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IBEA BRIEFING

New Quarterly Gross Domestic Product by Industry Statistics

By Erich H. Strassner and David B. Wasshausen

THE MOST RECENT recession and subsequent recovery have highlighted the need for more high-quality, "real-time" information on U.S. economic performance at the industry level. While the Bureau of Economic Analysis' (BEA) annual statistics on the breakout of gross domestic product (GDP) by industry can be used to describe the leading contributors to business cycle dynamics, these annual statistics are unable to provide a timely picture of the dynamic U.S. economy as it evolves on a real-time basis from quarter to quarter.

With a goal of providing more timely information on economic turning points, on accelerations and decelerations in economic growth at the industry level, and on changes in industrial infrastructure, BEA issued its first "regular" release of current quarterly GDP by industry on April 25, 2014. These new, quarterly statistics—spanning the period 2005–2013—will now be published regularly within 30 days of BEA's third release of GDP. With the release of quarterly industry statistics, the latest snapshot on U.S. producers shows that U.S. economic growth in the fourth quarter of 2013 decelerated to 2.6 percent from 4.1 percent in the third quarter; the deceleration was led by a slowdown in growth in the services-producing sector and a larger contraction by the government sector, which was partly offset by a pickup in growth in the goods-producing sector (chart 1).

Brian M. Lindberg prepared the tables and charts for this article.

Chart 1. Real GDP and Contributions to Percent Change in Real GDP, 2005–2013 Percentage points 6 Real GDF -2 -4 -6 Private goods Private services Government -8 -102006 2007 2008 2009 2010 2011 2012 2013 Note. The yellow-shaded area denotes a recession as determined by the Business Cycle Dating Committee of the National Bureau of Economic Research. U.S. Bureau of Economic Analysis

Quarterly GDP by industry statistics fill an important void in U.S. federal economic statistics by providing timely information on how individual industries contributed to U.S. economic growth in a given quarter while providing businesses with a comprehensive and consistent tool for assessing how their industries are faring, compared with other industries.

Policymakers, businesses, and academia will also be able to use the statistics to more quickly identify economic turning points, improving their ability to understand a given sector's performance. These new statistics supplement other quarterly and monthly indicators of industries' performance—such as employment, sales and shipments, industrial production, profits, and prices—by providing a comprehensive and consistent picture of industries' overall performance and by allowing for a more complete analysis of business cycle dynamics and the sources of U.S. economic growth. Measures of gross output and of intermediate inputs by industry are also included and are prepared within an integrated framework that ensures consistency with GDP and the final expenditure components published in BEA's national income and product accounts (NIPAs) (see the box "Relationship Between

Gross Output and Value Added" on page 7).

In this first release of quarterly GDP by industry statistics, estimates are presented for 2005–2013. The methodology used to prepare these estimates is largely consistent with the methodology previously used to produce the final prototype statistics. These newly released statistics include an improved measure of the gross operating surplus, which is now initially informed by both the gross output and establishment-based distributions of gross domestic income.¹

Overall, the GDP by industry statistics align very closely with GDP statistics published in the NIPAs (chart 2). Quarterly GDP by industry results are presented, including an example of the benefit of having a more precise view of industry performance, an analysis of industry dynamics over the recent business cycle, and the latest snapshot on U.S. producers as of the fourth quarter of 2013. The section on "future directions" highlights both short- and long-run plans for these statistics.

A Multiphase Development of Quarterly GDP by Industry Statistics

This BEA Briefing reflects the culmination of a series of articles about quarterly GDP by industry statistics that dates back to February, 2010. BEA had been exploring the idea of producing quarterly GDP by industry since 2003 and with the critical expansion of improved source data available from the Census Bureau, particularly for the services sector, BEA was able to begin producing high-quality quarterly GDP by industry statistics on an experimental basis in 2010 and on a prototype basis beginning in 2011. The first set of experimental measures reflected a two-phase research effort. In the first phase, BEA developed current-dollar GDP by industry estimates based on adjusted gross domestic income data by industry from BEA's quarterly national income and product account statistics. These estimates were adjusted for inflation using a single-deflation procedure; that is, the value-added estimates were deflated using price indexes for gross output. In the second phase, BEA developed an

improved methodology that (1) accounts separately for changes in input and output prices, a method known as double-deflation and that (2) uses a "balanced" framework that draws on information from BEA's input-output (I-O) accounts to align the estimates with inputs, outputs, and value added across the economy. In the first set of prototype quarterly GDP by industry statistics, presented in 2011, BEA improved its use of the balanced I-O framework for measuring quarterly time series. Improved source data were introduced for commodityspecific output and price indicators, along with an improved methodology for measuring the gross operating surplus. The improved methodology relied on the balanced I-O framework to set the levels of gross operating surplus and intermediate inputs for each industry and was much more consistent with the methodology used to construct the annual time series statistics than the one used for the previous quarterly prototypes. In the final version of prototype quarterly statistics—released in June 2012 and updated in December 2012—BEA published quarterly gross output for the first time, introduced a streamlined method for preparing balanced use tables, and modified the methodology for estimating gross operating surplus to more heavily rely on existing quarterly gross domestic income statistics from the NIPAs.

^{1.} In contrast, the final prototype estimates of gross operating surplus were initially informed almost exclusively by establishment-based distributions of gross domestic income. For the methodology used to prepare these estimates, see the appendix at the end of this briefing.

^{1.} See Erich H. Strassner and David B. Wasshausen, "Prototype Quarterly Statistics on U.S. Gross Domestic Product (GDP) by Industry, 2007–2011," Survey of Current Business 92 (June 2012):49–65, Nicole M. Mayerhauser and Erich H. Strassner, "Prototype Quarterly Statistics on U.S. GDP by Industry," Survey 91 (July 2011): 32–43, and Carol A. Robbins, Thomas F. Howells, and Wendy Li, "Experimental Quarterly GDP by Industry," Survey 90 (February 2010): 24–31.

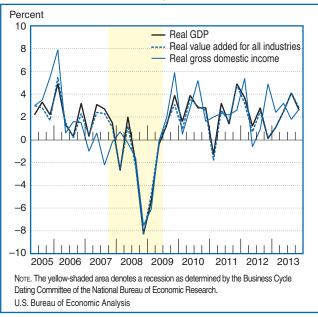
A more precise and timely view of industry performance

The addition of quarterly GDP by industry statistics—fully integrated with the NIPAs and corresponding GDP—provides a more complete picture of the economy as it evolves. For example, annual-only statistics for durable-goods manufacturing, which includes the computer and electronic products manufacturing industry and motor vehicle manufacturing and its supply chain, showed a large drop in its level of economic output from 2008 to 2009 before rebounding in 2010 (chart 3). In fact, quarterly statistics reveal that real value added for this industry group peaked in the fourth quarter of 2007 and contracted in five of the next six quarters before beginning to recover in the third quarter of 2009. Moreover, the annual statistics showed that value added as of 2011 had surpassed its peak level of 2007. The higher frequency quarterly statistics, however, indicate that the industry group surpassed its previous peak of the fourth quarter of 2007 not in 2011 but in the first quarter of 2012.

Industry dynamics over the recent business cycle

The introduction of quarterly GDP by industry statistics provides new insights into industry performance during the period of the Great Recession and during the beginning of the period of economic recovery. In the financial crisis that preceded the Great Recession, real value added for the finance, insurance, real estate, rental and leasing (FIRE) industry group first turned down in second quarter of 2007. In the fourth quarter

Chart 2. Percent Changes in Real GDP, Value Added, and Gross Domestic Income, 2005–2013



of 2007, the FIRE industry group subtracted 1.87 percentage points from the 1.5 percent increase in U.S. economic activity (chart 4). In the first quarter of 2008, the economy turned down for the first time since the third quarter of 2001, and manufacturing contributed 2.29 percentage points to the 2.7 percent contraction in real GDP; wholesale and retail trade subtracted an additional 0.55 percentage point from economic activity in the first quarter. In 2008, more industry groups turned down; by the fourth quarter of 2008, 15 of 22 major industry groups contributed to the 8.3

Chart 3. Real Value Added for Durable-Goods Manufacturing, 2005–2013

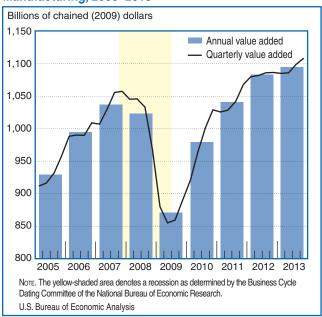
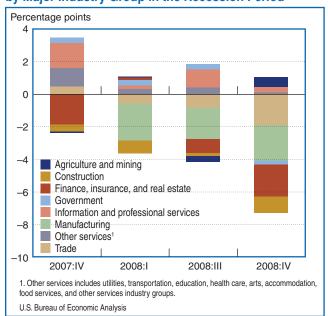


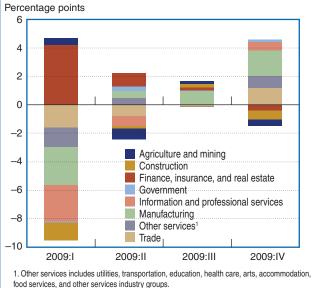
Chart 4. Contributions to Percent Change in Real GDP by Major Industry Group in the Recession Period



percent decrease in real GDP, with the contraction deepening for manufacturing, wholesale and retail trade, and finance and insurance.

Beginning with the first quarter of 2009, FIRE turned up and contributed 4.23 percentage points to economic activity, while the majority of other major industry groups continued to contract as the economy decreased an additional 5.4 percent (chart 5). The upturn in FIRE preceded the recovery in other major industry groups. Although GDP reached its trough in the second quarter of 2009, manufacturing began its recovery in the second quarter by contributing 0.49 percentage point to economic activity. In the third quarter of 2009, the economy expanded for the first time since the fourth quarter of 2007, increasing 1.3 percent, with 10 of 22 major industry groups, led by manufacturing, contributing to the increase. In the fourth quarter of 2009, the economy expanded an additional 3.9 percent, with 16 of 22 industry groups contributing to growth; manufacturing, wholesale and retail trade, and the information industry groups were the leading contributors to the increase.

Chart 5. Contributions to Percent Change in Real GDP by Major Industry Group in the Recovery Period



- food services, and other services industry groups
- U.S. Bureau of Economic Analysis

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The Latest Snapshot of U.S. Producers

Table A. Percent Changes in Real Value Added by Industry Group

[Seasonally adjusted at annual rates]

	20	12		20	13	
	III	IV	ı	II	III	IV
Gross domestic product	2.8	0.1	1.1	2.5	4.1	2.6
Private industries	2.8	0.3	1.5	3.0	5.0	3.5
Agriculture, forestry, fishing, and hunting	-25.1	-23.7	133.4	7.9	13.3	-7.0
Mining	8.3	9.3	-15.5	10.9	0.2	10.3
Utilities	7.0	-2.4	3.7	-2.7	3.5	0.3
Construction	0.5	7.8	-3.1	2.9	6.6	-5.9
Manufacturing	-2.4	-3.4	8.8	5.1	4.0	10.4
Durable goods	1.5	0.2	-0.5	0.3	5.1	3.5
Nondurable goods	-6.6	-7.3	20.2	10.8	2.9	18.6
Wholesale trade	2.1	-3.4	0.8	1.2	7.3	6.9
Retail trade	14.7	-2.9	6.4	-1.5	4.7	-2.4
Transportation and warehousing	2.7	0.4	2.5	-1.7	4.9	2.4
Information	1.9	-11.4	12.5	2.7	7.7	6.1
Finance, insurance, real estate, rental, and leasing	4.8	0.1	-2.5	4.8	4.0	0.2
Finance and insurance	4.9	2.5	-8.4	12.3	0.3	-0.2
Real estate and rental and leasing	4.8	-1.1	0.7	1.1	6.0	0.3
Professional and business services	4.5	8.5	-10.1	4.8	9.5	7.0
Professional, scientific, and technical services	3.2	8.2	-9.8	4.2	8.3	5.9
Management of companies and enterprises	10.1	23.1	-16.6	10.8	20.0	12.2
Administrative and waste management services	4.1	0.9	-6.0	2.4	6.0	6.0
Educational services, health care, and social						
assistance	1.9	3.1	2.5	0.8	2.2	1.6
Educational services	0.5	0.7	-5.0	-0.2	3.1	-1.0
Health care and social assistance	2.1	3.5	3.7	1.0	2.0	2.0
Arts, entertainment, recreation, accommodation, and food services	-0.3	6.3	3.6	-1.7	0.2	7.8
Arts, entertainment, and recreation	0.0	-0.2	2.3	2.9	1.5	8.8
Accommodation and food services	-0.4	8.8	4.0	-3.2	-0.2	7.5
Other services, except government	2.2	1.3	-4.3	-0.2	0.7	0.4
Government	0.6	-0.7	-1.6	-1.2	-1.3	-2.0
Federal	-1.4	-2.2	-3.5	-3.2	-5.5	-6.0
State and local	1.5	0.0	-0.7	-0.3	0.7	0.0
Addenda:	1.0	0.0	0.7	0.0	0.7	0.0
Private goods-producing industries ¹	-2.2	-1.3	8.9	5.7	4.7	5.9
Private services-producing industries ²	4.3	0.8	-0.7	2.2	5.1	2.8

^{1.} Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.

Real GDP increased 2.6 percent in the fourth quarter of 2013; 15 of 22 major industry groups contributed to economic growth.

Mining increased 10.3 percent in the fourth quarter of 2013 after increasing 0.2 percent in the third quarter, partly reflecting an increase in production of oil and gas extraction.

Durable-goods manufacturing increased 3.5 percent after increasing 5.1 percent. The fourth-quarter increase partly reflected an increase in shipments by the computer and electronic products manufacturing industry as well as the farm machinery and equipment manufacturing industry.

Nondurable-goods manufacturing, which includes petroleum and coal products and chemical products, was the leading contributor to economic growth in the fourth quarter and in 2013. The industry group increased almost 19 percent in the fourth quarter, primarily reflecting an increase in profits.

Wholesale trade, the third leading contributor to growth in the fourth quarter, increased 6.9 percent after increasing 7.3 percent. The fourth-quarter increase partly reflected an increase in sales for wholesalers of machinery, equipment, and supplies.

Professional, scientific, and technical services, the second leading contributor to the increase in real GDP, expanded 5.9 percent in the fourth quarter after increasing 8.3 percent in the third quarter. The increase reflected an increase in compensation of employees for the industry group and an increase in receipts for the scientific research and development services industry.

Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

The Latest Snapshot of U.S. Producers

Table B. Contributions to Percent Change in Real GDP by Industry Group

[Percentage points, seasonally adjusted at annual rates]

	20	12		20	13	
	III	IV	I	II	III	IV
Gross domestic product 1	2.8	0.1	1.1	2.5	4.1	2.6
Private industries	2.41	0.28	1.28	2.63	4.30	3.07
Agriculture, forestry, fishing, and hunting	-0.36	-0.33	1.21	0.13	0.20	-0.11
Mining	0.21	0.23	-0.44	0.27	0.01	0.27
Utilities	0.12	-0.04	0.06	-0.05	0.06	0.01
Construction	0.02	0.27	-0.11	0.10	0.24	-0.22
Manufacturing	-0.32	-0.44	1.06	0.63	0.50	1.23
Durable goods	0.10	0.01	-0.03	0.02	0.33	0.23
Nondurable goods	-0.42	-0.46	1.09	0.61	0.17	1.01
Wholesale trade	0.12	-0.21	0.05	0.07	0.42	0.40
Retail trade	0.79	-0.17	0.35	-0.08	0.27	-0.14
Transportation and warehousing	0.08	0.01	0.07	-0.05	0.14	0.07
Information	0.09	-0.57	0.55	0.13	0.36	0.29
Finance, insurance, real estate, rental, and leasing	0.94	0.02	-0.50	0.92	0.79	0.03
Finance and insurance	0.32	0.17	-0.59	0.78	0.03	-0.01
Real estate and rental and leasing	0.62	-0.15	0.09	0.14	0.77	0.05
Professional and business services	0.53	0.98	-1.27	0.56	1.10	0.82
Professional, scientific, and technical services	0.23	0.55	-0.73	0.28	0.56	0.41
Management of companies and enterprises	0.18	0.40	-0.35	0.20	0.36	0.23
Administrative and waste management services	0.12	0.03	-0.19	0.07	0.18	0.18
Educational services, health care, and social assistance	0.15	0.26	0.20	0.07	0.18	0.13
Educational services	0.01	0.01	-0.06	0.00	0.03	-0.01
Health care and social assistance	0.15	0.25	0.26	0.07	0.15	0.14
Arts, entertainment, recreation, accommodation,						
and food services	-0.01	0.23	0.13		0.01	0.28
Arts, entertainment, and recreation	0.00	0.00	0.02	0.03	0.01	0.08
Accommodation and food services	-0.01	0.23	0.11	-0.09	0.00	0.20
Other services, except government	0.05	0.03	-0.10	0.00	0.02	0.01
Government	0.08	-0.10	-0.21	-0.16		-0.25
Federal	-0.06	-0.09	-0.15	-0.14	-0.23	-0.25
State and local	0.14	0.00	-0.06	-0.02	0.07	0.00
Addenda:						
Private goods-producing industries ²	-0.45	-0.26	1.72	1.14	0.95	1.17
Private services-producing industries ³	2.85	0.54	-0.44	1.49	3.36	1.90

GDP Gross domestic product

U.S. economic growth decelerated to 2.6 percent in the fourth quarter of 2013 from 4.1 percent in the third quarter. The deceleration reflected a slowdown in the private services-producing sector and a larger decrease in the government sector that was partly offset by a pickup in growth in the goods-producing sector. Overall, 17 of the 22 major industry groups contributed to the slowdown in economic activity.

Agriculture, forestry, fishing, and hunting turned down in the fourth quarter for the first time since the fourth quarter of 2012, primarily reflecting severe weather.

Construction turned down, decreasing 5.9 percent after increasing 6.6 percent and was the second leading contributor to the slowdown in economic growth in the fourth quarter. The downturn in construction primarily reflected a downturn in real gross output, which in turn reflected an acceleration in gross output prices, which increased at their fastest pace since the fourth quarter of 2007. The acceleration primarily reflected an acceleration in prices for new single-family residential construction and also for new residential improvements.

Retail trade turned down, decreasing 2.4 percent after increasing 4.7 percent, and was the third leading contributor to the slowdown in economic growth. The downturn primarily reflected a deceleration in real gross output, that in turn reflected an acceleration in gross margin prices, particularly for general merchandise stores.

Real estate, rental, and leasing was the leading contributor to the slowdown in economic growth in the fourth quarter of 2013, increasing 0.3 percent after increasing 6.0 percent. The slowdown reflected a slowdown in both residential and nonresidential real estate.

The government sector contracted for the fifth consecutive quarter, decreasing 2.0 percent after decreasing 1.3 percent. The larger decrease primarily reflected a larger decrease in federal government partly due to the partial federal government shutdown in October, 2013.

The estimates of gross domestic product under the contributions columns are percent changes.
 Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance,

^{3.} Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because the contribution of the "Not allocated by industry" line is excluded.

Future Directions

With this first, regular release of quarterly GDP by industry complete, BEA is looking forward to a number of future enhancements to this important, new set of statistics. Within the next year or 2, BEA plans to expand the level of detail presented from 22 industry groups to 69 industry groups. In about that same timeframe, BEA plans to accelerate the release of quarterly GDP by industry to coincide with the third estimate of the current-quarter NIPA GDP.²

Over a longer horizon, BEA plans to study the feasibility of producing quarterly GDP by industry coincident with the advance release of GDP. An acceleration of this

magnitude will require significant changes to the way these estimates are currently produced and will necessitate a careful analysis of the quality of the resulting estimates. Finally, BEA also plans to study the feasibility of producing a third "production-based" measure of quarterly GDP. Currently, BEA produces two measures of quarterly GDP: (1) a final demand-based measure, which is the featured measure, and (2) an income-based measure referred to as gross domestic income. Quarterly GDP by industry is prepared in a fully balanced inputoutput framework in which the sum of all value added is forced to equal the final demand-based measure of GDP. With more complete, quarterly information on business expenses and intermediate inputs, it is possible to produce a third production-based measure of quarterly GDP.3

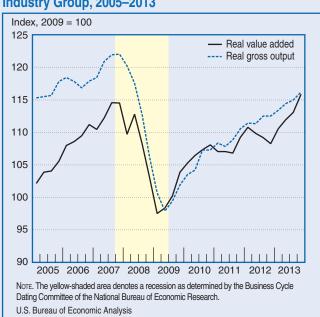
Relationship Between Gross Output and Value Added

While many users focus on gross domestic product (GDP) by industry, gross output by industry is also a highly useful statistic that is published as part of BEA's industry economic accounts. Gross output is principally a measure of an industry's sales or receipts, which can include sales to final users in the economy (GDP) or sales to other industries (intermediate inputs). Gross output can also be measured as the sum of an industry's value added and intermediate inputs. Value added (that is, GDP) represents the sum of the costs incurred and the incomes earned in production. It consists of compensation of employees, taxes on production and imports less subsidies, and gross operating surplus. Intermediate inputs are comprised of the value of both foreign and domestically produced goods and services that are used as energy, materials, and purchased services as part of an industry's production process. Taken together, measures of the gross output of each industry, of the purchases of intermediate inputs from other industries, and of value added provide a comprehensive and consistent picture of each industry's performance in the economy.

Because gross output reflects double-counting-it includes both the sales of intermediate inputs and final products-it is often referred to as "gross duplicated output." In contrast, industry value added is defined as the value of the industry's sales to other industries and to final users minus the value of its purchases from other industries. Value added is a nonduplicative measure of production that when aggregated across all industries, equals GDP. Gross output by industry is an essential statistical tool—especially in relation to value added—needed to study and understand the interrelationships of the industries that underlie the overall economy. For some industries, such as manufacturing, goods produced and sold as intermediate inputs to other industries are important components of the final products sold in the economy. However, because of its duplicative nature, gross output may not be a good stand-alone indicator of the overall performance of an industry, and it is an unreliable measure of aggregate business cycles or growth.

For example, the chart illustrates the usefulness of publishing both quarterly gross output and quarterly value added by industry. The peak in real gross output for the manufacturing industry group took place in the fourth quarter of 2007—a quarter later than the peak in real value added. The rebound for gross output began in the third quarter of 2009—also one quarter later than the rebound in real value added. In addition, quarterly gross output has yet to return to its peak level in the fourth quarter of 2007.

Chain-Type Quantity Indexes for the Manufacturing Industry Group, 2005–2013



^{1.} The 22 industry group level roughly corresponds to two-digit industry groups in the North American Industry Classification System (NAICS), and the 69 industry group level roughly corresponds to three-digit NAICS industry groups.

^{2.} This acceleration would speed-up the release of quarterly GDP by industry from 4 months after the reference quarter to 3 months after the reference quarter.

^{3.} This study would include a feasibility study for both nonbenchmark annual GDP and quarterly GDP.

Appendix

Methodology

The methodology used to prepare the quarterly GDP by industry statistics can be described in five steps:

Domestic supply by commodity. The domestic supply of each commodity is the total value of goods and services available for use as intermediate inputs by industries or as final uses. Domestic supply represents the value of goods and services (commodities) produced by domestic firms, plus imports and government sales, less exports, and changes in inventory. The output of most commodities and industries were developed using a wide array of source data including monthly and quarterly surveys from the U.S. Census Bureau, regulatory data on financial institutions, data on industrial production for mining and manufacturing from the Federal Reserve, and a variety of trade source data. Changes in private inventories by commodity were based on data from the NIPAs. Exports and imports were based on international trade statistics from the Census Bureau and on data from the BEA's international transactions accounts. Before these data are incorporated, they are tested and adjusted for seasonality using the Census Bureau's X-13 seasonal adjustment process.

Value added by industry. Value added by industry represents the costs incurred and the incomes earned in production, and it consists of compensation of employees by industry, taxes on production and imports less subsidies, and gross operating surplus. Current-dollar values of compensation and taxes on production and imports less subsidies are consistent with the values that make up the domestic income estimates published as part of the NIPAs. Gross operating surplus by industry is derived using both gross output by industry and gross operating surplus from the NIPAs, adjusted to an establishment basis. By using this approach, the estimates of gross operating surplus by industry incorporate quarterly data on profits and related business income measures from the NIPAs and are also influenced by gross output by industry, which is estimated within a balanced input-output framework. This approach makes complete use of the full suite of high-quality quarterly and monthly data that are available in the U.S. economic statistical system. This methodology for measuring the gross operating surplus is largely consistent with the approach used in BEA's integrated industry economic accounts on a benchmark and annual basis.1

Initial use tables. The use table shows the consumption of commodities by industries (intermediate inputs) and by final uses. Intermediate inputs represent the energy, materials and purchased services inputs that are used in each industry's production process. Final uses represent the market value of final output that is available for consumption by persons and by nonprofit institutions serving households, as business investment in goods, services, and structures, as government consumption and investment, and as net exports. The initial use table for each quarter in a given year is constructed using the available annual use table for that year. During annual revisions, the use table that underlies the published quarterly statistics is used as the initial estimate. These values then adjust as part of the process to balance the use table.2

Balanced use tables. The use table is balanced using a biproportional adjustment procedure that sequentially adjusts the columns and rows of the use table to a set of predetermined controls, including value added by industry, final expenditures by category from the NIPAs, and GDP as measured as the sum of final expenditures.³ Balancing also ensures that the sum of value added by industry equals GDP, intermediate inputs by commodity and final use of commodities are consistent with domestic supply by commodity, and intermediate inputs and value added by industry are consistent with gross output by industry. Intermediate inputs and the commodity composition of final uses are subject to adjustment during the balancing process (chart 6).

Price and quantity indexes for GDP by industry. Price and quantity indexes for GDP by industry are

^{1.} In the annual statistics, the gross operating surplus is derived using business income data that underlie the measure of gross domestic income published in the NIPAs. These annual statistics are based mostly on business tax data from the Internal Revenue Service. On a quarterly basis, the available source data is incomplete and the level of industry detail is more limited.

^{2.} For annual statistics, BEA uses annual business expense data by industry collected by the Census Bureau in its Services Annual Survey and its Annual Survey of Manufacturers. The Census Bureau provides data on industries' expenses on nine intermediate expense categories. In the use table, the commodity inputs of an industry are controlled to these broad expense categories during the balancing process, which allows for a more accurate distribution of the use of intermediate inputs across industries. These data are unavailable on a quarterly basis.

^{3.} The balancing incorporates over 350 final expenditure categories as published in the NIPAs.

Appendix

prepared in three steps. First, indexes are derived for gross output by deflating each commodity produced by an industry that is included as part of its gross output from the input-output make table. Second, indexes for intermediate inputs are derived by deflating all commodities that are consumed by an industry as intermediate inputs from the use table. Domestic and international sources of intermediate inputs are deflated separately through the use of the import proportionality, or comparability, assumption. Third, indexes for value added by

industry are calculated using the double-deflation method in which real value added is computed as the difference between real gross output and real intermediate inputs within a Fisher index-number framework.⁴

Chart 6. Quarterly Input-Output Use Table

	t of Quartorly in	· 			Industries					Final ov	penditures		
			T	T	muusme	1	1			Fillal ex		ı	Commodity
		Agri- culture	Mining	Manu- facturing	Trade	Transpor- tation	Services	Govern- ment	PCE	Invest- ment	Govern- ment	Net exports	gross output
	Agriculture												
	Mining												
ities	Manufacturing		NIPA final expenditures										
Commodities	Trade		lr	nitial values	reflect ann	ual use tab	oles			NIFA IIIIAI	Make table		
Con	Transportation		А	djusts durir	g balancing of use table								
	Services												
	Government												
	Compensation			NIDA i	ncome by	inductry							
-	TOPI			INITA	iconie by	iriuustiy							
Value added	Gross operating surplus			ombination ating surplu									
	Industry gross output				Make tabl	e							Total gross output

National income and product accounts controls

(Industry economic accounts provides commodity composition for the final expenditures.)

Industry economic accounts controls

NIPA National income and product accounts

PCE Personal consumption expenditures

TOPI Taxes on production and imports less subsidies

^{4.} Quarterly estimates are interpolated to annual controls using the modified Denton proportional first difference method. This method preserves the pattern of growth in quarterly indicator series by minimizing the proportional period-to-period change while meeting the average annual level constraints. For more information, see Baoline Chen and Stephen H. Andrews, "An Empirical Review of Methods for Temporal Distribution and Interpolation in the National Accounts," Survey of Current Business 88 (May 2008): 33–39.

Principal Sources of Data

C. Principal Sources of Data for Quarterly Industry and Commodity Output and Prices—Continues

Industry and commodity	Source data for quarterly current-dollar statistics	Source data for prices
Agriculture, forestry, fishing, Farms	and hunting Farm output from the national income and product accounts (NIPAs) that is based on U.S. Department of Agriculture (USDA) data.	NIPA prices based on USDA price indexes received by farmers.
Forestry, fishing, and related activities	For forestry, Federal Reserve Board (FRB) industrial production index (IPI) and Bureau of Labor Statistics (BLS) producer price index (PPI); for fishing, commercial fishery landings data from the National Oceanic and Atmospheric Administration.	BLS PPI and USDA/National Agricultural Statistics Service unit prices.
Mining	' 	'
Oil and gas extraction	FRB IPI and BLS PPI.	BLS PPI.
Mining, except oil and gas	FRB IPI and BLS PPI.	BLS PPI.
Support activities for mining	FRB IPI, BLS PPI, and NIPA fixed investment in mining exploration based on trade source data.	BLS PPI and NIPA prices based on trade source data.
Utilities	For electric power generation, transmission and distribution, Energy Information Administration (EIA) form 826; for natural gas distribution, EIA form 857; for water, sewage, and other systems, Census Bureau quarterly services survey (QSS).	BLS consumer price index (CPI) and BLS PPI.
Construction Residential	NIPA fixed investment in structures based on Census Bureau construction spending (value-put-in-place) survey.	Census Bureau price deflator for new single-family houses under construction and Bureau of Economic Analysis (BEA) prices for multifamily home construction.
Nonresidential	NIPA fixed investment in structures based on Census Bureau construction spending (value-put-in-place) survey.	BEA composite prices based on trade source data and on data from the Bureau of Reclamation and BLS PPI.
Manufacturing	Census Bureau manufacturers' shipments, inventories, and orders survey (M3) and NIPA electronic computer shipments; for petroleum products, EIA production data and BLS PPI.	BLS PPI, NIPA prices based on Department of Defense (DOD) price paid for military equipment, and NIPA hedonic prices.
Wholesale trade	Census Bureau monthly wholesale trade survey data.	BLS PPI and NIPA wholesale sales deflators.
Retail trade	Census Bureau monthly retail trade survey data.	BLS PPI and NIPA prices.
Transportation and warehousing	For air transportation, NIPA personal consumption expenditures (PCE) and Census Bureau QSS data; for rail transportation, Surface Transportation Board freight earnings data; for water, truck, transit and ground passenger, and pipeline transportation and for warehousing, Census Bureau QSS data.	For air transportation, BLS PPI, Bureau of Transportation Statistics price deflators, and NIPA PCE prices; for rail, BLS PPI for rail passenger transportation and BLS PPI for freight; for water transportation, BLS PPI, BLS CPI, and trade source data; for truck transportation, BLS PPI; for transit and ground passenger transportation, NIPA PCE prices and BLS PPI; for pipeline transportation, BLS PPI; for warehousing, BLS PPI; for other transportation and support activities, NIPA PCE prices and BLS PPI.
Information	Census Bureau QSS data, BLS quarterly census of employment and wages (QCEW), and box office revenues from trade source data.	For publishing industries (including software), BEA prices for software and BLS PPI; for information and data processing, NIPA PCE prices and BLS PPI.
Finance and insurance Federal Reserve banks, credit intermediation, and related activities	Census Bureau QSS data, Federal Deposit Insurance Corporation commercial bank call report data, FRB data, National Credit Union Administration data, and NIPA measures of financial services indirectly measured.	NIPA PCE prices.
Securities, commodity contracts, and investments	Census Bureau QSS data and Securities and Exchange Commission FOCUS reports.	BLS PPI and NIPA PCE prices.
Insurance carriers and related activities	NIPA PCE, Census Bureau QSS data, and trade source data.	BLS PPI and NIPA PCE prices.
Funds, trusts, and other financial vehicles	NIPA PCE and NIPA imputed service charges for other financial institutions.	NIPA PCE prices.

Principal Sources of Data

C. Principal Sources of Data for Quarterly Industry and Commodity Output and Prices—Table Ends

Source data for quarterly current-dollar statistics	Source data for prices
asing	
For residential dwellings, NIPA PCE, NIPA housing data, and NIPA private fixed investment; for nonresidential dwellings, NIPA government receipts, BEA foreign expenditures from the international transactions accounts, and BLS QCEW data.	For residential dwellings, NIPA PCE prices and NIPA implicit price deflators for farm rents paid; for nonresidential dwellings, BLS PPI and NIPA implicit price deflators for nonprofit imputed rents.
For rental and leasing services, Census Bureau QSS data and NIPA PCE and rental income.	BLS PPI and NIPA prices.
Census Bureau QSS data; for veterinary services, NIPA PCE.	For legal services, BLS PPI and NIPA PCE prices; for computer systems design and related services, NIPA prices for prepackaged, custom and own-account software; for miscellaneous services, BLS PPI, BLS QCEW data, and NIPA PCE prices.
BLS QCEW data.	BLS PPI.
Census Bureau QSS data and BLS QCEW data.	BLS PPI and NIPA PCE prices.
NIPA PCE.	NIPA PCE prices based on trade source data for input costs.
NIPA PCE.	For ambulatory health care services, NIPA PCE prices based on BLS CPI and BLS PPI; for hospitals and nursing and residential care facilities, NIPA PCE prices based on BLS CPI and Center for Medicare and Medicaid Services; for social assistance, NIPA PCE prices based on trade source data.
Census Bureau QSS data.	NIPA PCE prices.
NIPA PCE data.	For accommodations, BLS PPI and NIPA PCE prices; for food services, NIPA PCE prices.
For automotive repair, BLS QCEW data; for personal services, NIPA PCE data; for private households, NIPA compensation.	NIPA PCE prices.
NIPA government expenditure statistics.	NIPA prices based on BLS PPI, BLS CPI, DOD data on employment and prices, BLS employment cost indexes, and construction cost indexes from trade source data.
U.S. Postal Service quarterly reports, EIA monthly data for electric utility sales and revenue data for publicly owned utilities, and NIPA PCE data for broader aggregates for other components.	BLS PPI and NIPA PCE prices.
1	I
NIPA government expenditure statistics.	NIPA prices.
NIPA statistics on government enterprises based on the Census Bureau annual survey of government finances; for Alaskan ferries, waterports, and airports, Alaska Railroad Administration; for electric utilities, EIA data; for state and local government structures, Census Bureau construction spending (value-put-in-place) survey.	BLS PPI.
	Ising For residential dwellings, NIPA PCE, NIPA housing data, and NIPA private fixed investment; for nonresidential dwellings, NIPA government receipts, BEA foreign expenditures from the international transactions accounts, and BLS QCEW data. For rental and leasing services, Census Bureau QSS data and NIPA PCE and rental income. Census Bureau QSS data; for veterinary services, NIPA PCE. BLS QCEW data. Census Bureau QSS data and BLS QCEW data. NIPA PCE. NIPA PCE. Census Bureau QSS data. NIPA PCE data. For automotive repair, BLS QCEW data; for personal services, NIPA PCE data; for private households, NIPA compensation. NIPA government expenditure statistics. U.S. Postal Service quarterly reports, EIA monthly data for electric utility sales and revenue data for publicly owned utilities, and NIPA PCE data for broader aggregates for other components. NIPA government expenditure statistics. NIPA statistics on government enterprises based on the Census Bureau annual survey of government finances; for Alaskan ferries, waterports, and airports, Alaska Railroad Administration; for electric utilities, EIA data; for state and local government structures, Census Bureau construction

Table 1. Percent Changes in Real Value Added by Industry Group, 2011–2013

[Seasonally adjusted at annual rates]

Line			20	11			20	12			20	13	
Line		I	II	III	IV	_	II	III	IV	I	II	III	IV
1	Gross domestic product	-1.3	3.2	1.4	4.9	3.7	1.2	2.8	0.1	1.1	2.5	4.1	2.6
2 3 3 4 4 5 5 6 6 7 7 7 8 8 9 9 100 111 122 133 144 155 166 177 18 20 21 22 23 24 25 266 27	Private industries Agriculture, forestry, fishing, and hunting Mining. Utilities. Construction. Manufacturing Durable goods. Wholesale trade Retail trade Transportation and warehousing Information Finance, insurance, real estate, rental, and leasing. Finance and insurance. Real estate and rental and leasing Professional and business services Professional and business services Administrative and waste management services Administrative and waste management services Educational services, health care, and social assistance Educational services. health care, and social assistance Arts, entertainment, recreation, accommodation, and food services. Arts, entertainment, ercreation Accommodation and food services. Other services, except government	-2.0 1.7 1.52 -6.9 -3.4 -6.1 -3.1 -3.0 -4.9 -3.0 -5.1 -3.2 -1.8 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	3.0 -24.8 14.6 26.4 8.4 0.2 -1.1 -0.4 4.5 4.7 2.1 -7.4 7.2 6.3 6.87 5.8 2.5 2.7 5.8 2.7 5.8 2.7 5.8 2.7 5.8 2.7 5.8 2.7 5.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.0 7.3 23.3 0.0 2.4 -0.7 5.5 -7.0 -2.1 6.1 2.3 2.8 2.8 2.8 2.6 3.7 -6.6 -6.1.9 2.4 2.6 3.1.9 0.4	5.6 35.1 26.5 19.5 1.4 9.3 10.1 8.4 17.7 1.9 0.8 3.3 -2.6 6.3 3.3 2.5 2.4 0.0 -0.6 -0.2 1.0 2.8 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	3.7 -0.7 5.99 -19.4 11.8 5.8 4.7 6.9 -3.3 6.7 9.1 -2.5 -2.8 -2.8 19.6 6.5 7.7 6.4 8.0 8.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	1.1 5.2 13.6 -2.3 -3.6 -7.5 -6.5 -7.9 -6.5 -7.9 -6.5 -1.2 -1.9 -1.1 -1.1 -1.1 -3.1 -3.5	2.8 -25.1 8.3 7.0 0.5 -2.4 1.5 -6.6 2.1 14.7 2.7 1.9 4.8 4.9 4.8 4.5 3.2 10.1 1.1 0.5 2.1 -0.3 0.0 -0.4 2.2	0.3 -23.7 9.3 -2.4 7.8 -3.4 -2.9 0.4 -11.4 -2.5 -1.1 0.9 3.1 0.7 3.5 8.2 23.1 0.9 3.1 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	1.5 133.4 -155.3.7 -3.1 8.8 -0.5 20.2 0.8 6.4 2.5 -2.5 -8.4 0.7 -10.1 -9.8 6.0 2.5 -5.0 3.7 3.7 4.0 4.0 4.0	3.0 7.9 10.9 2.7 2.9 5.1 0.3 10.8 1.2 -1.5 -1.7 4.8 4.2 10.8 2.4 0.8 2.4 0.2 1.0 -1.7 2.9 -2.9	5.0 13.3 0.25 6.6 4.0 5.1 2.9 7.3 4.7 4.9 7.7 4.0 0.3 6.0 2.2 1.5 -0.2 0.2	3.5 -7.0 10.3 -5.9 10.4 3.5 18.6 6.9 -2.4 2.4 6.1 0.2 -0.2 -0.3 7.0 5.9 12.2 6.0 1.6 -1.0 2.0 7.8 8.8 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5
28 29 30	Government Federal State and local	−0.3 0.7 − 0.7	-0.1 0.2 -0.3	-0.9 -1.1 -0.9	0.1 -0.2 0.3	0.6 -0.6 1.2	-1.3 -2.2 -0.9	0.6 -1.4 1.5	-0.7 -2.2 0.0	-1.6 -3.5 -0.7	-1.2 -3.2 -0.3	-1.3 -5.5 0.7	-2.0 -6.0 0.0
31 32	Addenda: Private goods-producing industries ¹ Private services-producing industries ²	-3.8 -1.5	1.4 3.5	3.2 1.7	11.5 3.8	6.4 2.9	-0.5 1.5	-2.2 4.3	-1.3 0.8	8.9 -0.7	5.7 2.2	4.7 5.1	5.9 2.8

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table 2. Contributions to Percent Change in Real GDP by Industry Group, 2011–2013

[Seasonally adjusted at annual rates]

Lina			20	11			20	12			20	13	
Line		1	II	III	IV	I	II	III	IV	I	II	III	IV
	Percent change at annual rate:												
1	Gross domestic product	-1.3	3.2	1.4	4.9	3.7	1.2	2.8	0.1	1.1	2.5	4.1	2.6
3 4 4 5 5 6 6 7 7 8 8 9 9 10 11 1 12 13 3 14 4 15 16 6 17 7 18 19 20 21 22 23 24 25 26 27	Private industries Agriculture, forestry, fishing, and hunting Mining. Utilities. Construction Manufacturing Durable goods. Wholesale trade Retail trade Transportation and warehousing Information Finance, insurance, real estate, rental, and leasing Finance and insurance. Real estate and rental and leasing Professional and business services Management of companies and enterprises. Administrative and waste management services Educational services, health care, and social assistance Educational services. Health care and social assistance Arts, entertainment, recreation, accommodation, and food services. Other services, except government Government Federal. State and local	-1.72 0.02 -0.04 -0.30 -0.26 -0.41 -0.09 -0.32 -0.18 0.02 -0.09 -0.19 -0.62 0.06 0.17 -0.02 0.00 0.08 -0.05 0.11 -0.02	2.57 -0.36 0.35 0.42 0.28 0.05 0.08 -0.02 -0.02 0.01 0.12 0.39 -0.51 0.89 0.72 0.45 0.10 0.17 0.20 0.01 0.19 0.20 0.05 0.10 0.00	1.73 0.09 0.05 0.00 0.08 -0.07 0.34 -0.41 -0.13 0.03 -0.07 0.28 0.43 0.26 0.26 0.26 0.20 0.01 0.11 0.01 0.02 0.01 0.02 0.01	4.78 0.39 0.65 0.33 0.05 1.14 0.64 0.50 0.97 0.11 0.06 0.04 0.66 -0.17 0.83 0.38 0.17 0.09 0.12 -0.05 -0.04 -0.01 0.04 -0.03 0.07 0.01 0.02 -0.01	3.16 -0.01 0.16 -0.38 0.40 0.69 0.30 0.38 -0.20 0.35 0.19 0.42 -0.48 -0.18 -0.30 0.99 0.47 0.33 0.19 0.62 0.07 0.55 0.28 0.05 0.23 0.12 0.08	0.93 0.07 0.34 0.15 -0.08 -0.43 0.04 -0.47 -0.66 -0.19 0.37 1.25 0.14 0.08 0.03 0.02 -0.09 -0.01 -0.01 -0.10 -0.10 -0.10 -0.10 -0.10	2.41 -0.36 0.21 0.02 -0.32 0.10 -0.42 0.12 0.79 0.08 0.09 0.94 0.32 0.62 0.53 0.23 0.18 0.12 0.15 -0.01 0.05 0.08 -0.06	0.28 -0.33 0.23 -0.04 0.27 -0.44 0.01 -0.17 0.01 -0.57 0.02 0.17 -0.15 0.98 0.55 0.40 0.03 0.26 0.01 0.25 0.23 0.00 0.23 0.00 0.23 0.00 0.23	1.28 1.21 -0.44 0.06 -0.11 1.06 -0.13 1.09 0.05 0.35 0.07 0.55 -0.50 -0.59 0.09 -1.27 -0.73 -0.35 -0.19 0.20 0.06 0.26 0.13 0.02 0.11 -0.10 -0.21 -0.15	2.63 0.13 0.27 -0.05 0.10 0.63 0.02 0.61 0.07 -0.08 -0.05 0.13 0.92 0.74 0.20 0.07 0.07 0.00 0.07 -0.06 0.03 -0.05 0.03 -0.05	4.30 0.20 0.01 0.06 0.24 0.50 0.33 0.17 0.42 0.27 0.14 0.36 0.79 0.03 0.77 1.15 0.36 0.18 0.18 0.03 0.15 0.01 0.01 0.01 0.02	3.07 -0.11 0.27 0.01 -0.22 1.23 0.23 1.01 0.40 -0.14 0.07 0.29 0.03 -0.01 0.05 0.82 0.41 0.23 0.18 0.01 0.18 0.28 0.00 0.01 -0.25 -0.25 -0.25 -0.00
31 32	Addenda: Private goods-producing industries ¹ Private services-producing industries ²	-0.69 -1.03	0.32 2.26	0.66 1.07	2.23 2.55	1.24 1.92	-0.10 1.03	-0.45 2.85	-0.26 0.54	1.72 -0.44	1.14 1.49	0.95 3.36	1.17 1.90

services, except government.

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because the contribution of the "Not allocated by industry" line is excluded.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other

Table 3. Percent Changes in the Chain-Type Price Indexes for Value Added by Industry Group, 2011–2013

[Seasonally adjusted at annual rates]

Line			20	11			20	12			20	13	
Line		Ĺ	II	III	IV	I	II	III	IV	I	II	III	IV
1	Gross domestic product	1.6	2.6	2.5	0.5	2.0	1.8	2.3	1.1	1.3	0.6	2.0	1.6
3 4 4 5 5 6 6 7 7 8 8 9 9 100 111 122 133 144 155 156 177 188 199 200 21 222 233 244 255 26	Private industries Agriculture, forestry, fishing, and hunting Mining Utilities Construction. Manufacturing Durable goods. Nondurable goods. Wholesale trade Retail trade Transportation and warehousing. Information Finance, insurance, real estate, rental, and leasing. Finance and insurance. Real estate and rental and leasing. Professional and business services Professional, scientific, and technical services. Management of companies and enterprises. Administrative and waste management services Educational services, health care, and social assistance Educational services, health care, and social assistance Educational services. Health care and social assistance Arts, entertainment, recreation, accommodation, and food services. Arts, entertainment, and recreation Accommodation and food services.	2.3 68.2 27.5 3.0 -1.1 3.0 -1.7 4.4 1.1 3.6 -1.4 -0.2 -2.1 0.2 2.0 0.2 2.0 0.2 3.9 0.4 2.3 0.1 -1.6 1.6 -2.8	3.4 18.0 26.7 -3.3 1.0 7.9 -1.1 18.7 9.1 3.0 0.8 0.4 1.1 -0.1 0.8 -2.8 -0.5 1.6 3.0 0.1 0.8	2.4 14.2 -15.2 2.5 -0.2 12.16 2.5 3.8 4.8 3.5 5.5 2.6 4.6 4.6 4.6 4.5 3.8 1.1 -0.2	0.8 -20.5 -3.11 -8.9 3.9 -1.5 2.8 -6.0 -5.8 4.5 7.6 2.7 2.1 3.0 -1.2 -0.2 5.8 2.4 2.9 1.1 3.5	2.4 1.6 -3.3 -8.0 0.7 2.6 1.4 4.0 11.7 -0.2 -0.3 3.7 5.8 2.7 2.4 1.9 1.4 3.2 4.4 4.7	2.4 -3.7 -27.0 1.5 3.7 3.7 8.0 -2.2 11.4 13.6 2.6 3.3 2.2 -1.5 3.9 2.3 5.5 6.6 6.6	2.8 14.3 -4.6 -1.4 13.3 11.5 2.2 22.6 5.1 -9.9 -0.7 -0.3 3.9 2.4 2.1 1.2 6.0 1.7 1.6 2.1 1.5 4.2 4.4	1.4 30.0 3.1 -0.6 -1.9 -1.1 -2.8 5.46 -0.4 -0.1 -2.2 2.2 2.3 -0.1 -1.3 2.0 9 3.5 -3.1 -0.4 -0.9	1.9 76.1 9.2 2.5 5.9 -5.0 2.8 -13.0 2.6 4.9 1.2 3.5 9.5 1.6 5.1 1.1 -0.3 1.7	0.5 -19.6 6.00 9.0 4.8 -5.9 2.2 -14.2 1.3 3.6 3.1 1.1 1.8 2.0 -1.9 3.0 1.4 4.2 1.0 5.8 1.3	2.1 -11.0 23.3 -4.6 2.8 2.0 2.0 1.9 3.6 1.5 0.4 -3.5 3.1 3.9 2.7 -0.4 1.2 -8.7 1.1 2.7 6.2 5.5 6.2	1.0 -18.5 -19.4 10.5 -2.3 -0.7 -0.0 0.5 3.1 2.6 -0.8 -0.1 -5.4 0.4 -0.7 1.5 -1.5
27 28 29 30	Other services, except government Government Federal State and local	1.6 0.9 2.4 0.2	3.2 2.3 2.3 2.4	2.1 1.8 1.9 1.7	2.5 -0.6 -0.3 -0.7	1.8 2.5 0.6 3.5	3.1 1.5 0.8 1.8	2.5 -0.5 -0.5 -0.5	1.7 1.1 0.1 1.5	4.7 1.0 2.7 0.3	2.8 1.0 1.1 0.9	2.7 0.9 0.8 1.0	2.8 4.4 8.9 2.4
31 32	Addenda: Private goods-producing industries ¹ Private services-producing industries ²	8.3 0.6	9.6 1.6	2.8 2.3	-2.1 1.6	1.4 2.7	-0.3 3.2	7.6 1.5	0.7 1.7	3.1 1.5	-3.8 1.9	3.6 1.7	-2.2 1.9

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table 4. Contributions to Percent Change in the GDP Price Index by Industry Group, 2011–2013

[Seasonally adjusted at annual rates]

Line			20	11			20	12			20	13	
Line		-	II	III	IV	Ţ	Ш	III	IV	I	II	III	IV
	Percent change at annual rate:												
1	Gross domestic product Percentage points at annual rates:	1.6	2.6	2.5	0.5	2.0	1.8	2.3	1.1	1.3	0.6	2.0	1.6
2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 111 12 133 14 4 15 16 6 17 7 18 19 20 21 22 23 24 4 25 26 27 28 29 29	Agriculture, forestry, fishing, and hunting Mining Utilities Construction Manufacturing Durable goods Nondurable goods Wholesale trade Retail trade Transportation and warehousing Information Information Finance, insurance, real estate, rental, and leasing Finance and insurance. Real estate and rental and leasing Professional and business services Professional scientific, and technical services Management of companies and enterprises. Administrative and waste management services Educational services, health care, and social assistance Educational services. Health care and social assistance Arts, entertainment, recreation, accommodation, and food services. Arts, entertainment, and recreation Accommodation and food services. Other services, except government	1.96 0.63 0.58 -0.04 0.36 -0.06 0.42 0.26 0.07 0.11 -0.03 -0.13 0.11 0.00 0.03 0.01 -0.02 -0.07 0.03 0.01 -0.03	2.90 0.22 0.611 -0.06 0.04 0.93 30.07 1.000 0.52 0.18 0.01 0.07 0.17 0.03 0.14 -0.05 -0.02 0.14 0.03 0.10 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.0	2.05 0.17 -0.44 0.04 0.15 0.66 -0.01 0.15 0.11 -0.23 0.30 0.30 0.10 0.08 0.12 0.12 0.04 0.08 0.08 0.09 0.00 0.00 0.00 0.00 0.00	0.66 -0.29 -0.09 -0.17 0.13 -0.19 0.18 -0.37 -0.35 0.26 0.21 0.19 0.52 0.13 0.39 0.04 0.07 -0.02 -0.01 0.23 0.06 0.17 0.10 0.09 0.05 -0.08	2.08 0.02 -0.09 -0.14 0.02 0.32 0.66 -0.01 0.00 -0.02 0.72 0.37 0.35 0.28 0.13 0.01 0.14 0.12 0.04 0.08 0.16 0.04 0.04 0.04 0.05 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.00 0.	2.03 -0.05 -0.84 0.03 0.13 0.70 0.24 0.46 -0.13 0.62 0.38 0.08 0.50 0.22 0.29 0.13 0.15 -0.03 0.01 0.21 0.04 0.16 0.20 0.03 0.17 0.07	2.45 0.17 -0.12 -0.02 0.05 1.39 0.14 1.24 0.29 -0.01 0.76 0.45 0.31 0.05 0.13 0.05 0.11 0.05 0.11 0.05 -0.07 -0.07 -0.07	1.25 0.32 0.08 0.05 -0.02 -0.24 -0.07 -0.17 0.31 -0.01 -0.01 -0.02 0.07 0.07 0.04 -0.02 0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.07	1.61 0.82 0.23 0.04 0.21 -0.65 0.18 -0.83 0.01 -0.15 0.14 0.06 0.20 -0.09 0.42 0.11 0.18 0.13 0.13 0.01 0.18 0.09 0.29 0.42 0.11 0.18 0.19 0.19 0.20 0.20 0.20 0.20 0.20 0.10 0.	0.46 -0.36 0.15 0.17 -0.76 0.14 -0.90 0.09 0.03 0.10 -0.14 0.24 0.23 0.18 -0.04 0.09 0.11 0.05 0.07 0.21 0.00 0.05	1.85 -0.19 0.57 -0.08 0.10 0.24 0.13 0.11 0.21 0.09 0.01 -0.17 0.61 0.26 0.08 -0.18 0.05 0.22 0.01 0.21 0.22 0.05 0.17 0.05 0.17 0.06 0.12 0.05	0.84 -0.31 -0.59 0.09 0.37 0.09 0.23 -0.14 -0.04 0.28 0.17 0.02 0.61 0.15 0.46 -0.09 0.01 -0.11 0.01 0.21 0.04 0.05 0.04 0.05
30	State and local	0.02	0.23	0.16	-0.06	0.32	0.16	-0.05	0.14	0.02	0.08	0.09	0.21
31 32	Addenda: Private goods-producing industries 1 Private services-producing industries 2	1.54 0.43	1.80 1.10	0.54 1.51	-0.44 1.09	0.27 1.81	-0.05 2.09	1.48 0.98	0.13 1.12	0.61 0.99	-0.80 1.26	0.73 1.12	-0.44 1.28

services, except government. Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because the contribution of the "Not allocated by industry" line is excluded.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other

Table 5. Value Added by Industry Group, 2011-2013

[Billions of dollars, seasonally adjusted at annual rates]

Line			20	11			20	12			20	13	
Line		I	II	III	IV	-	II	III	IV	I	II	III	IV
1	Gross domestic product	15,242.9	15,461.9	15,611.8	15,818.7	16,041.6	16,160.4	16,356.0	16,420.3	16,535.3	16,661.0	16,912.9	17,089.6
2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 0 11 1 12 2 13 3 14 4 15 5 16 6 2 2 2 2 3 2 4 2 5 5 2 6 6 2 7	Private industries Agriculture, forestry, fishing, and hunting. Mining. Utilities. Construction. Manufacturing. Durable goods. Wholesale trade Retail trade Transportation and warehousing. Information Finance, insurance, real estate, rental, and leasing. Finance and insurance. Real estate and rental and leasing Professional and business services Professional and the thick and th	13,088.6 196.1 374.2 267.4 530.7 1,875.4 992.2 887.8 882.2 440.5 729.8 2,963.0 1,015.2 1,947.6 1,795.2 281.6 454.0 1,265.4 1,715.5 1,094.0 551.8 146.7 405.0 333.6	13,295.6 190.3 410.7 281.1 542.8 1,911.6 992.3 919.3 906.6 889.2 445.7 740.9 2,984.3 997.2 1,987.1 1,878.1 1,078.4 1,2	13,441.0 200.3 415.3 282.7 551.8 1,934.1 1,005.2 928.9 909.7 896.3 447.4 742.8 3,027.2 1,017.8 2,009.4 1,836.7 1,290.8 466.5 1,290.8 4175.3 1,115.5 567.2 153.0 414.2 338.7	13,650.2 204.0 437.0 288.7 559.0 1,970.4 1,036.9 933.5 933.4 910.6 457.8 3,072.5 1,016.1 2,056.4 470.9 1,297.8 1,121.6 572.7 152.3 420.4	13,856.3 204.6 439.8 267.8 5,011.3 2,011.3 951.5 923.8 465.1 767.6 3,081.2 1,023.1 1,203.1 1,121.3 297.8 484.0 1,326.9 180.3 1,146.6 590.2 156.1 434.1 347.6	13,974.6 205.3 419.7 275.0 577.7 2,022.6 1,063.8 958.8 953.7 922.2 472.3 785.6 3,151.2 1,071.4 1,130.7 298.0 485.3 1,331.8 1,315.0 3,593.5 1,56.7 436.8 349.9	14,169.9 197.5 423.2 278.7 1,073.7 992.0 970.6 929.7 474.6 788.7 3,219.5 1,102.5 2,117.0 1,945.1 1,143.1 309.7 492.2 1,343.3 182.8 1,160.6 599.1 158.4 440.7	14,232.4 197.1 436.0 279.1 590.4 2,037.8 2,037.8 966.5 974.9 935.6 474.6 765.0 3,238.2 1,115.2 496.0 1,356.7 184.6 1,172.2 603.5 158.2 445.3 356.6	14,350.5 280.7 427.4 283.4 594.3 2,054.6 1,077.3 977.2 944.0 483.3 790.2 3,225.9 1,087.6 2,138.3 1,951.6 1,140.0 317.9 493.7 1,370.5 1,86.1 610.5 1,59.0 451.6	14,477.5 270.9 445.1 287.5 605.6 2,049.0 1,083.9 965.1 983.2 948.7 485.0 797.0 3,267.9 1,113.9 2,154.0 1,984.1 1,159.1 324.6 500.4 1,378.0 186.3 1,191.7 616.6 456.0 359.0	14,731.7 271.5 469.2 286.6 619.7 2,079.3 1,102.7 976.6 1,009.5 963.4 491.3 804.7 3,325.9 1,125.6 2,200.3 2,027.6 1,185.9 1,394.6 626.3 1,394.6 626.3 1,394.6 626.3 1,63.3 463.0 362.0	14,895.6 253.3 455.6 290.7 625.8 2,135.1 1,121.9 1,013.3 1,024.8 817.6 3,353.1 1,131.8 2,058.1 1,203.4 337.0 517.6 1,408.9 189.3 1,219.5 637.0 167.3 469.7
28 29 30	Government Federal State and local	2,154.3 711.2 1,443.1	2,166.3 715.7 1,450.6	2,170.8 717.2 1,453.6	2,168.5 716.3 1,452.2	2,185.3 716.2 1,469.0	2,185.8 713.7 1,472.1	2,186.1 710.3 1,475.7	2,187.9 706.6 1,481.3	2,184.8 705.0 1,479.8	2,183.5 701.2 1,482.3	2,181.3 692.7 1,488.6	2,194.0 696.8 1,497.1
31 32	Addenda: Private goods-producing industries 1 Private services-producing industries 2	2,976.4 10,112.2	3,055.5 10,240.1	3,101.5 10,339.5	3,170.4 10,479.8	3,231.4 10,624.9	3,225.4 10,749.2	3,266.7 10,903.3	3,261.3 10,971.1	3,357.1 10,993.4	3,370.6 11,106.9	3,439.7 11,291.9	3,469.9 11,425.7

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table 6. Chain-Type Quantity Indexes for Value Added by Industry Group, 2011–2013

[2009=100, seasonally adjusted at annual rates]

2 Private 3 Agric 4 Agric 5 Utilit 6 Cons 7 Mann 8 D 9 Nc 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 R 17 Profe 17 Profe 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	ross domestic product	100.252 96.653 106.115 93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	104.115 103.978 93.348 99.994 112.510 95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707 102.358	104.468 104.497 95.017 105.370 112.516 95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	1V 105.716 105.921 102.447 111.739 117.643 96.070 109.232 122.547 96.462 107.601 103.811 109.725 107.495	106.683 106.879 102.258 113.355 111.453 98.792 110.776 123.951 98.094 106.695 105.361 111.512	107.003 107.165 103.569 117.031 114.000 98.228 109.861 124.151 96.213 107.537 102.370 109.656	107.741 107.903 96.342 119.375 115.954 98.343 109.196 124.620 94.597 108.093 110.385	1V 107.780 107.989 90.029 122.061 115.245 100.218 108.244 124.690 92.816 107.155 105.152	108.087 108.387 111.280 117.043 116.288 99.437 110.558 124.535 97.176 107.359 106.790	II 108.751 109.200 113.416 120.121 115.491 100.139 111.948 124.621 99.697 107.672	120.178 116.502 101.763 113.056 126.166 100.403	IV 110.572 111.498 114.895 123.158 116.599 100.232 115.881 127.247
2 Private 3 Agric 4 Minim 5 Utilities 6 Cons 7 Mann 9 No 11 Reta 12 Trans 14 Final 15 Final 15 Final 15 Final 15 Final 20 Ac 21 Educ 22 Educ 23 He 24 Arts, 25 Ar	industries. pulture, forestry, fishing, and hunting	103.212 100.252 96.653 106.115 93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	103.978 93.348 99.994 112.510 95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707	104.497 95.017 105.370 112.516 95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	105.921 102.447 111.739 117.643 96.070 109.232 122.547 96.462 107.601 103.811 109.725	106.879 102.258 113.355 111.453 98.792 110.776 123.951 98.094 106.695 105.361 111.512	107.165 103.569 117.031 114.000 98.228 109.861 124.151 96.213 107.537 102.370	107.903 96.342 119.375 115.954 98.343 109.196 124.620 94.597 108.094 105.933	107.989 90.029 122.061 115.245 100.218 108.244 124.690 92.816 107.155 105.152	108.387 111.280 117.043 116.288 99.437 110.558 124.535 97.176 107.359 106.790	109.200 113.416 120.121 115.491 100.139 111.948 124.621 99.697	110.534 117.000 120.178 116.502 101.763 113.056 126.166 100.403	111.498 114.895 123.158 116.599 100.232 115.881
3 Agrica 4 Minimi 5 Utiliti 6 Cons 7 Mani 8 Di 9 Nc 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fit 16 Fit 17 Profe 18 Pr 19 Mc 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	zulture, forestry, fishing, and hunting	100.252 96.653 106.115 93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	93.348 99.994 112.510 95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707	95.017 105.370 112.516 95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	102.447 111.739 117.643 96.070 109.232 122.547 96.462 107.601 103.811 109.725	102.258 113.355 111.453 98.792 110.776 123.951 98.094 106.695 105.361 111.512	103.569 117.031 114.000 98.228 109.861 124.151 96.213 107.537 102.370	96.342 119.375 115.954 98.343 109.196 124.620 94.597 108.094 105.933	90.029 122.061 115.245 100.218 108.244 124.690 92.816 107.155 105.152	111.280 117.043 116.288 99.437 110.558 124.535 97.176 107.359 106.790	113.416 120.121 115.491 100.139 111.948 124.621 99.697	117.000 120.178 116.502 101.763 113.056 126.166 100.403	114.895 123.158 116.599 100.232 115.881
4 Minir 5 Utiliti 6 Cons 7 Mani 8 Di 9 No 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 18 Pr 19 Mo 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	ng. es. struction ufacturing urable goods. ondurable goods. lesale trade il trade il trade sportation and warehousing mation mation	96.653 106.115 93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	99.994 112.510 95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707	105.370 112.516 95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	111.739 117.643 96.070 109.232 122.547 96.462 107.601 103.811 109.725	113.355 111.453 98.792 110.776 123.951 98.094 106.695 105.361 111.512	117.031 114.000 98.228 109.861 124.151 96.213 107.537 102.370	119.375 115.954 98.343 109.196 124.620 94.597 108.094 105.933	122.061 115.245 100.218 108.244 124.690 92.816 107.155 105.152	117.043 116.288 99.437 110.558 124.535 97.176 107.359 106.790	120.121 115.491 100.139 111.948 124.621 99.697	120.178 116.502 101.763 113.056 126.166 100.403	123.158 116.599 100.232 115.881
5 Utiliti 6 Cons 7 Mann 8 Di 9 Nc 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 17 Profe 20 Ac 21 Educ 22 Ec 23 Ht 24 Arts, 25 Ar	es. istruction ufacturing urable goods indurable goods lesale trade il trade sportation and warehousing mation nce, insurance, real estate, rental, and leasing	106.115 93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	112.510 95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707	112.516 95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	117.643 96.070 109.232 122.547 96.462 107.601 103.811 109.725	111.453 98.792 110.776 123.951 98.094 106.695 105.361 111.512	114.000 98.228 109.861 124.151 96.213 107.537 102.370	115.954 98.343 109.196 124.620 94.597 108.094 105.933	115.245 100.218 108.244 124.690 92.816 107.155 105.152	116.288 99.437 110.558 124.535 97.176 107.359 106.790	115.491 100.139 111.948 124.621 99.697	116.502 101.763 113.056 126.166 100.403	116.599 100.232 115.881
6 Cons 7 Mani 8 Di 9 No 10 Who 11 Reta 12 Trans 14 Final 15 Fi 16 Profe 17 Profe 18 Pr 19 Ma 20 Ac 21 Educ 22 Educ 23 He 24 Arts, 25 Ar	struction ufacturing urable goods ondurable goods lesale trade il trade sportation and warehousing mation nce, insurance, real estate, rental, and leasing	93.269 107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	95.160 107.027 118.052 96.250 103.870 103.147 109.822 105.707	95.732 106.829 119.633 94.528 103.309 103.321 109.217 107.276	96.070 109.232 122.547 96.462 107.601 103.811 109.725	98.792 110.776 123.951 98.094 106.695 105.361 111.512	98.228 109.861 124.151 96.213 107.537 102.370	98.343 109.196 124.620 94.597 108.094 105.933	100.218 108.244 124.690 92.816 107.155 105.152	99.437 110.558 124.535 97.176 107.359 106.790	100.139 111.948 124.621 99.697	101.763 113.056 126.166 100.403	100.232 115.881
7 Mani 8 Di 9 No 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Ret 17 Profe 18 Pr 19 Mi 20 Ac 21 Educ 22 Educ 23 He 24 Arts, 25 Ar	ufacturing urable goods ondurable goods lesale trade il trade il trade sportation and warehousing mation ce, insurance, real estate, rental, and leasing	107.025 117.711 96.510 103.966 103.084 108.620 104.502 101.836	107.027 118.052 96.250 103.870 103.147 109.822 105.707	106.829 119.633 94.528 103.309 103.321 109.217 107.276	109.232 122.547 96.462 107.601 103.811 109.725	110.776 123.951 98.094 106.695 105.361 111.512	109.861 124.151 96.213 107.537 102.370	109.196 124.620 94.597 108.094 105.933	108.244 124.690 92.816 107.155 105.152	110.558 124.535 97.176 107.359 106.790	111.948 124.621 99.697	113.056 126.166 100.403	115.881
9 No 10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 18 Pr 20 Ao 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	urable goods. Indurable goods. Iesale trade II trade. II trade. II trade. II mation and warehousing	117.711 96.510 103.966 103.084 108.620 104.502 101.836	118.052 96.250 103.870 103.147 109.822 105.707	119.633 94.528 103.309 103.321 109.217 107.276	122.547 96.462 107.601 103.811 109.725	123.951 98.094 106.695 105.361 111.512	124.151 96.213 107.537 102.370	124.620 94.597 108.094 105.933	124.690 92.816 107.155 105.152	124.535 97.176 107.359 106.790	124.621 99.697	126.166 100.403	
9 No 10 Who 11 Reta 12 Trans 13 Infor 14 Finau 15 Fi 16 Re 17 Profe 18 Pr 19 Mr 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	ondurable goods. lesale trade	96.510 103.966 103.084 108.620 104.502 101.836	96.250 103.870 103.147 109.822 105.707	94.528 103.309 103.321 109.217 107.276	96.462 107.601 103.811 109.725	98.094 106.695 105.361 111.512	96.213 107.537 102.370	94.597 108.094 105.933	92.816 107.155 105.152	97.176 107.359 106.790	99.697	100.403	127.247
10 Who 11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 18 Pr 19 Ms 20 Ac 21 Educ 22 EC 23 He 24 Arts, 25 Ar	lesale trade	103.966 103.084 108.620 104.502 101.836	103.870 103.147 109.822 105.707	103.309 103.321 109.217 107.276	107.601 103.811 109.725	106.695 105.361 111.512	107.537 102.370	108.094 105.933	107.155 105.152	107.359 106.790			
11 Reta 12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 18 Pr 19 M. 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	il tradesportation and warehousing	103.084 108.620 104.502 101.836	103.147 109.822 105.707	103.321 109.217 107.276	103.811 109.725	105.361 111.512	102.370	105.933	105.152	106.790	107 672		104.785
12 Trans 13 Infor 14 Final 15 Fi 16 Re 17 Profe 19 Mr 20 AC 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	sportation and warehousingmation	108.620 104.502 101.836	109.822 105.707	109.217 107.276	109.725	111.512						109.585	111.438
13 Infor 14 Final 15 Fin 16 Re 17 Profe 18 Pr 20 Az 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	mation nce, insurance, real estate, rental, and leasing	104.502 101.836	105.707	107.276			109 656	110 325			106.390	107.627	106.965
14 Final 15 Fi 16 Re 17 Profe 18 Pr 19 Mi 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	nce, insurance, real estate, rental, and leasing	101.836							110.507	111.195	110.709	112.031	112.688
15 Fii 16 Re 17 Profe 18 Pr 19 M 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar			102 358			109.863	111.978	112.500	109.160	112.410	113.169	115.294	117.014
16 Re 17 Profe 18 Pr 19 May 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	nance and insurance			102.942	103.792	103.143	104.810	106.055	106.084	105.413	106.650	107.709	107.751
17 Profe 18 Pr 19 Mi 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar		100.182	98.283	98.975	98.313	97.624	101.423	102.632	103.277	101.024	104.007	104.090	104.033
18 Pr 19 Mi 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	eal estate and rental and leasing	102.695	104.507	105.032	106.696	106.072	106.589	107.856	107.552	107.743	108.037	109.621	109.716
19 Mi 20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	essional and business services		107.339	107.755	108.628	110.905	111.230	112.458	114.785	111.785	113.093	115.693	117.654
20 Ac 21 Educ 22 Ec 23 He 24 Arts, 25 Ar	ofessional, scientific, and technical services		104.985	105.938	106.582	108.362	108.679	109.545	111.717	108.860	109.973	112.183	113.815
21 Educ 22 Ed 23 He 24 Arts, 25 Ar	anagement of companies and enterprises		113.955	112.027	113.458	118.653	119.203	122.094	128.604	122.909	126.097	131.967	135.819
22 Ec 23 He 24 Arts, 25 Ar	Iministrative and waste management services		109.075	109.577	110.669	112.430	112.639	113.771	114.029	112.264	112.938	114.585	116.265
23 He 24 Arts, 25 Ar	cational services, health care, and social assistance	101.084	101.708	102.312	102.152	104.073	103.802	104.285	105.095	105.745	105.958	106.528	106.940
24 Arts, 25 Ar	ducational services	100.823	101.044	101.345	100.430	101.990	101.698	101.836	102.010	100.705	100.653	101.433	101.191
25 Ar	ealth care and social assistance	101.125	101.812	102.465	102.425	104.405	104.137	104.675	105.588	106.559	106.815	107.351	107.871
	entertainment, recreation, accommodation, and food services		108.009	108.898	109.179	111.297	110.428	110.340	112.047	113.032	112.555		114.767
	ts, entertainment, and recreation	106.322 106.608	107.726	110.787	109.995	111.431	111.126	111.127	111.060	111.704	112.493	112.900	115.308
	commodation and food services		108.114	108.216	108.883	111.248	110.178	110.059	112.400	113.508	112.581	112.531	114.580
27 Othe	r services, except government	97.496	97.488	97.732	97.893	99.225	99.107	99.638	99.966	98.863	98.808	98.987	99.084
	nment	100.448	100.423	100.190	100.223	100.372	100.035	100.176	99.996	99.596	99.289	98.965	98.476
	ral	102.737	102.801	102.523	102.468	102.309	101.753	101.390	100.838	99.949	99.127	97.742	96.245
30 State		99.361	99.294	99.081	99.157	99.453	99.220	99.598	99.594	99.425	99.362	99.542	99.533
Adden	and local		1										I
	and local										111.071	112.345	
32 Priva	and local	102.615	102.960	103.783	106.646	108.311	108.183	107.585	107.233	109.548			113.954

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

Table 7. Chain-Type Price Indexes for Value Added by Industry Group, 2011–2013

[2009=100, seasonally adjusted at annual rates]

Line			20	11			20	12			20	13	
LINE		- 1	II	III	IV	Ţ	II	III	IV	- 1	II	III	IV
1	Gross domestic product	102.354	103.024	103.651	103.782	104.296	104.751	105.345	105.640	105.994	106.165	106.685	107.099
2	Private industries	102.670	103.526	104.137	104.336	104.960	105.574	106.316	106.699	107.191	107.334	107.900	108.157
3	Agriculture, forestry, fishing, and hunting	141.967	147.970	152.948	144.439	145.021	143.666	148.536	158.608	182.723	173.050	168.093	159.735
4	Mining	133.025	141.121	135.409	134.337	133.209	123.120	121.693	122.625	125.365	127.205	134.039	127.002
5	Utilities	99.274	98.447	98.975	96.684	94.694	95.055	94.717	95.470	96.051	98.136	96.979	98.271
6	Construction	98.514	98.765	99.788	100.738	100.902	101.824	102.155	101.991	103.470	104.697	105.420	108.090
/	Manufacturing	101.973	103.933	105.343	104.952	105.631	107.112	110.056	109.522	108.119	106.482	106.999	107.193
8 9	Durable goodsNondurable goods	96.762	96.497	96.458	97.138	97.479	98.365	98.904	98.622	99.302	99.839	100.334	101.206
10	Wholesale trade	107.954 103.690	112.685 105.982	115.939 106.930	114.154 105.346	115.272 108.305	117.522 107.704	123.660 109.040	122.791 110.482	118.597 110.534	114.153 110.885	114.694 111.860	114.027 111.674
11	Retail trade	103.690	103.962	100.930	103.346	103.911	107.704	103.999	105.434	104.740	105.661	106.061	107.361
12	Transportation and warehousing	101.427	102.176	102.406	103.900	103.911	100.755	103.999	103.434	104.740	109.493	100.001	111.223
13	Information	99.554	99.924	98.714	99.697	99.611	100.015	99.949	99.912	100.030	109.493	99.505	99.619
14	Finance, insurance, real estate, rental, and leasing	101.199	101.406	102.281	102.962	103.907	104.579	105.592	106.176	106.445	106.579	107.406	108.241
15	Finance and insurance	104.408	104.512	105.923	106.464	107.967	104.857	110.687	111.294	110.929	110.354	111.427	112.054
16	Real estate and rental and leasing	99.584	99.846	100.465	101.211	101.890	102.454	103.067	103.637	104.213	104.690	105.397	106.332
17	Professional and business services	102.009	101.987	102.633	102.723	103.325	103.615	104.143	104.213	105.121	105.632	105.526	105.326
18	Professional, scientific, and technical services	102.255	102.470	102.826	103.081	103.567	104.127	104.439	104.406	104.805	105.481	105.798	105.818
19	Management of companies and enterprises	101.162	100.434	101.580	101.275	101.349	100.966	102.438	102.113	104.454	103.947	101.610	100.217
20	Administrative and waste management services	101.955	101.821	102.834	102.787	103.991	104.078	104.506	105.076	106.228	107.027	107.435	107.543
21	Educational services, health care, and social assistance	102.964	103.383	103.765	104.493	104.866	105.524	105.944	106.179	106,600	106.965	107.674	108.357
22	Educational services	104.017	104.791	105.768	107.282	108.118	109.169	109.751	110.654	112.027	113.174	113.490	114.431
23	Health care and social assistance	102.800	103.163	103.453	104.061	104.364	104.963	105.358	105.493	105.771	106.022	106.788	107.433
24	Arts, entertainment, recreation, accommodation, and food services	99.088	99.111	99.636	100.348	101.438	102.806	103.862	103.035	103.329	104.791	106.376	106.176
25	Arts, entertainment, and recreation	99.639	99.850	99.684	99.961	101.108	101.767	102.866	102.817	102.732	103.068	104.390	104.767
26	Accommodation and food services	98.887	98.842	99.618	100.488	101.557	103.181	104.222	103.113	103.542	105.407	107.087	106.678
27	Other services, except government	103.682	104.493	105.027	105.688	106.171	106.986	107.643	108.096	109.335	110.087	110.828	111.584
28	Government	103.820	104.424	104.886	104.738	105.392	105.775	105.639	105.918	106.192	106.458	106.695	107.851
29	Federal	104.263	104.860	105.363	105.283	105.437	105.645	105.518	105.533	106.233	106.535	106.736	109.044
30	State and local	103.606	104.214	104.656	104.474	105.373	105.840	105.700	106.105	106.176	106.425	106.680	107.303
	Addenda:												
31	Private goods-producing industries 1	106.454	108.916	109.676	109.099	109.483	109.406	111.420	111.601	112.450	111.357	112.350	111.736
32	Private services-producing industries ²	101.598	102.003	102.572	102.989	103.681	104.492	104.872	105.312	105.702	106.201	106.645	107.155

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table 8. Gross Output by Industry Group, 2011–2013

[Billions of dollars, seasonally adjusted at annual rates]

Line		2011					20	112		2013			
Line		I	II	III	IV	I	II	III	IV	I	II	III	IV
1	All Industries	27,035.0	27,478.6	27,653.7	27,940.3	28,466.7	28,468.3	28,757.5	29,081.4	29,217.9	29,488.1	29,821.9	30,140.7
2	Private industries		24,094.4			25,052.4		25,295.3	25,648.5			26,377.0	26,702.8
3	Agriculture, forestry, fishing, and hunting	426.7	423.1	435.4	439.5	442.0	445.3	443.7	451.0	524.1	514.8	516.4	495.3
4	Mining	510.1	558.5	556.8	576.0	586.8	551.7	560.7	590.0	593.3	628.7	673.4	642.2
5	Utilities	409.6	405.0	399.9	380.6	366.7	377.4	379.7	388.8	395.3	407.5	389.0	412.1
6	Construction	962.4	1,000.5	1,012.9	1,040.5	1,056.8	1,054.4	1,062.1	1,090.2	1,073.6	1,110.5	1,142.2	1,150.3
7	Manufacturing	5,415.6	5,564.9	5,629.8	5,683.0	5,787.9	5,752.5	5,816.5	5,845.8	5,895.7	5,877.1	5,950.1	5,984.8
8	Durable goods	2,529.6	2,537.7	2,619.8	2,665.6	2,727.9	2,772.7	2,786.9	2,805.0	2,827.6	2,863.4	2,895.4	2,948.1
9	Nondurable goods	2,886.0	3,027.3	3,010.0	3,017.4	3,059.9	2,979.8	3,029.5	3,040.9	3,068.2	3,013.7	3,054.7	3,036.7
10	Wholesale trade	1,302.9	1,360.7	1,347.9	1,405.9	1,408.0	1,402.7	1,421.9	1,419.7	1,428.1	1,443.2	1,492.9	1,545.2
11	Retail trade	1,354.1	1,354.4	1,380.4	1,410.3	1,459.9	1,466.6	1,484.1	1,501.9	1,510.3	1,528.8	1,560.9	1,587.8
12	Transportation and warehousing	900.1	922.0	933.5	948.2	959.8	963.0	957.9	980.3	990.8	995.5	1,003.1	1,028.3
13	Information	1,276.8	1,301.4	1,315.8	1,329.3	1,351.3	1,366.1	1,373.5	1,420.3	1,413.0	1,422.6	1,441.1	1,474.1
14	Finance, insurance, real estate, rental, and leasing	4,641.5	4,619.5	4,610.0	4,628.1	4,767.9	4,771.9	4,852.8	4,934.6	4,959.5	5,007.6	5,024.1	5,075.0
15	Finance and insurance	1,958.1	1,915.7	1,876.1	1,880.9	1,985.6	1,965.1	2,010.1	2,036.9	2,057.5	2,077.2	2,062.2	2,095.6
16	Real estate and rental and leasing	2,683.4	2,703.8	2,733.9	2,747.2	2,782.3	2,806.8	2,842.7	2,897.7	2,902.0	2,930.4	2,961.9	2,979.3
17	Professional and business services	2,835.1	2,879.6	2,909.1	2,933.4	3,011.4	3,016.3	3,031.6	3,051.9	3,018.0	3,098.6		3,174.6
18	Professional, scientific, and technical services	1,653.1	1,681.4	1,706.6	1,726.4	1,752.6	1,752.0	1,744.0	1,753.8	1,735.1	1,781.9	1,807.0	1,833.2
19	Management of companies and enterprises	482.2	485.7	481.6	485.2	514.3	526.6	536.8	547.0	551.3	564.8	574.9	584.1
20	Administrative and waste management services	699.8	712.5	720.9	721.8	744.5	737.8	750.8	751.1	731.6	751.9	750.2	757.2
21	Educational services, health care, and social assistance	2,113.5	2,140.2	2,145.9	2,190.7	2,227.2	2,232.1	2,247.0	2,290.9	2,291.6	2,323.3	2,344.5	2,398.1
22	Educational services	286.1	288.7	292.7	299.1	305.3	310.4	314.5	316.7	318.6	323.3	325.9	329.5
23	Health care and social assistance	1,827.4	1,851.5	1,853.2	1,891.5	1,921.9	1,921.7	1,932.5	1,974.2	1,973.0	2,000.0	2,018.7	2,068.6
24	Arts, entertainment, recreation, accommodation, and food services	989.1	1,012.2	1,018.7	1,033.7	1,056.7	1,070.4	1,080.8	1,093.5		1,121.1	1,130.1	1,154.8
25	Arts, entertainment, and recreation	248.4	257.4	254.1	258.8	267.6	267.7	270.9	268.2	275.2	272.9	275.5	285.8
26	Accommodation and food services	740.7	754.8	764.6	774.9	789.1	802.7	809.9	825.3	838.6	848.3	854.6	869.0
27	Other services, except government	548.0	552.3	556.1	559.1	570.1	576.0	583.0	589.4	580.7	579.4	577.0	580.4
28	Government	3.349.5	3.384.1	3.401.7	3,381.9	3.414.3	3,422.0	3.462.2	3.432.9	3.430.1	3,429,2	3.444.9	3.437.9
29	Federal	1,140.7	1,160.0	1.170.4	1,147.2	1,152.5	1,153.1	1.179.2	1,137.6	1,126.2	1,120.5	1,119.3	1.097.9
30	State and local	2,208.8	2,224.1	2,231.4	2,234.6	2,261.8	2,269.0	2,283.0	2,295.3	2,303.9	2,308.7	2,325.6	2,339.9
	Addenda:												
31	Private goods-producing industries 1	7.314.7	7.547.1	7,634.8	7,739.0	7,873.5	7.803.8	7.883.1	7,977.1	8.086.7	8,131.3	8.282.1	8.272.6
32	Private services-producing industries ²	16.370.7	16.547.4	16.617.2	16.819.4	17,178.9	17.242.5	17,412.2	17.671.3	17.701.1	17.927.7	18.094.9	18,430.3

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

Table 9. Chain-Type Quantity Indexes for Gross Output by Industry Group, 2011–2013

[2009=100, seasonally adjusted at annual rates]

Line		2011				2012				2013				
LINE		1	=	III	IV	1	II	III	IV	I	=	III	IV	
1	All Industries	104.152	104.431	104.718	105.806	107.073	106.985	107.748	108.337	108.378	109.443	110.157	111.219	
2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 100 111 122 133 144 155 122 233 24 255 266 27	Private industries Agriculture, forestry, fishing, and hunting	104.994 99.485 104.668 100.821 86.877 108.366 115.519 102.318 105.806 102.975 101.749 103.861 106.652 104.196 103.861 103.323 104.196 103.323 104.196 103.324 103.329 104.196	105.314 95.332 108.836 99.401 89.375 107.821 114.747 101.947 117.990 107.931 108.183 107.371 102.158 99.422 108.018 105.563 114.957 109.492 104.403 104.403 104.403 104.403 104.403 104.403 104.403 104.207 105.432 100.700	105.634 95.512 111.7821 89.7821 89.783 118.066 101.249 109.445 109.179 109.389 101.329 96.552 109.977 104.861 108.788 107.195 109.977 104.261 105.246 105.291 105.246 105.291 105.246 105.291	106.948 98.182 116.877 96.043 91.513 110.565 120.465 102.455 110.808 110.123 109.814 101.256 96.386 96.386 109.320 107.718 114.179 110.054 105.944 105.944 105.944 106.329 104.541 106.968	108.361 97.770 120.060 94.802 92.609 111.452 122.694 102.325 114.532 110.507 105.566 111.571 108.805 120.743 112.345 109.999 106.895 107.746 106.990 108.012	108.244 98.344 120.781 98.846 91.843 111.345 124.509 100.774 119.806 112.992 109.994 105.983 111.464 108.289 123.759 111.230 107.114 111.145 106.501 108.205 106.501 108.205 106.501 108.205	108.971 95.572 123.657 98.568 92.101 112.513 125.326 102.195 120.286 116.130 109.199 112.818 104.053 100.379 112.5057 112.766 107.434 111.983 106.741 108.413 106.925 108.931 103.831	109.839 93.740 128.407 99.219 94.167 112.483 125.885 101.723 118.760 116.158 111.133 116.291 105.247 101.253 107.933 127.351 112.240 109.816 101.932 108.692 109.816 109.605 111.263	109.946 102.355 127.015 100.322 91.891 113.396 126.570 102.800 119.224 117.075 111.757 111.757 111.757 102.400 105.516 102.400 107.809 110.048 106.346 108.683 111.656 108.683 111.656 108.235 111.443 108.140 112.580	111.184 103.840 132.764 101.250 94.327 114.438 128.421 103.225 117.854 112.753 106.374 103.636 112.560 108.640 109.910 109.910 109.910 101.456 107.099 111.756	111.993 105.551 137.163 97.837 96.431 114.976 129.760 103.151 123.631 120.114 112.737 108.905 113.834 109.941 1134.014 110.299 113.198 109.947 111.223 107.147 111.223 107.147 112.623	113.348 104.787 135.962 102.717 95.876 116.184 103.966 128.010 121.131 115.193 106.497 103.463 108.728 115.493 111.525 111.525 111.525 111.327 111.327 111.321 112.410 113.740 110.738 114.775 100.560	
28 29 30	Government Federal State and local	98.572 101.284 97.222	98.580 101.893 96.931	98.645 102.413 96.771	98.231 100.607 97.048	98.524 100.644 97.468	98.630 100.503 97.695	99.635 102.804 98.061	98.353 98.973 98.033	97.955 97.375 98.225	97.862 96.726 98.406	97.941 96.364 98.702	97.048 93.248 98.912	
31 32	Addenda: Private goods-producing industries ¹ Private services-producing industries ²	104.063 105.405	104.105 105.853	105.107 105.859	107.122 106.850	108.114 108.458	107.997 108.341	108.878 108.998	109.363 110.040	110.147 109.839	111.747 110.912	112.871 111.579	113.505 113.259	

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table 10. Chain-Type Price Indexes for Gross Output by Industry Group, 2011–2013

[2009=100, seasonally adjusted at annual rates]

Line		2011			2012				2013				
Line		I	II	III	IV	I	II	III	IV	1	II	III	IV
1	All Industries	105.286	106.726	107.112	107.108	107.834	107.929	108.253	108.878	109.347	109.285	109.806	109.919
2 3 4 4 5 6 6 7 8 8 9 9 100 11 12 13 3 14 4 15 16 6 17 7 18 8 20 21 22 23 24 25 26 6 27	Private industries Agriculture, forestry, fishing, and hunting. Mirinig. Utilities Construction. Manufacturing Durable goods. Wholesale trade Retail trade. Transportation and warehousing. Information Finance, insurance, real estate, rental, and leasing. Finance and insurance. Real estate and rental and leasing Professional and business services Professional and business services Management of companies and enterprises. Administrative and waste management services Educational services, health care, and social assistance. Educational services. Health care and social assistance Arts, entertainment, recreation, accommodation, and food services. Other services, except government	105.302 125.407 128.147 104.381 101.604 111.921 103.374 120.171 103.742 101.881 107.897 100.341 100.490 102.403 102.403 102.403 102.403 103.154 103.783 103.056 101.485 101.1597 101.597	106.795 129.776 134.918 104.695 102.685 115.583 104.401 126.506 105.613 102.654 110.195 100.781 104.2693 102.851 101.735 102.966 103.783 102.966 103.783 104.645 103.649 102.108 102.109 102.280 104.277	107.167 133.268 130.955 105.040 103.518 115.830 104.752 126.648 106.336 103.174 110.557 100.016 102.801 104.772 101.407 102.355 103.730 104.202 104.603 104.572 103.004 104.702 104.013	107.187 130.877 129.536 101.836 104.297 115.102 105.409 104.114 111.320 100.648 103.282 105.296 103.367 103.367 103.3788 104.685 106.410 104.417 103.090 101.824 103.522 103.522	107.916 132.173 128.432 99.384 104.668 116.294 107.580 107.580 104.264 112.290 108.21 104.071 106.278 104.071 105.082 104.071 105.082 104.071 105.082 104.071 105.082 104.071 105.082 104.071 105.082 104.071 105.083 104.373 105.724	108.007 132.348 120.029 98.077 105.296 115.694 107.217 106.165 113.243 107.217 106.165 104.595 106.839 104.242 104.465 105.00 102.454 104.955 105.00 105.140 104.897 103.397 105.407	108.353 135.720 119.156 98.967 105.764 115.767 104.973 126.306 108.241 104.528 113.406 101.230 105.394 107.936 103.568 104.694 104.796 105.357 105.857 105.493 105.493 105.493 105.493 105.206 106.253 106.253	108.997 140.651 120.744 100.658 106.178 116.383 127.366 109.461 105.756 114.046 101.559 105.957 104.973 104.905 104.913 105.892 106.290 109.218 105.833 105.888 104.458 105.974	109.483 149.667 122.744 101.232 107.147 116.431 105.456 127.165 109.682 105.516 101.796 106.219 108.363 105.344 104.959 106.752 106.752 106.752 106.753 106.416 108.194	109.402 144.934 124.441 103.381 107.975 115.007 105.255 124.392 106.101 114.139 101.909 106.385 108.071 105.185 106.043 105.905 107.015 107.015 106.790 104.810 107.458	109.938 143.024 129.011 102.141 108.631 115.890 105.331 126.175 106.292 115.030 101.366 107.018 108.747 105.789 105.988 106.122 103.312 107.620 107.544 107.579 108.414	109.965 138.176 124.115 103.071 110.031 115.353 105.846 124.448 110.528 107.216 115.406 101.486 107.690 109.238 106.584 105.881 106.131 102.624 107.698 108.004 111.776 107.600 109.138
28 29 30	Government	105.159 104.844 105.322	106.237 105.978 106.371	106.720 106.382 106.894	106.544 106.151 106.747	107.245 106.598 107.579	107.372 106.800 107.669	107.538 106.776 107.932	108.017 106.997 108.543	108.369 107.662 108.739	108.441 107.833 108.763	108.851 108.127 109.229	109.628 109.607 109.670
31 32	Addenda: Private goods-producing industries 1 Private services-producing industries 2	111.972 102.548	115.478 103.216	115.704 103.646	115.075 103.934	116.000 104.582	115.097 105.083	115.325 105.478	116.182 106.034	116.940 106.407	115.901 106.726	116.876 107.078	116.089 107.445

care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health

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