74.34	77.89	81.24	85.37	88.93	92.47	95.45	98.83	100.00	103.76	107.86
66	Miscellaneous repair services	62.98	64.59	65.55	69.41	73.47	81.19	88.71	90.29	92.17	100.00	105.39	113.24
67	Motion pictures	71.54	74.32	79.08	83.62	88.11	89.34	89.46	92.27	94.62	100.00	102.19	103.92
68	Amusement and recreation services	70.75	74.05	77.00	81.08	85.40	87.64	90.35	93.65	96.36	100.00	103.04	106.62
69	Health services	58.78	63.56	68.75	74.29	79.77	85.37	90.20	94.46	97.49	100.00	102.77	106.10
70	Legal services	63.19	66.00	70.08	76.00	80.84	85.60	89.82	93.14	96.19	100.00	104.53	108.81
71	Educational services	65.65	69.99	74.17	78.59	83.10	87.05	89.51	92.71				

Table 8.—Gross Output by Industry, 1987–98

[Billions of dollars]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All industries	8,205.3	8,905.1	9,491.5	10,017.9	10,178.5	10,679.7	11,296.4	12,020.2	12,815.5	13,570.4	14,457.1	15,212.8
2	Private industries	7,497.7	8,149.7	8,685.8	9,154.9	9,263.8	9,728.2	10,305.8	10,992.5	11,752.2	12,470.5	13,319.8	14,032.3
3	Agriculture, forestry, and fishing	182.6	193.0	213.7	224.8	220.7	231.0	233.4	253.2	250.3	278.4	286.8	279.9
4	Farms	152.0	158.5	177.2	185.3	180.4	187.9	187.4	203.3	197.9	222.6	226.2	214.2
5	Agricultural services, forestry, and fishing	30.7	34.5	36.5	39.5	40.3	43.1	45.9	49.9	52.4	55.8	60.6	65.6
6	Mining	149.9	147.9	157.0	177.4	165.2	159.6	159.7	156.3	156.1	186.6	195.8	165.9
7	Metal mining	7.1	9.7	11.5	11.6	11.2	11.4	10.7	12.1	13.3	12.6	12.7	11.0
8	Coal mining	27.2	27.3	28.2	30.0	29.1	28.8	25.8	27.7	26.7	27.1	27.3	27.3
9	Oil and gas extraction	102.4	96.9	103.0	121.1	111.5	105.3	109.1	100.9	99.7	129.8	137.7	109.2
10	Nonmetallic minerals, except fuels	13.3	14.0	14.3	14.7	13.5	14.1	14.1	15.5	16.4	17.0	18.2	18.5
11	Construction	413.2	428.2	439.4	450.5	413.2	431.7	455.8	491.7	514.1	554.5	597.4	640.7
12	Manufacturing	2,451.3	2,667.3	2,812.5	2,873.6	2,830.7	2,956.3	3,082.9	3,301.7	3,547.5	3,661.1	3,877.8	3,999.0
13	Durable goods	1,286.5	1,409.6	1,466.4	1,466.3	1,421.0	1,508.2	1,604.1	1,761.9	1,899.5	1,973.7	2,127.7	2,245.4
14	Lumber and wood products	70.6	73.0	74.7	74.7	70.1	81.3	94.0	102.8	104.6	105.6	110.6	110.9
15	Furniture and fixtures	37.1	38.7	40.7	40.9	39.0	42.7	45.8	49.2	52.4	54.5	60.0	65.0
16	Stone, clay, and glass products	60.6	62.0	62.6	62.7	58.6	60.9	63.9	69.4	74.4	80.6	88.0	94.0
17	Primary metal industries	120.6	149.9	155.9	148.1	135.6	138.1	143.1	160.7	180.0	178.7	188.1	181.1
18	Fabricated metal products	145.0	157.3	161.4	162.1	156.6	163.4	171.2	187.1	200.7	210.0	222.2	235.9
19	Industrial machinery and equipment	211.5	238.2	251.9	252.0	241.2	251.7	271.5	305.9	347.9	371.2	399.4	431.0
20	Electronic and other electric equipment	168.0	182.3	190.6	191.2	192.9	210.7	229.1	262.4	296.8	313.8	344.3	366.9
21	Motor vehicles and equipment	204.6	221.3	230.7	215.0	205.9	235.5	265.2	312.3	324.9	326.1	343.1	357.6
22	Other transportation equipment	128.9	136.1	140.8	153.9	151.4	151.9	143.8	132.8	127.7	136.2	156.4	179.6
23	Instruments and related products	106.4	114.4	119.7	126.5	130.6	132.3	134.0	135.1	143.7	147.9	159.7	165.8
24	Miscellaneous manufacturing industries	33.2	36.5	37.4	39.2	39.0	39.6	42.6	44.2	46.6	49.1	55.8	57.7
25	Nondurable goods	1,164.8	1,257.7	1,346.0	1,407.3	1,409.7	1,448.1	1,478.8	1,539.8	1,648.0	1,687.4	1,750.1	1,753.6
26	Food and kindred products	317.7	341.6	369.0	380.2	388.4	398.3	412.4	420.8	437.4	450.7	460.3	478.0
27	Tobacco products	24.9	27.8	29.7	33.5	36.3	40.0	33.7	35.3	38.3	39.6	43.6	46.9
28	Textile mill products	62.5	64.4	66.8	65.0	65.0	70.5	74.1	77.7	79.4	79.6	83.7	80.2
29	Apparel and other textile products	63.4	65.0	64.0	65.5	67.0	70.4	72.4	75.6	75.9	75.0	77.0	77.9
30	Paper and allied products	108.1	122.0	131.3	131.6	129.5	131.9	132.2	142.0	172.8	159.3	160.6	163.9
31	Printing and publishing	139.1	147.8	155.0	162.4	162.9	168.5	174.1	178.7	189.9	197.3	206.9	217.1
32	Chemicals and allied products	225.1	256.1	277.6	286.3	291.5	299.6	307.2	325.8	352.8	358.6	380.4	382.0
33	Petroleum and coal products	129.3	129.1	143.1	169.3	156.4	147.3	142.5	141.2	149.0	170.6	174.5	144.0
34	Rubber and miscellaneous plastics products	85.8	94.8	100.4	104.4	104.5	112.0	120.7	133.2	143.6	147.8	154.0	155.4
35	Leather and leather products	8.8	9.4	9.3	9.0	8.3	9.5	9.6	9.4	9.0	9.0	9.2	8.2
36	Transportation and public utilities	720.2	774.0	818.0	856.7	884.9	929.0	980.2	1,033.2	1,087.6	1,162.9	1,231.1	1,296.8
37	Transportation	286.6	317.3	335.9	361.1	363.0	381.1	400.3	428.0	453.8	477.9	508.6	541.2
38	Railroad transportation	31.2	33.0	33.7	34.3	34.3	35.3	35.9	38.3	40.1	40.7	41.6	42.3
39	Local and interurban passenger transit	15.5	16.6	17.7	19.0	19.8	20.3	20.9	21.7	22.9	24.2	25.2	25.8
40	Trucking and warehousing	114.7	128.7	139.2	153.1	154.2	166.7	175.8	192.3	200.6	213.8	227.6	245.9
41	Water transportation	24.2	26.5	27.1	28.3	29.2	29.3	30.4	31.2	34.1	36.4	37.1	38.5
42	Transportation by air	75.6	84.5	88.0	91.0	91.8	93.8	100.1	104.1	112.2	117.3	128.1	136.2
43	Pipelines, except natural gas	8.1	7.7	7.2	9.6	7.4	7.7	7.5	7.9	8.3	7.8	7.7	7.4
44	Transportation services	17.4	20.2	22.9	25.8	26.3	28.1	29.7	32.6	35.7	37.7	41.4	45.0
45	Communications	199.9	209.5	217.4	226.7	236.5	250.3	266.3	287.4	314.6	348.7	377.5	420.0
46	Telephone and telegraph	157.8	162.9	168.2	174.2	182.8	192.4	205.7	223.5	243.9	270.0	292.0	324.9
47	Radio and television	42.1	46.6	49.2	52.6	53.7	57.9	60.6	63.9	70.7	78.8	85.4	95.0
48	Electric, gas, and sanitary services	233.7	247.2	264.7	268.9	285.5	297.6	313.6	317.8	319.2	336.2	345.0	335.6
49	Wholesale trade	458.7	506.4	533.0	564.8	570.2	593.6	639.8	701.1	768.4	789.8	826.6	854.3
50	Retail trade	674.2	712.6	755.4	793.0	807.2	846.6	906.9	974.8	1,021.7	1,070.9	1,120.1	1,180.3
51	Finance, insurance, and real estate	1,229.9	1,335.7	1,427.5	1,536.2	1,618.7	1,679.3	1,829.7	1,927.3	2,075.5	2,247.1	2,472.4	2,660.1
52	Depository institutions	203.3	212.2	222.0	232.5	253.4	272.7	286.9	295.4	320.8	342.7	383.6	414.1
53	Nondepository institutions	36.0	40.8	43.7	47.4	48.1	47.8	57.9	71.2	87.5	108.4	131.1	141.5
54	Security and commodity brokers	61.9	57.7	66.8	62.9	77.3	86.1	104.9	111.3	138.5	169.3	206.4	253.9
55	Insurance carriers	131.4	155.8	165.3	180.7	201.0	178.4	230.4	231.1	254.6	261.5	299.5	288.7
56	Insurance agents, brokers, and service	48.3	50.0	53.0	60.1	59.2	59.7	63.1	69.3	72.9	74.0	79.5	87.8
57	Real estate	718.4	801.1	862.2	934.0	962.0	1,012.9	1,059.3	1,126.8	1,176.0	1,268.2	1,342.6	1,427.4
58	Nonfarm housing services	459.5	494.3	528.1	566.4	596.2	619.7	644.7	681.0	717.7	747.8	783.0	827.6
59	Other real estate	258.9	306.7	334.0	367.6	365.8	393.3	414.6	445.8	458.2	520.4	559.6	599.8
60	Holding and other investment offices	30.6	18.1	14.6	18.5	17.8	21.8	27.2	22.1	25.3	23.1	29.8	46.8
61	Services	1,217.6	1,384.5	1,529.3	1,678.0	1,752.9	1,901.1	2,017.4	2,153.3	2,331.2	2,519.3	2,711.7	2,955.5
62	Hotels and other lodging places	62.9	69.1	72.7	76.6	78.0	84.9	88.8	95.1	100.5	106.5	112.6	120.4
63	Personal services	47.8	54.5	59.8	62.4	62.0	68.7	72.5	76.6	81.7	84.6	89.6	96.0
64	Business services	195.2	232.0	262.9	294.9	303.7	328.3	358.0	397.2	449.1	510.6	577.0	673.8
65	Auto repair, services, and parking	68.7	77.4	83.1	86.1	83.4	91.3	98.2	107.2	115.8	124.3	130.1	134.6
66	Miscellaneous repair services	26.5	29.5	31.7	34.5	33.8	36.6	37.7	41.0	45.1	46.4	49.8	54.4
67	Motion pictures	28.9	32.4	36.2	39.2	41.2	43.0	46.9	50.4	53.9	56.8	59.2	62.5
68	Amusement and recreation services	42.9	49.2	54.2	62.2	65.4	74.1	82.2	89.2	100.3	110.7	120.3	126.8
69	Health services	337.5	379.8	418.4	468.0	513.3	563.7	594.1	622.0	656.7	688.0	720.5	755.6
70	Legal services	76.5	86.9	95.1	104.5	107.5	116.8	120.7	123.4	125.0	134.1	143.3	152.8
71	Educational services	54.8	60.5	66.4	71.9	76.6	81.4	85.8	91.2	97.1	103.8	109.4	115.1
72	Social services	43.7	51.8	57.6	64.4	66.8	70.4	76.9	83.3	92.1	98.7	108.7	119.3
73	Membership organizations	53.1	57.7	61.4	66.2	69.8	74.8	78.5	84.3	88.7	96.2	97.7	1

Table 9.—Intermediate Inputs by Industry, 1987–98

[Billions of dollars]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All industries	3,466.2	3,754.6	4,018.7	4,245.2	4,211.9	4,404.5	4,717.8	5,024.4	5,441.5	5,790.1	6,153.2	6,405.3
2	Private industries	3,419.6	3,705.6	3,966.7	4,188.8	4,154.3	4,347.3	4,652.0	4,954.3	5,367.7	5,710.5	6,075.2	6,325.0
3	Agriculture, forestry, and fishing	93.7	104.0	111.7	116.5	117.8	119.4	125.0	134.7	140.4	147.9	157.1	154.7
4	Farms	86.9	94.7	101.0	105.7	107.2	107.4	113.9	119.8	124.7	130.4	138.1	134.1
5	Agricultural services, forestry, and fishing	6.8	9.3	10.7	10.9	10.6	12.0	11.2	15.0	15.8	17.5	19.0	20.6
6	Mining	57.7	48.7	59.9	65.5	68.5	72.0	71.3	66.1	60.4	73.6	74.8	60.0
7	Metal mining	3.4	4.7	6.3	6.5	5.5	5.8	5.8	6.6	6.8	6.8	6.9	5.9
8	Coal mining	14.2	14.7	16.3	18.2	17.6	16.8	15.3	16.4	16.0	16.0	16.2	15.7
9	Oil and gas extraction	35.0	23.3	30.9	34.0	39.3	43.0	43.4	36.5	30.4	43.7	44.8	32.2
10	Nonmetallic minerals, except fuels	5.2	6.1	6.5	6.9	6.0	6.3	6.9	6.6	7.2	7.1	6.8	6.2
11	Construction	194.0	191.0	193.6	201.8	180.5	197.3	206.8	216.4	223.8	238.0	254.4	267.4
12	Manufacturing	1,562.7	1,687.4	1,794.8	1,833.0	1,787.2	1,874.3	1,951.5	2,078.4	2,258.4	2,345.0	2,500.6	2,566.2
13	Durable goods	769.8	843.3	883.7	879.8	845.4	914.3	971.3	1,067.8	1,169.7	1,225.2	1,329.0	1,402.8
14	Lumber and wood products	38.5	40.0	40.9	42.6	39.7	49.0	58.3	63.0	62.3	65.6	68.7	67.0
15	Furniture and fixtures	22.5	23.6	24.8	25.3	23.8	26.2	27.7	30.3	32.9	33.8	37.1	39.7
16	Stone, clay, and glass products	37.3	38.2	37.4	37.3	34.8	34.7	37.4	39.0	42.0	47.4	50.1	51.9
17	Primary metal industries	86.1	106.8	110.6	104.9	95.7	98.5	100.1	113.1	127.0	127.9	136.3	126.3
18	Fabricated metal products	82.4	89.9	92.9	92.7	89.3	93.9	97.8	103.9	113.5	116.8	122.6	131.2
19	Industrial machinery and equipment	116.4	127.9	135.0	133.8	132.1	138.0	157.8	184.8	215.1	234.9	255.6	277.7
20	Electronic and other electric equipment	80.4	85.6	85.6	85.5	82.2	103.0	108.1	123.1	149.9	160.6	178.2	198.6
21	Motor vehicles and equipment	146.4	160.6	178.0	167.6	160.4	176.7	187.2	217.1	226.7	233.9	243.6	252.6
22	Other transportation equipment	73.4	82.2	84.0	93.5	89.0	93.9	89.6	83.1	80.0	84.8	100.8	119.9
23	Instruments and related products	69.0	69.8	76.1	77.2	79.1	80.4	85.6	88.3	96.5	94.2	105.7	106.8
24	Miscellaneous manufacturing industries	17.4	18.5	18.2	19.3	19.3	20.0	21.7	22.0	23.9	25.3	30.3	31.2
25	Non-durable goods	792.9	844.1	911.1	953.2	941.7	960.1	980.2	1,010.7	1,088.7	1,119.8	1,171.6	1,163.5
26	Food and kindred products	238.6	257.0	280.0	283.8	284.7	292.4	304.8	310.6	316.3	332.0	341.0	356.0
27	Tobacco products	14.5	16.7	18.4	21.5	23.5	26.1	21.4	22.1	23.2	24.8	27.5	29.1
28	Textile mill products	42.3	43.7	45.8	43.0	42.6	44.8	48.4	52.1	54.6	54.2	58.0	54.6
29	Apparel and other textile products	40.4	40.8	38.6	40.1	41.0	43.0	44.7	47.1	48.7	48.1	50.9	52.4
30	Paper and allied products	70.3	78.2	85.8	86.6	84.8	86.3	85.2	91.8	113.8	103.4	107.0	109.0
31	Printing and publishing	77.1	81.3	83.5	89.4	87.9	89.6	89.6	95.3	109.1	109.0	116.7	120.9
32	Chemicals and allied products	141.3	160.6	174.3	176.4	177.6	180.5	184.5	187.1	202.0	204.9	221.6	223.3
33	Petroleum and coal products	107.2	96.8	113.3	137.6	127.5	119.1	111.5	111.9	120.0	140.4	143.0	119.9
34	Rubber and miscellaneous plastics products	56.3	64.1	66.7	70.5	68.7	73.6	79.1	88.3	97.4	98.2	101.3	100.5
35	Leather and leather products	4.9	5.0	4.7	4.3	3.4	4.5	4.9	4.4	3.7	4.8	4.6	3.8
36	Transportation and public utilities	294.1	325.0	349.4	365.8	366.6	390.5	406.9	421.8	445.0	496.5	517.9	537.6
37	Transportation	127.8	148.0	163.6	183.7	176.9	187.7	194.3	204.8	220.4	234.5	245.8	257.3
38	Railroad transportation	9.3	10.0	13.8	14.5	12.3	13.7	14.0	15.0	16.5	17.3	18.3	18.1
39	Local and interurban passenger transit	6.9	7.7	8.4	10.0	9.6	9.3	9.6	10.1	10.4	10.8	10.4	9.8
40	Trucking and warehousing	50.5	64.3	71.9	83.6	83.3	92.1	96.6	105.9	111.6	121.7	128.2	139.4
41	Water transportation	15.8	17.4	17.5	18.3	18.2	18.7	19.6	19.7	22.4	24.2	23.8	24.6
42	Transportation by air	41.3	41.8	44.1	45.7	44.8	43.5	43.7	41.7	44.5	46.5	48.8	48.5
43	Pipelines, except natural gas	1.0	2.0	1.7	4.1	1.9	2.2	1.9	2.4	2.8	2.1	1.8	0.9
44	Transportation services	3.0	4.8	6.2	7.6	6.8	8.1	8.9	10.0	12.2	12.0	14.5	16.0
45	Communications	74.4	76.7	80.0	78.6	80.8	86.4	87.7	96.7	112.3	134.1	134.3	161.3
46	Telephone and telegraph	49.8	51.3	55.4	54.8	58.8	63.7	66.7	75.5	92.3	106.1	102.6	123.3
47	Radio and television	24.6	25.5	24.6	23.8	22.0	22.8	21.0	21.2	20.0	28.0	31.8	38.0
48	Electric, gas, and sanitary services	91.9	100.3	105.8	103.5	109.0	116.4	124.9	120.3	112.3	128.0	137.8	119.1
49	Wholesale trade	149.8	159.9	168.2	188.6	174.6	179.0	207.3	221.9	267.7	260.2	254.2	240.5
50	Retail trade	239.7	251.0	262.7	285.2	283.4	294.8	328.9	354.3	374.9	383.8	385.9	398.5
51	Finance, insurance, and real estate	400.2	442.0	473.0	525.9	546.6	538.4	624.4	672.4	728.2	810.4	910.9	985.9
52	Depository institutions	59.4	64.6	64.8	61.2	59.5	67.3	86.0	94.7	93.4	101.7	112.4	124.4
53	Nondepository institutions	18.2	20.6	19.9	24.1	24.8	20.6	25.3	41.8	53.4	69.2	79.5	63.0
54	Security and commodity brokers	20.6	15.6	21.5	20.6	36.8	31.6	37.3	33.4	60.7	61.2	89.1	136.8
55	Insurance carriers	87.8	98.9	104.8	116.1	117.8	96.2	130.6	126.8	134.5	138.1	158.1	145.6
56	Insurance agents, brokers, and service	17.9	16.2	18.6	22.5	21.2	20.3	21.3	23.9	25.6	25.1	28.3	34.1
57	Real estate	187.0	214.8	231.5	268.3	272.8	287.7	307.7	335.4	343.4	396.6	423.4	459.5
58	Nonfarm housing services	67.7	70.1	71.4	78.1	80.7	76.2	86.6	87.1	88.8	93.3	102.8	115.7
59	Other real estate	119.4	144.8	160.1	190.2	192.1	211.5	221.1	248.3	254.6	303.3	320.5	343.7
60	Holding and other investment offices	9.3	11.2	11.9	13.0	13.6	14.7	16.2	16.2	17.2	18.4	20.1	22.6
61	Services	427.7	496.6	553.3	606.4	629.2	681.7	729.8	788.3	868.8	955.0	1,019.3	1,114.2
62	Hotels and other lodging places	25.8	28.5	28.7	30.2	29.8	34.5	35.7	38.5	38.8	40.2	42.0	44.1
63	Personal services	16.8	18.6	23.0	24.4	23.2	27.8	28.2	31.0	35.0	37.1	39.5	43.0
64	Business services	50.2	65.1	79.2	90.9	98.4	98.9	110.4	124.0	147.1	168.2	181.5	219.7
65	Auto repair, services, and parking	27.9	32.1	36.5	35.8	32.0	39.2	43.5	47.2	50.7	55.9	58.1	57.0
66	Miscellaneous repair services	13.0	14.1	15.1	16.8	16.8	19.0	18.5	21.7	24.4	24.6	27.5	29.8
67	Motion pictures	15.2	18.1	18.3	21.5	23.3	24.8	26.0	30.4	31.5	32.1	34.0	35.3
68	Amusement and recreation services	16.7	20.4	22.2	25.7	26.0	28.9	36.7	40.0	46.8	52.4	55.4	56.3
69	Health services	106.9	126.2	137.7	153.6	168.0	185.9	199.6	208.0	223.6	228.9	244.3	260.1
70	Legal services	14.7	16.0	19.2	21.8	21.9	24.1	27.7	28.8	23.8	36.2	34.8	36.3
71	Educational services	23.5	26.3	29.3	32.3	32.9	34.9	36.6	38.6	41.4	45.8	48.3	48.7
72	Social services	22.7	28.4	30.9	34.3	33.2	33.1	36.0	39.1	44.7	49.0	55.5	61.4
73	Membership organizations	26.2	27.4	28.1	30.4	31.4	34.9	35.1	38.2	42.0	47.0	46.5	50.3
74	Other services	68.1	75.5	85.3	88.6	92.3	95.8	95.8	102.7	118.8	137.6	151.9	172.1
75	Private households	0	0	0	0	0	0	0	0	0	0	0	0
76	Government	46.6	48.9	52.1	56.4	57.6	57.1	65.8	70.0	73.8	79.5	78.0	80.3
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Table 10.—Chain-Type Quantity Indexes for Gross Output by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All Industries	76.61	80.26	82.35	83.89	83.34	85.75	88.62	92.46	95.98	100.00	105.32	111.21
2	Private industries	75.42	79.18	81.25	82.72	82.09	84.69	87.76	91.88	95.67	100.00	105.70	111.99
3	Agriculture, forestry, and fishing	82.85	80.80	85.42	89.18	90.37	94.43	92.54	100.30	97.69	100.00	106.45	108.31
4	Farms	85.09	81.71	86.62	90.20	91.29	95.98	93.59	102.01	97.90	100.00	106.62	106.89
5	Agricultural services, forestry, and fishing	73.76	77.47	80.83	85.44	87.09	88.54	88.61	93.90	96.91	100.00	105.82	113.33
6	Mining	91.84	95.36	94.07	96.69	96.72	95.58	95.99	97.76	97.11	100.00	103.26	102.27
7	Metal mining	59.07	71.71	82.74	88.54	92.49	98.16	96.80	99.88	98.16	100.00	105.93	105.40
8	Coal mining	81.13	85.03	88.89	94.51	92.89	93.88	88.96	97.62	96.89	100.00	102.33	105.42
9	Oil and gas extraction	99.40	101.77	97.11	98.94	100.13	97.00	98.91	98.00	96.98	100.00	103.10	100.41
10	Nonmetallic minerals, except fuels	91.10	93.60	92.57	92.11	83.92	87.27	88.61	94.91	97.48	100.00	104.06	108.38
11	Construction	95.44	95.65	95.12	94.70	85.63	88.71	90.61	94.49	94.99	100.00	104.45	109.05
12	Manufacturing	78.85	82.47	83.41	83.05	81.35	84.43	87.20	92.27	96.71	100.00	106.92	113.80
13	Durable goods	71.21	75.54	76.23	75.51	72.52	76.45	80.45	87.26	93.94	100.00	109.73	120.31
14	Lumber and wood products	99.51	98.26	94.99	93.60	86.31	91.68	91.59	96.29	98.35	100.00	101.25	103.17
15	Furniture and fixtures	87.30	87.01	88.13	86.16	80.52	87.12	91.43	95.05	98.41	100.00	108.41	116.29
16	Stone, clay, and glass products	89.84	91.00	90.05	88.84	81.77	84.64	86.78	90.94	93.74	100.00	107.74	113.23
17	Primary metal industries	82.20	89.58	88.76	86.67	83.01	85.87	90.21	95.32	96.68	100.00	104.51	104.97
18	Fabricated metal products	84.84	87.80	86.07	84.41	80.49	83.73	87.06	93.57	96.67	100.00	104.61	110.05
19	Industrial machinery and equipment	50.90	57.10	59.43	59.29	56.79	60.51	66.80	76.31	88.92	100.00	114.16	133.27
20	Electronic and other electric equipment	41.03	43.94	45.62	46.59	47.47	53.14	58.74	69.18	85.72	100.00	117.55	141.09
21	Motor vehicles and equipment	75.50	80.28	81.42	74.71	69.29	77.18	84.83	97.50	100.33	100.00	106.08	111.70
22	Other transportation equipment	121.48	126.03	125.65	132.16	125.10	121.21	112.30	101.54	95.37	100.00	113.67	129.82
23	Instruments and related products	85.32	89.50	90.29	92.74	93.68	93.25	93.08	92.89	97.72	100.00	107.42	111.15
24	Miscellaneous manufacturing industries	83.96	89.11	88.18	89.65	87.20	86.66	91.50	93.42	96.30	100.00	112.58	115.61
25	Nondurable goods	88.53	91.14	92.43	92.55	92.49	94.47	95.63	98.46	100.04	100.00	103.67	106.31
26	Food and kindred products	87.34	90.01	92.62	92.47	94.30	96.37	98.17	99.03	101.86	100.00	101.80	108.27
27	Tobacco products	97.42	99.74	95.90	97.10	92.92	93.19	80.36	93.71	98.72	100.00	105.42	100.14
28	Textile mill products	90.67	89.64	91.02	86.71	86.00	92.56	97.45	101.92	100.95	100.00	105.44	101.36
29	Apparel and other textile products	98.84	98.30	94.39	94.18	94.14	97.21	98.97	103.04	102.78	100.00	101.80	102.06
30	Paper and allied products	88.38	91.37	92.81	92.93	93.22	95.55	97.04	100.95	101.73	100.00	104.79	104.83
31	Printing and publishing	100.74	101.89	101.48	102.11	98.58	99.05	99.20	99.22	99.74	100.00	102.94	105.23
32	Chemicals and allied products	85.47	89.57	91.92	93.47	92.60	94.26	94.47	97.35	98.67	100.00	105.22	106.23
33	Petroleum and coal products	93.73	97.12	96.43	94.51	96.44	94.05	94.23	96.45	98.39	100.00	104.26	111.64
34	Rubber and miscellaneous plastics products	67.35	70.90	73.78	76.15	75.57	81.24	86.74	94.43	96.82	100.00	104.44	105.90
35	Leather and leather products	123.70	121.27	116.64	109.10	99.57	112.71	111.90	106.95	98.78	100.00	100.15	90.05
36	Transportation and public utilities	70.10	74.54	77.43	79.28	80.99	84.15	86.83	90.64	94.80	100.00	104.25	110.11
37	Transportation	67.53	73.04	75.89	79.38	79.12	83.06	85.64	91.21	94.95	100.00	104.87	110.16
38	Railroad transportation	74.42	79.01	81.58	83.33	85.04	88.12	88.90	93.97	98.44	100.00	101.42	102.00
39	Local and interurban passenger transit	88.38	88.56	94.12	96.64	94.43	93.23	94.94	97.09	99.28	100.00	104.41	107.54
40	Trucking and warehousing	60.64	67.90	70.84	74.54	76.33	82.58	85.76	92.49	94.63	100.00	105.22	111.77
41	Water transportation	75.87	80.42	81.46	83.66	83.86	83.95	86.26	88.15	94.14	100.00	101.05	103.64
42	Transportation by air	70.56	74.93	77.38	79.96	77.78	80.62	82.97	88.41	93.31	100.00	105.97	111.00
43	Pipelines, except natural gas	113.63	114.05	108.57	131.70	106.17	106.53	103.78	102.47	99.86	100.00	104.19	99.80
44	Transportation services	58.68	64.03	70.18	75.43	73.11	76.07	79.91	86.84	95.26	100.00	107.19	117.05
45	Communications	62.77	65.46	67.25	68.97	71.06	74.60	78.27	82.95	90.36	100.00	107.19	119.91
46	Telephone and telegraph	58.43	60.89	62.69	64.97	67.56	71.03	75.73	80.96	88.77	100.00	108.65	123.78
47	Radio and television	80.10	83.71	85.37	84.53	84.42	88.25	87.69	90.23	96.06	100.00	102.32	107.56
48	Electric, gas, and sanitary services	81.65	86.43	90.57	90.07	94.36	95.91	97.67	98.00	99.27	100.00	100.34	99.93
49	Wholesale trade	67.62	71.67	74.61	76.13	76.52	80.47	84.81	89.96	95.17	100.00	106.64	114.55
50	Retail trade	75.96	79.52	81.32	82.39	81.15	83.55	87.41	92.49	95.66	100.00	104.32	110.42
51	Finance, insurance, and real estate	76.09	79.39	81.20	83.86	84.99	84.97	89.58	91.88	95.32	100.00	106.17	112.43
52	Depository institutions	87.60	88.10	91.10	92.52	91.87	90.62	95.86	96.12	98.72	100.00	102.41	109.68
53	Nondepository institutions	43.65	47.29	49.33	52.14	50.91	49.68	58.69	69.53	82.05	100.00	121.41	130.37
54	Security and commodity brokers	39.30	36.44	41.31	38.55	46.84	50.00	60.35	65.49	81.36	100.00	125.48	161.36
55	Insurance carriers	97.06	105.75	101.46	103.60	111.40	91.69	106.82	101.43	102.82	100.00	108.65	102.25
56	Insurance agents, brokers, and service	118.64	114.20	111.32	117.56	114.04	105.35	99.35	103.46	102.70	100.00	103.41	111.11
57	Real estate	73.09	79.02	81.56	84.97	84.91	88.29	89.87	93.39	95.12	100.00	102.84	106.64
58	Nonfarm housing services	82.91	85.40	87.63	89.78	91.65	92.75	94.04	96.72	98.88	100.00	101.77	104.31
59	Other real estate	59.77	70.13	73.05	78.12	75.47	81.96	83.95	88.63	89.73	100.00	104.38	109.99
60	Holding and other investment offices	219.35	117.83	91.95	109.09	102.85	114.97	137.19	109.69	116.69	100.00	118.15	171.67
61	Services	67.59	73.19	77.34	80.86	80.81	84.31	86.92	90.40	94.86	100.00	104.84	111.44
62	Hotels and other lodging places	79.89	83.05	83.33	84.64	82.18	87.63	89.07	93.05	96.31	100.00	100.58	99.35
63	Personal services	76.91	84.45	88.28	87.87	83.87	90.61	92.71	95.14	99.18	100.00	102.71	108.08
64	Business services	46.46	53.55	59.62	64.73	65.04	68.81	74.03	81.59	89.78	100.00	111.01	127.13
65	Auto repair, services, and parking	73.70	80.15	82.24	81.65	76.29	81.28	84.80	90.25	94.56	100.00	102.10	103.67
66	Miscellaneous repair services	75.78	82.13	86.56	91.15	86.62	89.36	87.36	93.59	101.17	100.00	104.52	111.67
67	Motion pictures	70.01	75.52	79.53	81.79	82.08	84.69	91.48	95.48	99.00	100.00	101.93	105.77
68	Amusement and recreation services	52.94	58.31	61.61	67.55	67.97	75.35	81.51	85.82	93.58	100.00	105.82	108.98
69	Health services	76.11	80.25	82.79	86.96	90.01	93.89	94.70	95.46	97.55	100.00	102.37	104.98
70	Legal services	86.37	94.14	97.45	99.67	96.83	100.28	99.38	98.27	96.42	100.00	102.65	105.82
71	Educational services												

Table 11.—Chain-Type Price Indexes for Gross Output by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All industries	78.93	81.76	84.94	88.00	90.00	91.78	93.93	95.80	98.40	100.00	101.15	100.81
2	Private industries	79.72	82.53	85.73	88.75	90.49	92.12	94.17	95.94	98.51	100.00	101.05	100.48
3	Agriculture, forestry, and fishing	79.18	85.81	89.89	90.55	87.73	87.90	90.59	90.68	92.03	100.00	96.78	92.82
4	Farms	80.23	87.14	91.92	92.27	88.78	87.95	89.97	89.55	90.79	100.00	95.31	90.04
5	Agricultural services, forestry, and fishing	74.49	79.90	80.95	82.93	82.99	87.36	92.92	95.22	96.96	100.00	102.66	103.79
6	Mining	87.47	83.12	89.45	98.32	91.53	89.49	89.17	85.71	86.13	100.00	101.63	86.94
7	Metal mining	94.95	107.39	110.08	104.30	95.81	92.50	87.52	96.53	107.59	100.00	94.82	82.61
8	Coal mining	123.32	118.37	117.03	116.83	115.27	112.97	106.83	104.62	101.63	100.00	98.36	95.23
9	Oil and gas extraction	79.37	73.32	81.66	94.24	85.74	83.63	84.96	79.34	79.16	100.00	102.85	83.74
10	Nonmetallic minerals, except fuels	85.45	88.00	90.93	93.85	94.48	94.63	93.79	96.14	98.58	100.00	102.69	100.43
11	Construction	78.09	80.74	83.32	85.81	87.03	87.78	90.72	93.86	97.61	100.00	103.16	105.96
12	Manufacturing	84.92	88.35	92.10	94.51	95.05	95.64	96.57	97.74	100.19	100.00	99.06	95.98
13	Durable goods	91.54	94.54	97.47	98.40	99.28	99.96	101.03	102.31	102.45	100.00	98.25	94.56
14	Lumber and wood products	67.21	70.39	74.46	75.63	76.90	83.97	97.27	101.14	100.75	100.00	103.48	101.81
15	Furniture and fixtures	77.99	81.55	84.65	87.16	88.91	89.98	91.79	94.95	97.66	100.00	101.45	102.47
16	Stone, clay, and glass products	83.68	84.59	86.27	87.52	88.95	89.33	91.32	94.65	98.52	100.00	101.37	102.99
17	Primary metal industries	82.12	93.64	98.32	95.63	91.45	90.00	88.78	94.35	104.18	100.00	100.73	96.54
18	Fabricated metal products	81.40	85.30	89.31	91.47	92.66	92.96	93.62	95.23	98.85	100.00	101.16	102.06
19	Industrial machinery and equipment	111.98	112.42	114.19	114.52	114.40	112.10	109.50	107.98	105.41	100.00	94.26	87.13
20	Electronic and other electric equipment	130.51	132.16	133.15	130.80	129.50	126.37	124.25	120.86	110.32	100.00	93.32	82.86
21	Motor vehicles and equipment	83.10	84.52	86.88	88.24	91.12	93.56	95.88	98.24	99.30	100.00	99.20	98.18
22	Other transportation equipment	77.91	79.26	82.28	85.50	88.87	92.03	94.03	95.98	98.27	100.00	101.04	101.57
23	Instruments and related products	84.27	86.43	89.60	92.19	94.23	95.88	97.29	98.33	99.39	100.00	100.53	100.81
24	Miscellaneous manufacturing industries	80.43	83.33	86.44	88.99	91.17	93.10	94.82	96.39	98.48	100.00	100.97	101.69
25	Nondurable goods	77.97	81.78	86.30	90.11	90.33	90.84	91.64	92.68	97.63	100.00	100.05	97.76
26	Food and kindred products	80.73	84.22	88.40	91.23	91.40	91.71	93.21	94.30	95.29	100.00	100.34	97.97
27	Tobacco products	64.43	70.30	78.16	87.01	98.48	108.28	105.74	95.14	97.95	100.00	104.37	118.28
28	Textile mill products	86.62	90.25	92.22	94.19	94.98	95.70	95.54	95.81	98.82	100.00	99.73	99.43
29	Apparel and other textile products	85.47	88.06	90.29	92.72	94.87	96.55	97.43	97.79	98.45	100.00	100.80	101.64
30	Paper and allied products	76.78	83.81	88.81	88.94	87.22	86.70	85.50	88.29	106.63	100.00	96.24	98.18
31	Printing and publishing	70.01	73.54	77.42	80.63	83.75	86.24	88.99	91.31	96.51	100.00	101.87	104.61
32	Chemicals and allied products	73.46	79.73	84.21	85.43	87.79	88.65	90.68	93.35	99.71	100.00	100.82	100.28
33	Petroleum and coal products	80.83	77.91	87.02	105.01	95.04	91.83	88.63	85.82	88.76	100.00	98.10	75.60
34	Rubber and miscellaneous plastics products	86.21	90.42	92.06	92.75	93.60	93.28	94.17	95.43	100.31	100.00	99.77	99.29
35	Leather and leather products	79.42	85.78	88.75	92.23	92.45	93.27	95.09	97.68	101.23	100.00	101.92	101.02
36	Transportation and public utilities	88.36	89.30	90.86	92.93	93.96	94.94	97.08	98.03	98.66	100.00	101.55	101.28
37	Transportation	88.80	90.89	92.61	95.19	96.00	96.00	97.80	98.20	100.00	100.00	101.49	102.80
38	Railroad transportation	102.85	102.73	101.40	101.08	98.93	98.30	99.26	100.13	100.07	100.00	100.66	101.91
39	Local and interurban passenger transit	72.44	77.35	77.75	81.38	86.77	89.83	90.96	92.10	95.06	100.00	99.71	99.00
40	Trucking and warehousing	88.46	88.69	91.94	96.07	94.50	94.41	95.90	97.25	99.18	100.00	101.20	102.92
41	Water transportation	87.83	90.51	91.56	93.09	95.77	95.97	96.74	97.29	99.48	100.00	100.82	102.18
42	Transportation by air	91.32	96.19	96.98	97.05	100.65	99.23	102.86	100.45	102.50	100.00	103.04	104.64
43	Pipelines, except natural gas	90.96	86.57	84.67	93.24	89.05	92.04	92.35	98.04	105.59	100.00	94.84	95.35
44	Transportation services	78.41	83.49	86.47	90.54	95.30	97.80	98.53	99.49	99.47	100.00	102.32	101.88
45	Communications	91.32	91.78	92.72	94.26	95.43	96.21	97.55	99.34	99.83	100.00	100.98	100.43
46	Telephone and telegraph	100.05	99.10	99.38	99.29	100.22	100.32	100.58	102.24	101.75	100.00	99.55	97.23
47	Radio and television	66.70	70.66	73.22	78.94	80.74	83.38	87.79	89.97	93.47	100.00	106.03	112.17
48	Electric, gas, and sanitary services	85.14	85.08	86.94	88.80	89.98	92.29	95.51	96.45	95.64	100.00	102.27	99.89
49	Wholesale trade	85.88	89.46	90.45	93.92	94.35	93.39	95.52	98.68	102.23	100.00	98.14	94.43
50	Retail trade	82.89	83.68	86.74	89.88	92.88	94.62	96.89	98.43	99.73	100.00	100.26	99.83
51	Finance, insurance, and real estate	71.94	74.87	78.24	81.52	84.76	87.95	90.90	93.35	96.90	100.00	103.64	105.29
52	Depository institutions	67.72	70.28	71.12	73.34	80.50	87.80	87.34	89.70	94.82	100.00	109.32	110.17
53	Nondepository institutions	76.15	79.55	81.65	83.89	87.06	88.69	90.92	94.42	98.36	100.00	99.54	100.11
54	Security and commodity brokers	93.08	93.63	95.52	96.37	97.46	101.72	102.72	100.41	100.56	100.00	97.20	92.95
55	Insurance carriers	51.78	56.34	62.29	66.71	69.01	74.39	82.49	87.15	94.70	100.00	105.40	107.96
56	Insurance agents, brokers, and service	54.99	59.17	64.32	69.13	70.10	76.55	85.85	90.48	95.87	100.00	103.93	106.74
57	Real estate	77.50	79.93	83.35	86.67	89.33	90.46	92.94	95.14	97.49	100.00	102.94	105.55
58	Nonfarm housing services	74.12	77.41	80.59	84.36	86.99	89.34	91.68	94.16	97.06	100.00	102.88	106.10
59	Other real estate	83.24	84.05	87.87	90.42	93.13	92.21	94.90	96.66	98.14	100.00	103.03	104.79
60	Holding and other investment offices	60.36	66.64	68.79	73.53	75.16	82.11	85.85	87.19	93.78	100.00	109.21	118.13
61	Services	71.51	75.08	78.49	82.37	86.11	89.51	92.13	94.55	97.55	100.00	102.67	105.27
62	Hotels and other lodging places	73.96	78.15	81.90	84.98	89.19	91.03	93.59	95.94	98.03	100.00	105.15	113.80
63	Personal services	73.48	76.31	80.01	83.88	87.44	89.66	92.39	95.15	97.43	100.00	103.12	104.99
64	Business services	82.31	84.85	86.38	89.23	91.47	93.45	94.72	95.35	97.97	100.00	101.81	103.81
65	Auto repair, services, and parking	74.93	77.68	81.23	84.75	87.88	90.30	93.09	95.56	98.50	100.00	102.46	104.42
66	Miscellaneous repair services	75.26	77.47	78.84	81.51	84.19	88.36	92.90	94.37	96.13	100.00	102.58	104.97
67	Motion pictures	72.66	75.54	80.18	84.51	88.48	89.45	90.29	92.97	95.86	100.00	102.41	104.06
68	Amusement and recreation services	73.14	76.24	79.39	83.14	86.88	88.78	91.04	93.89	96.77	100.00	102.64	105.08
69	Health services	64.46	68.78	73.45	78.22	82.88	87.26	91.19	94.70	97.85	100.00	102.30	104.62
70	Legal services	66.02	68.80	72.79	78.17	82.76	86.84	90.58	93.63	96.63	100.00	104.05	107.69
71	Educational services	70.88	74.70	78.50									

Table 12.—Chain-Type Quantity Indexes for Intermediate Inputs by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All industries	73.48	76.62	78.83	80.75	79.70	82.73	87.03	91.16	95.43	100.00	105.49	112.06
2	Private industries	73.50	76.65	78.86	80.77	79.68	82.78	87.00	91.12	95.42	100.00	105.62	112.22
3	Agriculture, forestry, and fishing	81.47	83.97	85.67	87.89	88.27	89.71	91.46	97.28	100.52	100.00	103.80	107.19
4	Farms	85.16	86.24	87.27	89.74	90.49	91.09	94.15	97.94	101.42	100.00	103.18	105.25
5	Agricultural services, forestry, and fishing	52.90	66.71	73.74	74.04	71.36	79.50	71.12	92.41	93.87	100.00	108.52	121.92
6	Mining	97.59	82.77	96.82	99.29	106.65	111.57	105.36	100.70	92.85	100.00	99.63	88.30
7	Metal mining	60.67	78.42	102.18	102.93	90.04	95.43	94.19	102.70	101.42	100.00	102.74	92.71
8	Coal mining	99.02	102.14	109.96	118.90	114.69	109.18	99.58	106.19	101.75	100.00	101.25	99.86
9	Oil and gas extraction	105.30	71.98	89.05	89.41	108.62	117.97	110.09	98.81	85.55	100.00	99.31	82.93
10	Nonmetallic minerals, except fuels	90.20	102.92	105.86	106.88	93.26	97.64	104.24	98.89	105.61	100.00	95.10	90.22
11	Construction	105.34	99.15	97.04	98.39	86.50	92.35	93.69	95.22	95.39	100.00	104.97	109.98
12	Manufacturing	78.49	81.00	82.84	82.67	81.55	85.62	88.31	92.65	96.20	100.00	107.85	115.93
13	Durable goods	70.53	73.27	74.60	73.80	71.10	76.77	80.65	87.00	92.99	100.00	109.81	119.81
14	Lumber and wood products	83.98	83.23	81.39	82.43	76.45	87.36	91.08	95.66	94.77	100.00	101.43	101.62
15	Furniture and fixtures	84.00	83.79	85.31	85.41	79.50	85.87	88.01	93.67	97.37	100.00	109.06	117.25
16	Stone, clay, and glass products	96.64	96.22	91.17	88.93	82.36	81.46	86.11	87.12	90.09	100.00	104.34	108.59
17	Primary metal industries	81.71	89.92	89.93	86.99	82.49	85.84	88.13	93.72	96.31	100.00	105.66	103.28
18	Fabricated metal products	86.36	87.61	87.27	86.63	84.19	88.81	91.73	94.20	96.07	100.00	104.04	112.94
19	Industrial machinery and equipment	49.26	52.25	53.94	53.23	52.81	55.83	64.19	75.14	87.40	100.00	112.67	128.48
20	Electronic and other electric equipment	48.67	49.29	48.23	48.49	46.97	59.53	62.54	71.12	87.41	100.00	116.13	137.43
21	Motor vehicles and equipment	70.71	75.01	80.95	74.92	71.04	78.02	81.99	93.71	95.98	100.00	105.09	110.95
22	Other transportation equipment	106.47	114.82	113.68	123.42	114.83	119.03	111.68	101.55	94.92	100.00	117.94	140.44
23	Instruments and related products	72.55	70.26	75.22	76.93	79.35	81.42	86.85	89.55	97.76	100.00	115.91	122.52
24	Miscellaneous manufacturing industries	84.62	84.39	80.20	83.68	83.73	86.78	93.15	91.70	94.57	100.00	119.06	124.12
25	Nondurable goods	87.83	90.06	92.49	93.08	93.81	95.98	97.25	99.16	99.81	100.00	105.71	111.65
26	Food and kindred products	87.23	88.27	93.10	92.54	94.38	97.30	98.78	100.55	98.28	100.00	103.75	113.00
27	Tobacco products	75.01	81.81	86.66	98.07	103.75	114.77	92.87	94.03	94.59	100.00	110.31	115.73
28	Textile mill products	92.51	91.54	93.07	85.22	84.16	88.55	95.20	99.99	100.25	100.00	108.44	103.81
29	Apparel and other textile products	99.41	95.84	88.94	90.12	90.72	93.93	97.09	101.68	102.13	100.00	104.82	107.86
30	Paper and allied products	86.68	89.26	92.93	92.58	91.92	94.08	91.56	96.74	106.39	100.00	105.02	107.83
31	Printing and publishing	88.70	88.35	87.20	91.51	89.42	91.27	96.73	94.85	98.76	100.00	107.88	111.19
32	Chemicals and allied products	90.58	97.22	100.87	99.76	99.21	100.35	101.07	99.39	100.44	100.00	106.76	113.07
33	Petroleum and coal products	92.95	95.63	97.04	99.73	105.27	100.92	100.53	103.00	100.56	100.00	108.74	119.89
34	Rubber and miscellaneous plastics products	71.52	75.15	76.12	80.36	78.18	83.76	88.68	96.50	97.91	100.00	102.55	104.88
35	Leather and leather products	124.16	117.75	107.08	95.53	77.38	102.82	108.54	94.08	75.24	100.00	94.56	81.35
36	Transportation and public utilities	71.37	78.27	80.68	79.97	80.30	85.22	87.31	90.17	94.19	100.00	103.14	111.75
37	Transportation	67.80	77.67	81.37	85.09	82.12	86.92	88.90	92.65	97.61	100.00	104.18	113.10
38	Railroad transportation	68.09	71.59	94.29	93.01	78.71	87.23	88.00	93.23	100.69	100.00	105.81	109.21
39	Local and interurban passenger transit	80.28	87.52	90.37	98.59	96.25	94.03	95.61	99.06	100.52	100.00	97.47	99.47
40	Trucking and warehousing	51.29	64.91	68.85	74.99	75.12	82.84	85.67	92.39	95.05	100.00	104.71	117.26
41	Water transportation	80.99	88.46	84.77	83.73	82.42	83.44	86.17	85.57	94.95	100.00	96.63	100.69
42	Transportation by air	110.22	110.09	109.31	102.92	101.62	99.30	99.14	95.24	100.41	100.00	104.90	112.21
43	Pipelines, except natural gas	56.60	116.00	92.02	217.41	99.80	113.90	98.72	118.25	133.68	100.00	84.97	45.24
44	Transportation services	32.02	49.90	62.27	73.82	64.06	75.17	80.67	88.60	104.76	100.00	118.42	128.90
45	Communications	64.75	65.45	66.10	63.68	63.92	67.79	67.74	73.40	84.11	100.00	99.68	120.56
46	Telephone and telegraph	51.60	52.61	55.58	54.62	57.78	62.22	64.35	71.73	86.80	100.00	96.77	117.94
47	Radio and television	120.06	119.25	109.41	100.81	88.80	90.33	81.47	80.26	73.70	100.00	110.57	130.48
48	Electric, gas, and sanitary services	85.33	93.75	95.80	88.77	95.39	101.71	106.40	104.42	98.84	100.00	104.84	99.75
49	Wholesale trade	69.50	71.76	72.94	79.35	72.03	73.12	83.39	87.78	103.33	100.00	97.38	93.33
50	Retail trade	78.49	79.84	80.15	84.00	81.79	84.55	92.42	97.34	99.86	100.00	98.55	100.98
51	Finance, insurance, and real estate	66.86	71.04	72.92	78.22	78.88	75.56	84.42	88.49	92.43	100.00	108.00	113.51
52	Depository institutions	77.03	81.10	78.93	72.27	68.13	75.07	93.12	99.54	94.39	100.00	107.64	116.32
53	Nondepository institutions	35.63	39.18	36.78	43.26	43.15	34.56	41.17	65.59	80.23	100.00	110.62	84.30
54	Security and commodity brokers	41.47	30.28	40.35	37.89	66.39	55.66	64.04	56.26	100.24	100.00	143.44	218.16
55	Insurance carriers	102.08	108.26	106.98	111.93	111.19	85.42	106.78	99.60	100.66	100.00	110.88	99.57
56	Insurance agents, brokers, and service	91.51	80.12	88.07	102.87	93.62	88.00	90.73	99.72	103.71	100.00	110.22	131.82
57	Real estate	60.78	67.65	70.43	79.21	77.79	80.74	84.26	89.96	89.12	100.00	101.23	105.88
58	Nonfarm housing services	93.10	93.64	91.85	97.70	96.61	90.98	100.46	98.58	98.08	100.00	106.21	116.88
59	Other real estate	50.79	59.62	63.81	73.49	71.96	77.57	79.27	87.31	86.37	100.00	99.72	102.57
60	Holding and other investment offices	68.36	78.84	80.99	86.31	88.03	91.56	95.64	93.12	95.35	100.00	105.74	114.13
61	Services	55.68	62.39	67.02	71.13	71.89	76.91	80.94	85.87	92.11	100.00	105.43	115.24
62	Hotels and other lodging places	82.05	87.58	85.07	86.85	83.56	95.21	96.32	101.42	99.05	100.00	101.77	104.97
63	Personal services	57.67	61.91	73.76	75.45	70.03	82.54	82.10	88.24	96.65	100.00	104.02	111.96
64	Business services	31.88	40.22	47.87	54.01	57.67	58.26	64.94	72.86	86.00	100.00	109.14	136.00
65	Auto repair, services, and parking	62.25	69.56	75.89	71.15	62.71	76.14	82.87	88.33	92.47	100.00	103.07	101.82
66	Miscellaneous repair services	59.32	62.26	65.12	72.14	71.69	81.08	77.82	90.02	99.90	100.00	111.54	123.11
67	Motion pictures	64.29	73.42	70.12	78.62	81.80	86.21	89.18	101.16	101.33	100.00	103.22	105.52
68	Amusement and recreation services	41.47	49.07	51.05	57.01	55.77	60.98	76.27	80.98	91.69	100.00	103.46	103.95
69	Health services	60.08	68.28	71.61	77.30	81.97	89.08	93.56	95.48	99.10	100.00	105.26	111.62
70	Legal services	52.19	55.07	63.25	69.71	67.15	73.07	82.22	83.50	67.21	100.00	93.62	96.29
71													

Table 13.—Chain-Type Price Indexes for Intermediate Inputs by Industry, 1987–98

[1996=100]

Line		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1	All industries	81.47	84.63	88.05	90.80	91.28	91.95	93.63	95.19	98.48	100.00	100.74	98.72
2	Private industries	81.48	84.66	88.09	90.82	91.30	91.97	93.64	95.21	98.51	100.00	100.73	98.70
3	Agriculture, forestry, and fishing	77.76	83.69	88.14	89.63	90.21	89.96	92.40	93.61	94.44	100.00	102.33	97.53
4	Farms	78.24	84.21	88.75	90.32	90.84	90.44	92.75	93.77	94.27	100.00	102.67	97.70
5	Agricultural services, forestry, and fishing	73.59	79.11	82.78	83.58	84.65	85.82	89.43	92.29	95.76	100.00	99.84	96.24
6	Mining	80.42	80.03	84.16	89.70	87.29	87.70	92.05	89.26	88.46	100.00	102.05	92.37
7	Metal mining	82.12	87.83	90.91	92.95	91.13	90.36	91.42	95.06	98.77	100.00	99.29	94.92
8	Coal mining	89.53	90.24	92.59	95.74	96.23	96.26	96.09	96.95	98.46	100.00	100.42	98.18
9	Oil and gas extraction	76.12	74.04	79.38	86.96	82.74	83.42	90.11	84.40	81.31	100.00	103.27	88.76
10	Nonmetallic minerals, except fuels	80.52	82.74	86.36	90.48	90.81	91.30	92.59	94.17	96.36	100.00	100.82	96.91
11	Construction	77.36	80.93	83.83	86.18	87.64	89.75	92.75	95.47	98.56	100.00	101.80	102.16
12	Manufacturing	84.90	88.83	92.39	94.55	93.45	93.35	94.23	95.66	100.11	100.00	98.87	94.40
13	Durable goods	89.08	93.94	96.67	97.29	97.04	97.20	98.30	100.17	102.66	100.00	98.78	95.56
14	Lumber and wood products	69.84	73.28	76.56	78.65	79.17	85.42	97.56	100.33	100.11	100.00	103.15	100.38
15	Furniture and fixtures	79.34	83.40	86.10	87.81	88.65	90.13	93.08	95.74	99.81	100.00	100.76	100.28
16	Stone, clay, and glass products	81.32	83.82	86.54	88.48	89.03	89.74	91.62	94.35	98.41	100.00	101.17	100.70
17	Primary metal industries	82.42	82.88	86.23	94.31	90.78	89.78	88.81	94.41	103.13	100.00	100.91	95.66
18	Fabricated metal products	81.64	87.80	91.12	91.61	90.83	90.51	91.21	94.39	101.10	100.00	100.82	99.38
19	Industrial machinery and equipment	100.59	104.26	106.58	107.01	106.53	105.20	104.65	104.74	104.78	100.00	96.59	92.03
20	Electronic and other electric equipment	102.83	108.15	110.54	109.77	108.90	107.75	107.57	107.78	106.76	100.00	95.52	89.95
21	Motor vehicles and equipment	88.56	91.57	94.03	95.67	96.53	96.82	97.65	99.08	100.99	100.00	99.13	97.37
22	Other transportation equipment	81.30	84.47	87.13	89.33	91.44	93.05	94.67	96.55	99.37	100.00	100.87	100.70
23	Instruments and related products	101.01	105.54	107.44	106.55	105.82	104.84	104.61	104.67	104.82	100.00	96.81	92.50
24	Miscellaneous manufacturing industries	81.08	86.48	89.60	91.20	90.72	91.13	91.99	94.47	99.72	100.00	100.27	99.10
25	Nondurable goods	80.62	83.70	87.97	91.46	89.64	89.33	90.00	91.02	97.41	100.00	98.98	93.06
26	Food and kindred products	82.40	87.69	90.60	92.37	90.88	90.53	92.95	93.05	96.94	100.00	99.00	94.90
27	Tobacco products	78.03	82.08	85.82	88.60	91.39	91.83	92.89	94.68	98.99	100.00	100.59	101.32
28	Textile mill products	84.43	88.12	90.75	93.10	93.31	93.34	93.69	96.07	100.37	100.00	98.56	96.95
29	Apparel and other textile products	84.44	88.47	90.21	92.61	93.91	95.23	95.77	96.26	99.11	100.00	101.06	101.03
30	Paper and allied products	78.49	84.75	89.29	90.49	89.27	88.77	90.03	91.83	103.49	100.00	98.59	97.77
31	Printing and publishing	79.68	84.39	87.86	89.57	90.12	90.03	90.70	92.11	101.31	100.00	99.20	99.72
32	Chemicals and allied products	76.14	80.62	84.33	86.27	87.34	87.79	89.09	91.87	98.12	100.00	101.28	96.37
33	Petroleum and coal products	82.15	72.07	83.17	98.29	86.30	84.05	79.01	77.37	85.00	100.00	93.66	67.68
34	Rubber and miscellaneous plastics products	80.13	86.94	89.28	89.36	89.53	89.51	90.89	93.22	101.37	100.00	100.65	97.64
35	Leather and leather products	81.99	87.62	90.49	93.99	91.54	91.61	93.56	97.63	102.63	100.00	101.93	96.89
36	Transportation and public utilities	82.99	83.64	87.22	92.12	91.95	92.29	93.87	94.21	95.15	100.00	101.13	96.89
37	Transportation	80.36	81.29	85.76	92.06	91.86	92.06	93.21	94.27	96.29	100.00	100.61	97.00
38	Railroad transportation	78.77	80.78	84.85	90.12	90.44	90.91	91.89	93.20	94.98	100.00	100.35	95.91
39	Local and interurban passenger transit	79.36	81.80	86.42	93.62	92.68	92.06	92.72	94.17	95.95	100.00	98.98	90.93
40	Trucking and warehousing	80.99	81.36	85.79	91.67	91.15	91.39	92.70	94.22	96.47	100.00	100.58	97.69
41	Water transportation	80.85	81.41	85.48	90.25	91.03	92.39	94.06	95.35	97.68	100.00	101.70	101.00
42	Transportation by air	80.62	81.74	86.85	95.47	94.90	94.24	94.77	94.21	95.36	100.00	100.18	92.94
43	Pipelines, except natural gas	80.62	82.21	85.03	88.14	89.75	91.02	92.78	95.02	97.55	100.00	100.40	98.72
44	Transportation services	77.99	80.45	83.29	86.10	88.45	90.52	92.31	94.32	97.35	100.00	102.12	103.73
45	Communications	85.71	87.45	90.28	92.11	94.26	95.10	96.58	98.22	99.56	100.00	100.51	99.79
46	Telephone and telegraph	91.02	91.91	93.90	94.61	95.97	96.49	97.73	99.24	100.25	100.00	99.92	98.57
47	Radio and television	73.15	76.21	80.43	84.43	88.32	89.96	92.09	94.11	96.73	100.00	102.58	104.03
48	Electric, gas, and sanitary services	84.14	83.58	86.27	91.08	89.27	89.46	91.77	90.05	88.81	100.00	102.73	93.29
49	Wholesale trade	82.82	85.60	88.62	91.34	93.15	94.05	95.52	97.15	99.57	100.00	100.33	99.02
50	Retail trade	79.59	81.93	85.40	88.49	90.30	90.87	92.74	94.84	97.82	100.00	102.04	102.82
51	Finance, insurance, and real estate	73.87	76.78	80.04	82.97	85.51	87.93	91.27	93.77	97.22	100.00	104.08	107.18
52	Depository institutions	75.86	78.35	80.82	83.31	85.96	88.22	90.81	93.64	97.31	100.00	102.75	105.21
53	Nondepository institutions	73.64	76.14	78.29	80.53	83.17	85.98	88.96	92.04	96.13	100.00	103.83	107.95
54	Security and commodity brokers	81.33	84.12	87.17	88.69	90.53	92.62	95.21	97.10	98.98	100.00	101.51	102.43
55	Insurance carriers	62.25	66.15	70.90	75.12	76.68	81.57	88.57	92.21	96.71	100.00	103.24	105.84
56	Insurance agents, brokers, and service	77.73	80.67	83.90	86.93	89.97	91.66	93.39	95.55	98.37	100.00	102.05	102.98
57	Real estate	77.59	80.08	82.87	85.42	88.45	89.86	92.08	94.02	97.16	100.00	105.45	109.42
58	Nonfarm housing services	77.95	80.25	83.38	85.70	89.60	89.84	92.42	94.78	97.07	100.00	103.81	106.19
59	Other real estate	77.47	80.06	82.70	85.34	88.02	89.88	91.97	93.76	97.19	100.00	105.97	110.48
60	Holding and other investment offices	74.07	76.85	79.43	81.95	83.91	87.07	91.59	94.47	98.00	100.00	102.91	107.20
61	Services	80.44	83.35	86.45	89.27	91.64	92.82	94.41	96.12	98.77	100.00	101.23	101.24
62	Hotels and other lodging places	78.10	80.92	83.80	86.55	88.55	90.10	92.18	94.34	97.34	100.00	102.59	104.52
63	Personal services	78.46	80.86	83.98	86.99	89.43	90.72	92.69	94.83	97.66	100.00	102.36	103.53
64	Business services	93.59	96.17	98.42	100.06	101.47	100.90	101.08	101.20	101.68	100.00	98.85	96.02
65	Auto repair, services, and parking	80.20	82.62	86.17	89.94	91.40	92.09	93.90	95.71	98.09	100.00	100.89	100.20
66	Miscellaneous repair services	89.31	92.29	94.20	94.94	95.62	95.51	96.70	98.04	99.68	100.00	100.28	98.63
67	Motion pictures	73.58	76.56	81.09	85.21	88.76	89.54	90.93	93.53	96.79	100.00	102.58	104.17
68	Amusement and recreation services	76.63	79.36	82.83	86.07	88.89	90.24	91.86	94.14	97.23	100.00	102.19	103.28
69	Health services	77.74	80.72	83.99	86.81	89.51	91.14	93.18	95.17	98.58	100.00	101.39	101.81
70	Legal services	77.90	80.39	83.75	86.63	90.10	91.23	93.17	95.29	98.08	100.00	102.66	104.33
71	Educational services	78.30	81.28	84.48	87.48	89.58	90.92	93.00	95.16	98.28	100.00	101.92	103.12
72	Social services	78.27	81.33	84.66	87.60	89.83	91.04	93.00	94.99				

Table 14.—Current-Dollar Cost Per Unit of Real Gross Product Originating by Private Industry Group, 1987–98

[Dollars]

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total	0.783	0.808	0.838	0.871	0.899	0.922	0.946	0.966	0.985	1.000	1.013	1.020
Compensation of employees	0.422	0.433	0.447	0.468	0.481	0.496	0.509	0.515	0.522	0.525	0.532	0.543
Indirect business tax and nontax liability	0.071	0.071	0.075	0.078	0.085	0.088	0.090	0.092	0.092	0.092	0.090	0.090
Property-type income	0.290	0.304	0.316	0.324	0.333	0.339	0.347	0.359	0.371	0.383	0.391	0.387
Agriculture, forestry and fishing	0.806	0.880	0.916	0.913	0.848	0.854	0.884	0.873	0.892	1.000	0.906	0.876
Compensation of employees	0.195	0.240	0.236	0.252	0.250	0.234	0.267	0.256	0.300	0.305	0.299	0.324
Indirect business tax and nontax liability	0.044	0.048	0.046	0.047	0.047	0.045	0.047	0.046	0.053	0.051	0.049	0.050
Property-type income	0.567	0.592	0.634	0.614	0.552	0.575	0.569	0.571	0.538	0.644	0.559	0.502
Mining	0.935	0.866	0.944	1.057	0.956	0.916	0.874	0.835	0.847	1.000	1.014	0.838
Compensation of employees	0.301	0.267	0.292	0.304	0.325	0.338	0.317	0.300	0.288	0.295	0.297	0.287
Indirect business tax and nontax liability	0.104	0.091	0.103	0.110	0.116	0.120	0.113	0.105	0.100	0.108	0.101	0.094
Property-type income	0.530	0.508	0.549	0.643	0.515	0.458	0.444	0.429	0.459	0.597	0.616	0.457
Construction	0.788	0.806	0.830	0.856	0.866	0.863	0.892	0.926	0.969	1.000	1.042	1.088
Compensation of employees	0.523	0.537	0.556	0.587	0.596	0.586	0.594	0.614	0.645	0.658	0.690	0.726
Indirect business tax and nontax liability	0.015	0.016	0.016	0.017	0.019	0.020	0.021	0.022	0.023	0.023	0.024	0.025
Property-type income	0.250	0.254	0.257	0.252	0.251	0.257	0.276	0.290	0.301	0.319	0.328	0.338
Manufacturing	0.849	0.875	0.916	0.944	0.979	0.997	1.008	1.014	1.003	1.000	0.994	0.989
Compensation of employees	0.583	0.581	0.606	0.626	0.653	0.669	0.672	0.658	0.633	0.625	0.626	0.632
Indirect business tax and nontax liability	0.029	0.029	0.031	0.033	0.038	0.040	0.040	0.038	0.037	0.038	0.036	0.037
Property-type income	0.237	0.265	0.279	0.285	0.287	0.288	0.296	0.318	0.333	0.338	0.332	0.320
Durable goods	0.955	0.956	0.988	1.002	1.029	1.044	1.054	1.057	1.021	1.000	0.974	0.929
Compensation of employees	0.709	0.693	0.718	0.732	0.761	0.776	0.767	0.744	0.705	0.679	0.659	0.633
Indirect business tax and nontax liability	0.021	0.021	0.022	0.023	0.026	0.027	0.026	0.026	0.024	0.025	0.024	0.022
Property-type income	0.225	0.242	0.249	0.247	0.242	0.242	0.260	0.287	0.292	0.296	0.292	0.274
Nondurable goods	0.726	0.778	0.828	0.873	0.916	0.938	0.949	0.960	0.980	1.000	1.022	1.080
Compensation of employees	0.441	0.451	0.477	0.504	0.529	0.547	0.560	0.553	0.542	0.554	0.579	0.624
Indirect business tax and nontax liability	0.038	0.038	0.040	0.043	0.052	0.054	0.055	0.053	0.053	0.054	0.055	0.062
Property-type income	0.247	0.289	0.311	0.326	0.335	0.337	0.335	0.354	0.385	0.392	0.389	0.394
Transportation and public utilities	0.926	0.937	0.937	0.935	0.954	0.969	0.995	1.009	1.013	1.000	1.019	1.046
Compensation of employees	0.417	0.418	0.417	0.422	0.422	0.431	0.434	0.441	0.434	0.428	0.431	0.444
Indirect business tax and nontax liability	0.088	0.090	0.092	0.094	0.099	0.102	0.103	0.103	0.103	0.098	0.098	0.101
Property-type income	0.421	0.429	0.428	0.419	0.433	0.436	0.457	0.464	0.476	0.474	0.490	0.500
Wholesale trade	0.874	0.914	0.914	0.952	0.950	0.932	0.956	0.995	1.036	1.000	0.971	0.924
Compensation of employees	0.513	0.524	0.534	0.564	0.545	0.537	0.541	0.541	0.571	0.545	0.526	0.505
Indirect business tax and nontax liability	0.190	0.197	0.197	0.207	0.217	0.213	0.223	0.236	0.240	0.224	0.208	0.191
Property-type income	0.171	0.192	0.182	0.182	0.187	0.181	0.192	0.218	0.225	0.230	0.237	0.228
Retail trade	0.848	0.847	0.876	0.908	0.944	0.968	0.993	1.005	1.008	1.000	0.993	0.983
Compensation of employees	0.513	0.516	0.525	0.551	0.569	0.584	0.590	0.589	0.596	0.580	0.568	0.561
Indirect business tax and nontax liability	0.146	0.144	0.149	0.158	0.165	0.172	0.179	0.183	0.188	0.185	0.181	0.178
Property-type income	0.189	0.187	0.201	0.198	0.210	0.213	0.224	0.234	0.225	0.235	0.244	0.244
Finance, insurance and real estate	0.710	0.739	0.773	0.808	0.844	0.879	0.907	0.931	0.967	1.000	1.034	1.042
Compensation of employees	0.175	0.183	0.186	0.195	0.199	0.212	0.226	0.231	0.232	0.245	0.253	0.265
Indirect business tax and nontax liability	0.099	0.100	0.106	0.112	0.120	0.124	0.128	0.130	0.127	0.129	0.128	0.124
Property-type income	0.436	0.456	0.481	0.501	0.524	0.543	0.553	0.570	0.609	0.626	0.653	0.652
Services	0.669	0.707	0.743	0.787	0.831	0.876	0.908	0.936	0.968	1.000	1.035	1.078
Compensation of employees	0.467	0.488	0.515	0.552	0.585	0.618	0.646	0.666	0.696	0.718	0.744	0.779
Indirect business tax and nontax liability	0.018	0.019	0.020	0.021	0.023	0.024	0.026	0.028	0.029	0.030	0.031	0.031
Property-type income	0.184	0.200	0.208	0.214	0.224	0.234	0.235	0.242	0.243	0.252	0.260	0.268

NOTE.—Current-dollar cost per unit of real gross product originating equals the GPO price index divided by 100.