

# News Release

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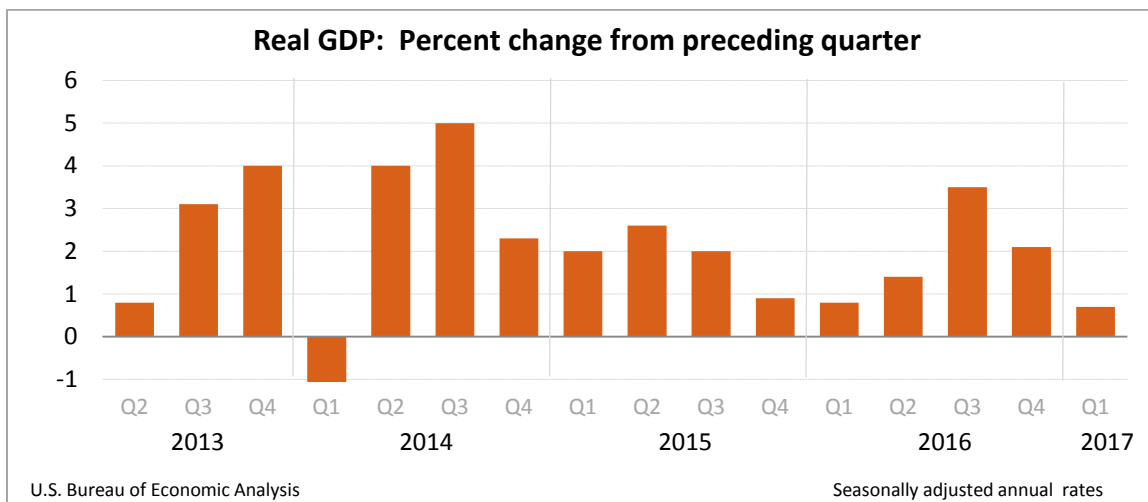
BEA 17-19

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## Gross Domestic Product: First Quarter 2017 (Advance Estimate)

**Real gross domestic product (GDP)** increased at an annual rate of 0.7 percent in the first quarter of 2017 (table 1), according to the "advance" estimate released by the Bureau of Economic Analysis. In the fourth quarter of 2016, real GDP increased 2.1 percent.

The Bureau emphasized that the first-quarter advance estimate released today is based on source data that are incomplete or subject to further revision by the source agency (see "Source Data for the Advance Estimate" on page 2). The "second" estimate for the first quarter, based on more complete data, will be released on May 26, 2017.



The increase in real GDP in the first quarter reflected positive contributions from nonresidential fixed investment, exports, residential fixed investment, and personal consumption expenditures (PCE), that were offset by negative contributions from private inventory investment, state and local government spending, and federal government spending. Imports, which are a subtraction in the calculation of GDP, increased (table 2).

The deceleration in real GDP in the first quarter reflected a deceleration in PCE and downturns in private inventory investment and in state and local government spending that were partly offset by an upturn in exports and accelerations in both nonresidential and residential fixed investment.

### Upcoming Annual Update of the National Income and Product Accounts

The annual update of the national income and product accounts, covering the first quarter of 2014 through the first quarter of 2017, will be released along with the "advance" estimate of GDP for the second quarter of 2017 on July 28. For more information, see the [Technical Note](#).

**Current-dollar GDP** increased 3.0 percent, or \$137.9 billion, in the first quarter to a level of \$19,007.3 billion. In the fourth quarter, current-dollar GDP increased 4.2 percent, or \$194.1 billion (table 1 and table 3).

The **price index for gross domestic purchases** increased 2.6 percent in the first quarter, compared with an increase of 2.0 percent in the fourth quarter (table 4). **The PCE price index** increased 2.4 percent, compared with an increase of 2.0 percent. Excluding food and energy prices, the PCE price index increased 2.0 percent, compared with an increase of 1.3 percent (appendix table A).

#### **Personal Income (table 10)**

**Current-dollar personal income** increased \$161.9 billion in the first quarter, compared with an increase of \$154.6 billion in the fourth. The acceleration in personal income primarily reflected an acceleration in government social benefits to persons that was partly offset by a downturn in personal dividend income.

**Disposable personal income** increased \$121.0 billion, or 3.4 percent, in the first quarter, compared with an increase of \$141.6 billion, or 4.1 percent, in the fourth. **Real disposable personal income** increased 1.0 percent, compared with an increase of 2.0 percent.

**Personal saving** was \$814.2 billion in the first quarter, compared with \$778.9 billion in the fourth. The **personal saving rate** -- personal saving as a percentage of disposable personal income -- was 5.7 percent in the first quarter, compared with 5.5 percent in the fourth.

#### **Source Data for the Advance Estimate**

Information on the assumptions used for unavailable source data in the advance estimate is provided in a [Technical Note](#) that is posted with the news release on BEA's Web site. Within a few days after the release, a detailed "[Key Source Data and Assumptions](#)" file is posted on the Web site. For information on updates to GDP, see the "Additional Information" section that follows.

\* \* \*

Next release: May 26, 2017 at 8:30 A.M. EDT  
Gross Domestic Product: First Quarter 2017 (Second Estimate)  
Corporate Profits: First Quarter 2017 (Preliminary Estimate)

## Additional Information

### Resources

Additional Resources available at [www.bea.gov](http://www.bea.gov):

- Stay informed about BEA developments by reading the BEA [blog](#), signing up for BEA's [email subscription service](#), or following BEA on Twitter [@BEA\\_News](#).
- Historical time series for these estimates can be accessed in BEA's [Interactive Data Application](#).
- Access BEA data by registering for BEA's Data [Application Programming Interface](#) (API).
- For more on BEA's statistics, see our monthly online journal, the [Survey of Current Business](#).
- BEA's [news release schedule](#)
- [NIPA Handbook](#): Concepts and Methods of the U.S. National Income and Product Accounts

### Definitions

**Gross domestic product** (GDP) is the value of the goods and services produced by the nation's economy less the value of the goods and services used up in production. GDP is also equal to the sum of personal consumption expenditures, gross private domestic investment, net exports of goods and services, and government consumption expenditures and gross investment.

**Current-dollar estimates** are valued in the prices of the period when the transactions occurred—that is, at “market value.” Also referred to as “nominal estimates” or as “current-price estimates.”

**Real values** are inflation-adjusted estimates—that is, estimates that exclude the effects of price changes.

The **gross domestic purchases price index** measures the prices of final goods and services purchased by U.S. residents.

The **personal consumption expenditure price index** measures the prices paid for the goods and services purchased by, or on the behalf of, “persons.”

**Personal income** is the income received by, or on behalf of, all persons from all sources: from participation as laborers in production, from owning a home or business, from the ownership of financial assets, and from government and business in the form of transfers. It includes income from domestic sources as well as the rest of world. It does not include realized or unrealized capital gains or losses.

**Disposable personal income** is the income available to persons for spending or saving. It is equal to personal income less personal current taxes.

**Personal outlays** is the sum of personal consumption expenditures, personal interest payments, and personal current transfer payments.

**Personal saving** is personal income less personal outlays and personal current taxes.

The **personal saving rate** is personal saving as a percentage of disposable personal income.

For more definitions, see the [Glossary: National Income and Product Accounts](#).

### Statistical conventions

**Annual rates.** Quarterly values are expressed at seasonally-adjusted annual rates (SAAR), unless otherwise specified. Dollar changes are calculated as the difference between these SAAR values. For detail, see the FAQ [“Why does BEA publish estimates at annual rates?”](#)

**Percent changes** in quarterly series are calculated from unrounded data and are displayed at annual rates, unless otherwise specified. For details, see the FAQ [“How is average annual growth calculated?”](#)

**Quantities and prices.** Quantities, or “real” volume measures, and prices are expressed as index numbers with a specified reference year equal to 100 (currently 2009). Quantity and price indexes are calculated using a Fisher-chained weighted formula that incorporates weights from two adjacent periods (quarters for quarterly data and annuals for annual data). “Real” dollar series are calculated by multiplying the published quantity index by the current-dollar value in the reference year (2009) and then dividing by 100. Percent changes calculated from real quantity indexes and chained-dollar levels are conceptually the same; any differences are due to rounding.

**Chained-dollar values** are not additive because the relative weights for a given period differ from those of the reference year. In tables that display chained-dollar values, a “residual” line shows the difference between the sum of detailed chained-dollar series and its corresponding aggregate.

## Updates to GDP

BEA releases three vintages of the current quarterly estimate for GDP: "Advance" estimates are released near the end of the first month following the end of the quarter and are based on source data that are incomplete or subject to further revision by the source agency; "second" and "third" estimates are released near the end of the second and third months, respectively, and are based on more detailed and more comprehensive data as they become available.

Annual and comprehensive updates are typically released in late July. Annual updates generally cover at least the 3 most recent calendar years (and their associated quarters) and incorporate newly available major annual source data as well as some changes in methods and definitions to improve the accounts. Comprehensive (or benchmark) updates are carried out at about 5-year intervals and incorporate major periodic source data, as well as major conceptual improvements.

The table below shows the average revisions to the quarterly percent changes in real GDP between different estimate vintages, without regard to sign.

Vintage	Average Revision Without Regard to Sign (percentage points, annual rates)
Advance to second	0.5
Advance to third	0.6
Second to third	0.2
Advance to latest	1.1
Note - Based on estimates from 1993 through 2015. For more information on GDP updates, see <a href="#">Revision Information</a> on the BEA Web site.	

The larger average revision from the advance to the latest estimate reflects the fact that periodic comprehensive updates include major statistical and methodological improvements.

Unlike GDP, an advance current quarterly estimate of GDI is not released because data on domestic profits and on net interest of domestic industries are not available. For fourth quarter estimates, these data are not available until the third estimate.

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### List of GDP News Release Tables

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Appendix Table A. Real Gross Domestic Product and Related Aggregates and Price Indexes: Percent Change From Preceding Period and Contributions to Percent Change

**Table 1. Real Gross Domestic Product and Related Measures: Percent Change From Preceding Period**

Line		2014	2015	2016	Seasonally adjusted at annual rates															Line	
					2013			2014				2015				2016					2017
					II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		I
1	<b>Gross domestic product (GDP) ....</b>	2.4	2.6	1.6	0.8	3.1	4.0	-1.2	4.0	5.0	2.3	2.0	2.6	2.0	0.9	0.8	1.4	3.5	2.1	0.7	1
2	<b>Personal consumption expenditures .....</b>	2.9	3.2	2.7	0.8	1.9	3.4	1.9	3.8	3.7	4.6	2.4	2.9	2.7	2.3	1.6	4.3	3.0	3.5	0.3	2
3	Goods .....	3.9	4.0	3.6	1.3	2.9	4.0	2.4	6.7	4.3	5.1	2.7	4.3	4.2	2.1	1.2	7.1	3.5	6.0	0.1	3
4	Durable goods .....	6.7	6.9	5.8	2.1	4.1	4.9	4.6	13.0	8.7	8.5	4.1	7.6	6.2	4.0	-0.6	9.8	11.6	11.4	-2.5	4
5	Nondurable goods .....	2.6	2.6	2.5	0.9	2.4	3.6	1.4	3.8	2.3	3.5	1.9	2.7	3.2	1.2	2.1	5.7	-0.5	3.3	1.5	5
6	Services .....	2.3	2.8	2.3	0.6	1.3	3.1	1.7	2.3	3.4	4.3	2.3	2.2	2.0	2.3	1.9	3.0	2.7	2.4	0.4	6
7	<b>Gross private domestic investment .....</b>	4.5	5.0	-1.6	5.0	13.4	5.4	-6.6	11.2	8.9	2.6	9.9	1.0	2.0	-2.3	-3.3	-7.9	3.0	9.4	4.3	7
8	Fixed investment .....	5.5	4.0	0.7	4.3	2.9	6.6	5.3	7.2	7.4	1.3	3.7	4.3	5.7	-0.2	-0.9	-1.1	0.1	2.9	10.4	8
9	Nonresidential .....	6.0	2.1	-0.5	2.5	2.1	9.5	7.0	6.1	8.3	-1.1	1.3	1.6	3.9	-3.3	-3.4	1.0	1.4	0.9	9.4	9
10	Structures .....	10.3	-4.4	-2.9	10.4	17.1	2.1	25.1	7.4	-2.7	4.1	-12.3	-2.7	4.3	-15.2	0.1	-2.1	12.0	-1.9	22.1	10
11	Equipment .....	5.4	3.5	-2.9	2.8	-5.2	19.5	0.3	6.5	15.2	-8.9	9.3	-0.3	9.1	-2.6	-9.5	-2.9	-4.5	1.9	9.1	11
12	Intellectual property products .....	3.9	4.8	4.7	-3.2	3.6	1.1	4.9	4.5	7.1	7.8	0.8	8.0	2.1	4.6	3.7	9.0	3.2	1.3	2.0	12
13	Residential .....	3.5	11.7	4.9	12.0	6.0	-4.5	-1.4	11.7	3.6	11.4	13.3	14.9	12.6	11.5	7.8	-7.7	-4.1	9.6	13.7	13
14	Change in private inventories .....																				14
15	<b>Net exports of goods and services .....</b>																				15
16	Exports .....	4.3	0.1	0.4	5.0	3.1	11.8	-2.7	8.7	2.1	4.5	-5.8	2.9	-2.8	-2.7	-0.7	1.8	10.0	-4.5	5.8	16
17	Goods .....	4.4	-0.6	0.6	6.6	3.5	15.7	-7.3	10.7	4.4	3.8	-10.1	4.6	-3.1	-4.6	0.1	1.7	14.4	-6.7	8.3	17
18	Services .....	3.9	1.6	-0.1	1.5	2.2	3.7	7.9	4.7	-2.8	6.0	3.8	-0.4	-2.3	1.0	-2.2	1.9	2.0	-0.1	1.2	18
19	Imports .....	4.4	4.6	1.2	5.3	1.7	1.6	4.9	9.9	-1.2	11.2	5.6	2.9	1.1	0.7	-0.6	0.2	2.2	9.0	4.1	19
20	Goods .....	4.8	4.9	0.7	5.8	1.7	1.6	5.7	10.7	-1.4	11.7	6.8	3.4	-0.1	0.7	-1.3	0.0	0.5	10.9	4.5	20
21	Services .....	2.6	2.9	3.1	2.6	1.7	1.3	1.2	6.3	0.1	8.8	-0.2	0.2	6.9	0.7	2.5	1.1	9.8	0.7	2.6	21
22	<b>Government consumption expenditures and gross investment .....</b>	-0.9	1.8	0.8	-2.0	-2.0	-2.8	-1.0	0.1	2.5	-0.4	2.6	3.2	1.9	1.0	1.6	-1.7	0.8	0.2	-1.7	22
23	Federal .....	-2.5	0.0	0.6	-5.3	-5.1	-5.7	-0.2	-2.8	3.9	-6.0	1.9	0.2	1.0	3.8	-1.5	-0.4	2.4	-1.2	-1.9	23
24	National defense .....	-4.1	-2.1	-0.7	-5.3	-6.6	-4.2	-5.0	-3.2	4.0	-11.6	-0.4	-0.5	-1.2	4.4	-3.2	-3.2	2.0	-3.6	-4.0	24
25	Nondefense .....	0.1	3.3	2.6	-5.2	-2.6	-8.1	8.3	-2.0	3.9	3.5	5.4	1.1	4.2	2.8	0.9	3.8	3.0	2.3	0.9	25
26	State and local .....	0.2	2.9	0.9	0.3	0.1	-1.0	-1.5	2.0	1.6	3.3	3.0	5.1	2.5	-0.6	3.5	-2.5	-0.2	1.0	-1.6	26
	<b>Addenda:</b>																				
27	Gross domestic income (GDI) <sup>1</sup> .....	3.0	2.5	1.6	2.0	0.8	2.5	2.1	5.4	4.5	4.0	1.6	0.6	2.5	1.5	0.8	0.7	5.0	1.0		27
28	Average of GDP and GDI .....	2.7	2.6	1.6	1.4	2.0	3.2	0.4	4.7	4.7	3.1	1.8	1.6	2.2	1.2	0.8	1.1	4.3	1.5		28
29	Final sales of domestic product .....	2.5	2.4	2.0	0.6	1.5	4.1	0.8	3.3	4.7	2.1	1.0	3.2	2.6	1.2	1.2	2.6	3.0	1.1	1.6	29
30	Gross domestic purchases .....	2.4	3.2	1.7	0.9	2.9	2.6	0.0	4.3	4.3	3.4	3.6	2.6	2.4	1.3	0.8	1.2	2.6	3.9	0.6	30
31	Final sales to domestic purchasers .....	2.6	3.1	2.1	0.8	1.3	2.7	1.9	3.7	4.1	3.2	2.7	3.2	3.0	1.7	1.2	2.4	2.1	2.8	1.5	31
32	Final sales to private domestic purchasers .....	3.4	3.3	2.3	1.5	2.1	4.0	2.5	4.4	4.4	4.0	2.7	3.2	3.3	1.8	1.1	3.2	2.4	3.4	2.2	32
33	Gross national product (GNP) .....	2.3	2.3	1.6	1.2	3.2	3.9	-1.2	3.7	5.3	1.7	1.6	2.3	1.7	1.3	0.0	2.2	3.4	2.9		33
34	Disposable personal income .....	3.5	3.5	2.8	2.4	2.4	0.9	4.5	5.3	4.1	4.3	2.0	3.9	3.3	3.0	2.1	2.9	2.9	2.0	1.0	34
	<b>Current-dollar measures:</b>																				
35	GDP .....	4.2	3.7	3.0	1.6	5.1	6.1	0.6	6.3	6.7	2.8	2.1	4.9	3.2	1.8	1.3	3.7	5.0	4.2	3.0	35
36	GDI .....	4.9	3.6	3.0	2.8	2.8	4.7	3.9	7.7	6.3	4.5	1.6	2.8	3.7	2.4	1.3	3.0	6.5	3.1		36
37	Average of GDP and GDI .....	4.5	3.7	3.0	2.2	3.9	5.4	2.2	7.0	6.5	3.7	1.8	3.9	3.5	2.1	1.3	3.4	5.7	3.7		37
38	Final sales of domestic product .....	4.4	3.6	3.4	1.6	3.6	6.4	2.5	5.5	6.5	2.6	1.1	5.5	3.9	2.1	1.8	5.0	4.5	3.2	3.9	38
39	Gross domestic purchases .....	4.2	3.7	2.8	1.4	4.4	4.7	2.1	6.2	5.8	3.7	2.2	4.2	3.5	1.7	1.0	3.3	4.1	6.0	3.1	39
40	Final sales to domestic purchasers .....	4.4	3.5	3.2	1.4	3.0	5.0	4.1	5.6	5.6	3.5	1.3	4.8	4.1	2.0	1.4	4.6	3.7	4.9	4.1	40
41	Final sales to private domestic purchasers .....	5.1	3.8	3.4	2.0	3.7	5.9	4.8	6.3	5.8	4.3	1.4	4.6	4.5	2.2	1.5	5.3	3.9	5.5	4.5	41
42	GNP .....	4.2	3.4	2.9	2.0	5.2	6.1	0.5	5.9	7.1	2.2	1.6	4.5	2.9	2.2	0.4	4.5	4.8	5.0		42
43	Disposable personal income .....	5.1	3.8	3.9	2.5	3.9	2.6	6.6	7.3	5.2	4.3	0.3	5.8	4.4	3.4	2.4	5.0	4.4	4.1	3.4	43

1. Gross domestic income deflated by the implicit price deflator for gross domestic product. See *Explanatory Note* at the end of the tables.

**Table 2. Contributions to Percent Change in Real Gross Domestic Product**

Line	2014	2015	2016	Seasonally adjusted at annual rates																Line
				2013			2014				2015				2016				2017	
				II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	
<b>Percent change at annual rate:</b>																				
1	<b>2.4</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>3.1</b>	<b>4.0</b>	<b>-1.2</b>	<b>4.0</b>	<b>5.0</b>	<b>2.3</b>	<b>2.0</b>	<b>2.6</b>	<b>2.0</b>	<b>0.9</b>	<b>0.8</b>	<b>1.4</b>	<b>3.5</b>	<b>2.1</b>	<b>0.7</b>	1
<b>Percentage points at annual rates:</b>																				
2	<b>1.95</b>	<b>2.16</b>	<b>1.86</b>	<b>0.58</b>	<b>1.28</b>	<b>2.29</b>	<b>1.26</b>	<b>2.56</b>	<b>2.52</b>	<b>3.07</b>	<b>1.63</b>	<b>1.94</b>	<b>1.81</b>	<b>1.53</b>	<b>1.11</b>	<b>2.88</b>	<b>2.03</b>	<b>2.40</b>	<b>0.23</b>	2
3	<b>0.89</b>	<b>0.91</b>	<b>0.79</b>	<b>0.30</b>	<b>0.67</b>	<b>0.90</b>	<b>0.54</b>	<b>1.50</b>	<b>0.98</b>	<b>1.14</b>	<b>0.59</b>	<b>0.94</b>	<b>0.92</b>	<b>0.47</b>	<b>0.25</b>	<b>1.51</b>	<b>0.77</b>	<b>1.29</b>	<b>0.02</b>	3
4	0.49	0.51	0.42	0.16	0.30	0.36	0.33	0.91	0.62	0.61	0.30	0.55	0.45	0.30	-0.05	0.70	0.84	0.82	-0.19	4
5	0.16	0.13	0.08	-0.07	-0.05	0.10	0.17	0.35	0.22	0.19	0.02	0.16	0.07	-0.04	-0.23	0.22	0.47	0.39	-0.45	5
6	0.12	0.12	0.11	0.08	0.18	0.08	0.05	0.24	0.11	0.11	0.08	0.11	0.13	0.10	0.08	0.15	0.10	0.07	0.04	6
7	0.16	0.19	0.20	0.15	0.15	0.07	0.09	0.26	0.26	0.20	0.14	0.21	0.18	0.16	0.14	0.29	0.20	0.28	0.30	7
8	0.05	0.07	0.04	0.00	0.02	0.10	0.01	0.07	0.04	0.10	0.06	0.07	0.07	0.08	-0.04	0.05	0.07	0.07	-0.08	8
9	0.40	0.40	0.36	0.14	0.37	0.54	0.21	0.59	0.35	0.53	0.28	0.39	0.47	0.17	0.30	0.80	-0.07	0.47	0.22	9
10	0.11	0.00	0.14	-0.18	0.10	0.22	0.17	0.10	0.02	0.00	-0.02	-0.01	-0.03	-0.01	0.15	0.36	0.13	0.32	0.20	10
11	0.04	0.08	0.03	0.10	-0.03	0.04	-0.05	0.13	0.02	0.19	0.01	0.11	0.04	0.02	-0.02	0.10	-0.02	0.00	-0.11	11
12	0.01	0.07	0.02	0.12	0.03	0.04	-0.04	-0.06	0.02	0.13	0.14	-0.01	0.10	-0.02	0.08	0.00	-0.04	-0.03	-0.13	12
13	0.25	0.25	0.18	0.10	0.27	0.25	0.13	0.42	0.29	0.21	0.16	0.29	0.35	0.18	0.08	0.35	-0.14	0.18	0.26	13
14	<b>1.06</b>	<b>1.26</b>	<b>1.08</b>	<b>0.28</b>	<b>0.61</b>	<b>1.39</b>	<b>0.73</b>	<b>1.06</b>	<b>1.54</b>	<b>1.93</b>	<b>1.04</b>	<b>1.00</b>	<b>0.89</b>	<b>1.07</b>	<b>0.86</b>	<b>1.37</b>	<b>1.26</b>	<b>1.11</b>	<b>0.21</b>	14
15	1.08	1.26	1.01	0.33	0.67	1.35	0.71	1.13	1.60	2.00	1.08	0.99	0.69	0.92	0.85	1.46	1.02	1.12	0.50	15
16	0.17	0.20	0.15	0.03	-0.11	0.34	0.42	-0.06	0.00	0.39	0.39	0.11	0.21	-0.22	0.09	0.54	0.32	-0.18	-0.29	16
17	0.36	0.60	0.53	0.34	0.18	0.37	-0.15	0.70	0.73	0.90	0.50	0.44	0.43	0.42	0.63	0.83	0.07	0.64	0.37	17
18	0.09	0.07	0.03	0.10	0.09	-0.04	0.19	0.05	0.14	0.06	0.08	0.06	0.01	0.11	-0.03	-0.03	0.05	0.11	0.02	18
19	0.05	0.04	0.04	-0.12	0.20	0.07	0.07	-0.12	0.18	0.08	0.01	-0.05	0.03	0.24	-0.02	-0.18	0.14	0.15	0.10	19
20	0.14	0.19	0.12	-0.17	0.07	0.29	-0.01	0.27	0.19	0.25	0.12	0.29	0.07	0.17	0.11	0.12	0.10	0.00	0.06	20
21	0.07	0.01	0.02	0.11	0.03	0.19	-0.05	0.07	0.21	-0.04	-0.05	0.02	-0.05	0.11	-0.12	-0.03	0.23	0.11	0.10	21
22	0.20	0.14	0.14	0.05	0.21	0.13	0.23	0.22	0.15	0.36	0.03	0.13	-0.01	0.10	0.18	0.19	0.11	0.28	0.13	22
23	-0.02	0.00	0.07	-0.06	-0.06	0.04	0.02	-0.07	-0.06	-0.07	-0.04	0.00	0.20	0.15	0.01	-0.08	0.24	-0.02	-0.30	23
24	0.11	0.18	0.26	0.22	0.00	0.29	-0.33	0.36	0.29	0.39	0.01	0.07	0.10	0.25	0.28	0.40	0.27	0.32	-0.10	24
25	0.14	0.18	0.20	0.27	0.06	0.25	-0.35	0.43	0.35	0.46	0.05	0.06	-0.09	0.10	0.27	0.49	0.03	0.34	0.20	25
26	<b>0.73</b>	<b>0.82</b>	<b>-0.26</b>	<b>0.78</b>	<b>2.08</b>	<b>0.91</b>	<b>-1.10</b>	<b>1.79</b>	<b>1.49</b>	<b>0.45</b>	<b>1.62</b>	<b>1.18</b>	<b>0.35</b>	<b>-0.39</b>	<b>-0.56</b>	<b>-1.34</b>	<b>0.50</b>	<b>1.47</b>	<b>0.69</b>	26
27	<b>0.87</b>	<b>0.65</b>	<b>0.11</b>	<b>0.70</b>	<b>0.48</b>	<b>1.01</b>	<b>0.79</b>	<b>1.12</b>	<b>1.16</b>	<b>0.22</b>	<b>0.61</b>	<b>0.70</b>	<b>0.92</b>	<b>-0.03</b>	<b>-0.15</b>	<b>-0.18</b>	<b>0.02</b>	<b>0.46</b>	<b>1.62</b>	27
28	0.76	0.27	-0.07	0.35	0.29	1.16	0.84	0.76	1.05	-0.14	0.18	0.21	0.49	-0.43	-0.44	0.12	0.18	0.11	1.12	28
29	0.29	-0.13	-0.08	0.27	0.44	0.06	0.66	0.22	-0.08	0.13	-0.39	-0.07	-0.12	-0.45	0.00	-0.06	0.30	-0.05	0.55	29
30	0.32	0.21	-0.17	0.21	-0.29	1.05	0.00	0.37	0.86	-0.57	0.54	-0.02	0.53	-0.16	-0.59	-0.17	-0.26	0.11	0.49	30
31	0.05	0.07	0.04	0.08	-0.02	0.04	0.05	0.28	-0.25	0.25	0.00	-0.09	0.40	0.02	-0.05	-0.09	0.15	0.07	0.23	31
32	0.00	0.00	-0.01	-0.12	0.02	0.08	-0.08	0.05	0.02	-0.08	0.06	0.05	-0.13	0.02	0.05	-0.02	-0.04	0.05	0.32	32
33	0.04	0.07	0.05	0.20	-0.04	-0.11	0.12	0.22	-0.26	0.23	0.08	-0.15	0.35	0.15	-0.07	-0.13	0.17	0.11	0.18	33
34	0.04	0.02	0.03	-0.10	0.06	-0.12	0.15	0.13	0.09	-0.14	0.01	0.15	-0.06	0.12	-0.05	0.11	-0.03	0.06	0.15	34
35	0.17	0.18	-0.10	0.38	-0.14	0.49	-0.03	0.12	0.47	-0.13	0.46	-0.02	0.26	-0.11	-0.23	-0.09	-0.29	-0.02	0.06	35
36	0.06	-0.06	-0.15	-0.14	-0.19	0.72	-0.17	-0.16	0.54	-0.54	0.07	-0.06	-0.07	-0.19	-0.26	-0.11	-0.08	0.00	0.06	36
37	0.15	0.19	0.19	-0.13	0.14	0.04	0.18	0.17	0.27	0.29	0.03	0.31	0.08	0.18	0.15	0.35	0.13	0.05	0.08	37
38	0.10	0.11	0.08	-0.13	0.14	0.08	0.09	0.14	0.17	0.13	0.15	0.11	-0.02	0.06	0.13	0.08	0.12	0.02	0.08	38
39	0.05	0.06	0.10	0.00	0.01	-0.04	0.10	0.04	0.09	0.14	-0.13	0.18	0.08	0.11	0.02	0.28	-0.03	0.02	0.01	39
40	0.00	0.02	0.01	0.00	-0.01	0.00	-0.01	0.00	0.01	0.02	0.02	0.02	0.02	0.01	-0.01	-0.01	0.04	0.02	-0.01	40
41	0.11	0.39	0.18	0.35	0.18	-0.15	-0.04	0.36	0.12	0.36	0.43	0.49	0.43	0.40	0.29	-0.31	-0.16	0.35	0.50	41
42	<b>-0.14</b>	<b>0.17</b>	<b>-0.37</b>	<b>0.08</b>	<b>1.60</b>	<b>-0.11</b>	<b>-1.89</b>	<b>0.67</b>	<b>0.32</b>	<b>0.23</b>	<b>1.01</b>	<b>-0.52</b>	<b>-0.57</b>	<b>-0.36</b>	<b>-0.41</b>	<b>-1.16</b>	<b>0.49</b>	<b>1.01</b>	<b>-0.93</b>	42
43	-0.07	0.00	-0.01	0.17	0.14	0.06	-0.39	0.03	0.02	-0.04	0.09	-0.05	0.01	-0.08	-0.05	0.07	0.08	-0.14	0.05	43
44	-0.07	0.17	-0.35	-0.09	1.46	-0.16	-1.50	0.64	0.30	0.28	0.92	-0.47	-0.58	-0.28	-0.35	-1.23	0.41	1.15	-0.97	44
45	<b>-0.15</b>	<b>-0.71</b>	<b>-0.13</b>	<b>-0.21</b>	<b>0.13</b>	<b>1.29</b>	<b>-1.16</b>	<b>-0.41</b>	<b>0.50</b>	<b>-1.14</b>	<b>-1.65</b>	<b>-0.08</b>	<b>-0.52</b>	<b>-0.45</b>	<b>0.01</b>	<b>0.18</b>	<b>0.85</b>	<b>-1.82</b>	<b>0.07</b>	45
46	<b>0.58</b>	<b>0.01</b>	<b>0.04</b>	<b>0.65</b>	<b>0.41</b>	<b>1.54</b>	<b>-0.39</b>	<b>1.16</b>	<b>0.29</b>	<b>0.60</b>	<b>-0.78</b>	<b>0.37</b>	<b>-0.36</b>	<b>-0.34</b>	<b>-0.09</b>	<b>0.21</b>	<b>1.16</b>	<b>-0.55</b>	<b>0.68</b>	46
47	0.41	-0.06	0.05	0.59	0.32	1.38	-0.72	0.96	0.41	0.35	-0.94	0.39	-0.26	-0.38	0.01	1.08	-0.55	0.63	0.47	47
48	0.17	0.07	0.00	0.06	0.09	0.16	0.33	0.20	-0.13	0.25	0.16	-0.02	-0.10	0.04	-0.09	0.08	0.08	0.00	0.05	48
49	<b>-0.72</b>	<b>-0.73</b>	<b>-0.17</b>	<b>-0.86</b>	<b>-0.28</b>	<b>-0.24</b>	<b>-0.77</b>	<b>-1.57</b>	<b>0.21</b>	<b>-1.74</b>	<b>-0.87</b>	<b>-0.44</b>	<b>-0.16</b>	<b>-0.11</b>	<b>0.09</b>	<b>-0.03</b>	<b>-0.31</b>	<b>-1.27</b>	<b>-0.61</b>	49
50	-0.65	-0.65	-0.09	-0.79	-0.23	-0.21	-0.74	-1.40	0.21	-1.50	-0.87	-0.43	0.02	-0.09	0.16	0.00	-0.06	-1.25	-0.54	50
51	-0.07	-0.08	-0.08	-0.07	-0.05	-0.03	-0.03	-0.17	0.00	-0.24	0.00	-0.01	-0.18	-0.02	-0.07	-0.03	-0.26	-0.02	-0.07	51
52	<b>-0.16</b>	<b>0.32</b>	<b>0.14</b>	<b>-0.37</b>	<b>-0.37</b>	<b>-0.53</b>	<b>-0.19</b>	<b>0.02</b>	<b>0.46</b>	<b>-0.07</b>	<b>0.45</b>	<b>0.57</b>	<b>0.34</b>	<b>0.18</b>	<b>0.28</b>	<b>-0.30</b>	<b>0.14</b>	<b>0.03</b>	<b>-0.30</b>	52
53	<b>-0.19</b>	<b>0.00</b>	<b>0.04</b>	<b>-0.41</b>	<b>-0.39</b>	<b>-0.42</b>														

**Table 3. Gross Domestic Product: Level and Change From Preceding Period—Continues**

Line		Billions of dollars							Billions of chained (2009) dollars									Line
		2016	Seasonally adjusted at annual rates						2016	Seasonally adjusted at annual rates					Change from preceding period			
			2016				2017	2016				2017	2016	2016	2017			
			I	II	III	IV	I	I		II	III	IV				I		
1	<b>Gross domestic product (GDP)</b> .....	<b>18,569.1</b>	<b>18,281.6</b>	<b>18,450.1</b>	<b>18,675.3</b>	<b>18,869.4</b>	<b>19,007.3</b>	<b>16,662.1</b>	<b>16,525.0</b>	<b>16,583.1</b>	<b>16,727.0</b>	<b>16,813.3</b>	<b>16,842.4</b>	<b>264.9</b>	<b>86.4</b>	<b>29.0</b>	1	
2	<b>Personal consumption expenditures</b> .....	<b>12,757.9</b>	<b>12,498.0</b>	<b>12,692.7</b>	<b>12,832.2</b>	<b>13,008.9</b>	<b>13,096.4</b>	<b>11,522.2</b>	<b>11,365.2</b>	<b>11,484.9</b>	<b>11,569.0</b>	<b>11,669.8</b>	<b>11,679.5</b>	<b>307.5</b>	<b>100.8</b>	<b>9.7</b>	2	
3	<b>Goods</b> .....	<b>4,098.4</b>	<b>4,008.7</b>	<b>4,085.4</b>	<b>4,111.9</b>	<b>4,187.5</b>	<b>4,216.2</b>	<b>4,048.2</b>	<b>3,964.7</b>	<b>4,032.9</b>	<b>4,067.8</b>	<b>4,127.5</b>	<b>4,128.6</b>	<b>140.8</b>	<b>59.7</b>	<b>1.1</b>	3	
4	Durable goods.....	1,402.9	1,366.6	1,390.0	1,414.0	1,440.9	1,435.0	1,584.6	1,524.9	1,560.9	1,604.4	1,648.2	1,637.7	86.5	43.8	-10.5	4	
5	Motor vehicles and parts.....	474.7	455.7	462.5	481.7	498.9	478.6	432.6	411.8	420.8	440.4	457.2	437.6	13.2	16.9	-19.7	5	
6	Furnishings and durable household equipment.....	316.5	312.5	317.6	317.5	318.4	321.5	374.6	364.7	372.9	378.4	382.4	384.9	23.0	4.1	2.4	6	
7	Recreational goods and vehicles.....	393.0	384.9	391.7	395.1	400.5	413.7	586.9	560.6	579.9	593.5	613.6	635.0	51.9	20.1	21.4	7	
8	Other durable goods.....	218.7	213.6	218.3	219.6	223.1	221.2	216.5	212.4	214.6	217.9	221.2	217.6	7.5	3.4	-3.7	8	
9	Nondurable goods.....	2,695.5	2,642.0	2,695.4	2,697.9	2,746.6	2,781.2	2,500.4	2,471.1	2,505.4	2,502.5	2,522.8	2,532.2	61.1	20.3	9.4	9	
10	Food and beverages purchased for off-premises consumption.....	917.0	904.3	916.5	917.4	929.6	939.8	834.0	816.8	831.6	836.9	850.5	859.2	22.6	13.7	8.6	10	
11	Clothing and footwear.....	383.6	381.7	385.5	384.4	382.6	382.0	368.2	365.4	369.7	368.9	368.9	364.1	4.8	0.0	-4.8	11	
12	Gasoline and other energy goods.....	272.4	254.4	271.5	268.9	294.9	305.5	290.5	291.8	291.6	289.8	288.6	282.7	4.2	-1.2	-5.9	12	
13	Other nondurable goods.....	1,122.6	1,101.7	1,121.9	1,127.2	1,139.6	1,153.9	1,018.2	1,008.3	1,023.0	1,017.1	1,024.5	1,035.4	29.2	7.4	10.9	13	
14	<b>Services</b> .....	<b>8,659.6</b>	<b>8,489.3</b>	<b>8,607.3</b>	<b>8,720.3</b>	<b>8,821.4</b>	<b>8,880.2</b>	<b>7,481.0</b>	<b>7,403.9</b>	<b>7,458.5</b>	<b>7,508.5</b>	<b>7,552.9</b>	<b>7,561.2</b>	<b>170.6</b>	<b>44.3</b>	<b>8.3</b>	14	
15	Household consumption expenditures (for services).....	8,306.5	8,141.2	8,261.2	8,362.2	8,461.4	8,529.7	7,173.2	7,098.2	7,156.2	7,196.7	7,241.7	7,262.0	159.9	45.0	20.3	15	
16	Housing and utilities.....	2,325.8	2,270.5	2,314.4	2,351.7	2,366.6	2,372.3	2,020.1	1,999.0	2,020.9	2,033.9	2,026.8	2,015.2	23.2	-7.1	-11.6	16	
17	Health care.....	2,189.3	2,138.5	2,184.6	2,197.6	2,236.6	2,261.1	1,972.9	1,938.7	1,973.3	1,976.2	2,003.2	2,019.0	86.8	27.0	15.8	17	
18	Transportation services.....	378.2	375.2	374.8	377.8	384.8	390.6	339.0	337.8	336.4	338.5	343.2	344.3	4.3	4.7	1.0	18	
19	Recreation services.....	484.0	479.8	476.7	485.7	493.8	504.6	424.9	425.9	418.8	424.5	430.5	434.7	5.7	6.0	4.3	19	
20	Food services and accommodations.....	851.9	838.8	848.4	857.5	863.0	870.9	722.7	717.2	721.9	725.8	725.9	728.5	19.0	0.0	2.6	20	
21	Financial services and insurance.....	957.7	936.1	947.4	968.4	979.0	986.4	720.9	716.7	715.8	723.6	727.5	730.9	2.1	3.9	3.4	21	
22	Other services.....	1,119.5	1,102.3	1,114.9	1,123.4	1,137.5	1,143.8	980.6	969.8	977.5	981.8	993.3	998.5	22.2	11.5	5.2	22	
23	Final consumption expenditures of nonprofit institutions serving households.....	353.1	348.1	346.1	358.1	360.0	350.5	307.8	305.7	302.4	311.9	311.2	299.2	10.9	-0.7	-12.0	23	
24	Gross output of nonprofit institutions and services by nonprofit institutions.....	1,412.9	1,378.3	1,403.6	1,423.0	1,446.6	1,451.1	1,226.9	1,206.2	1,222.4	1,233.1	1,246.1	1,242.1	42.1	13.0	-4.0	24	
25	Less: Receipts from sales of goods and services by nonprofit institutions.....	1,059.8	1,030.3	1,057.5	1,064.8	1,086.6	1,100.6	919.1	900.4	919.9	921.2	934.8	942.9	31.4	13.6	8.0	25	
26	<b>Gross private domestic investment</b> .....	<b>3,035.7</b>	<b>3,036.8</b>	<b>2,987.5</b>	<b>3,017.2</b>	<b>3,101.4</b>	<b>3,146.5</b>	<b>2,824.6</b>	<b>2,841.5</b>	<b>2,783.8</b>	<b>2,804.7</b>	<b>2,868.2</b>	<b>2,898.4</b>	<b>-44.5</b>	<b>63.5</b>	<b>30.1</b>	26	
27	<b>Fixed investment</b> .....	<b>3,014.8</b>	<b>2,994.8</b>	<b>3,002.5</b>	<b>3,013.1</b>	<b>3,049.0</b>	<b>3,138.0</b>	<b>2,785.9</b>	<b>2,786.7</b>	<b>2,778.8</b>	<b>2,779.3</b>	<b>2,798.9</b>	<b>2,869.1</b>	<b>18.2</b>	<b>19.6</b>	<b>70.2</b>	27	
28	Nonresidential.....	2,308.8	2,292.4	2,304.7	2,313.8	2,324.2	2,385.0	2,188.6	2,179.7	2,185.0	2,192.5	2,197.2	2,247.1	-11.6	4.8	49.9	28	
29	Structures.....	493.8	486.0	487.3	500.5	501.3	530.8	439.2	435.2	432.9	445.3	443.2	465.9	-12.9	-2.2	22.7	29	
30	Equipment.....	1,057.0	1,066.3	1,058.7	1,049.3	1,053.5	1,079.2	1,041.4	1,052.0	1,044.1	1,032.2	1,037.2	1,060.0	-31.1	4.9	22.9	30	
31	Information processing equipment.....	321.0	319.9	316.8	322.8	324.4	334.3	346.9	345.5	341.2	348.7	352.3	364.1	8.2	3.7	11.8	31	
32	Computers and peripheral equipment.....	76.4	76.0	78.2	77.0	74.4	76.8	87.7	86.9	89.3	88.3	86.3	88.8	-1.1	-2.0	2.5	32	
33	Other.....	244.6	243.9	238.6	245.8	250.0	257.5	258.2	257.6	251.2	259.3	264.8	273.9	9.0	5.4	9.2	33	
34	Industrial equipment.....	226.1	222.2	227.3	226.1	228.7	236.5	212.9	209.4	214.2	212.8	215.3	222.0	5.6	2.5	6.7	34	
35	Transportation equipment.....	293.1	301.3	297.6	286.7	286.6	292.6	283.9	293.7	289.7	276.5	275.7	278.3	-18.2	-0.8	2.6	35	
36	Other equipment.....	216.8	222.9	217.0	213.7	213.8	215.8	205.9	211.3	206.6	202.8	202.7	205.3	-25.0	-0.1	2.5	36	
37	Intellectual property products.....	758.0	740.1	758.7	763.9	769.4	775.1	711.9	697.1	712.2	717.9	720.2	723.8	31.9	2.3	3.6	37	
38	Software.....	340.4	336.0	339.4	342.6	343.7	346.2	348.1	342.2	346.0	351.6	352.4	356.4	14.9	0.8	3.9	38	
39	Research and development.....	335.5	323.0	337.9	338.8	342.3	345.5	285.5	277.5	288.6	287.6	288.3	288.7	15.3	0.7	0.4	39	
40	Entertainment, literary, and artistic originals.....	82.1	81.1	81.4	82.5	83.4	83.4	79.2	78.6	78.0	79.7	80.5	80.0	1.4	0.8	-0.5	40	
41	Residential.....	706.1	702.4	697.8	699.3	724.8	753.0	591.9	600.7	588.7	582.5	596.0	615.4	27.4	13.5	19.5	41	
42	<b>Change in private inventories</b> .....	<b>20.9</b>	<b>41.9</b>	<b>-15.0</b>	<b>4.1</b>	<b>52.4</b>	<b>8.5</b>	<b>22.0</b>	<b>40.7</b>	<b>-9.5</b>	<b>7.1</b>	<b>49.6</b>	<b>10.3</b>	<b>-62.0</b>	<b>42.5</b>	<b>-39.2</b>	42	
43	Farm.....	-6.4	-8.3	-5.5	-2.7	-9.2	-7.5	-3.4	-5.1	-2.6	0.0	-5.8	-4.1	-1.8	-5.8	1.7	43	
44	Nonfarm.....	27.3	50.3	-9.4	6.7	61.5	16.0	26.0	47.5	-6.6	7.2	55.8	14.5	-62.2	48.6	-41.2	44	
45	<b>Net exports of goods and services</b> .....	<b>-501.3</b>	<b>-507.4</b>	<b>-492.4</b>	<b>-460.0</b>	<b>-545.2</b>	<b>-558.4</b>	<b>-563.0</b>	<b>-566.3</b>	<b>-558.5</b>	<b>-522.2</b>	<b>-605.0</b>	<b>-602.7</b>	<b>-23.0</b>	<b>-82.8</b>	<b>2.3</b>	45	
46	<b>Exports</b> .....	<b>2,232.4</b>	<b>2,179.0</b>	<b>2,209.7</b>	<b>2,276.3</b>	<b>2,264.8</b>	<b>2,316.2</b>	<b>2,128.2</b>	<b>2,102.0</b>	<b>2,111.3</b>	<b>2,162.0</b>	<b>2,137.4</b>	<b>2,167.5</b>	<b>7.6</b>	<b>-24.6</b>	<b>30.1</b>	46	
47	Goods.....	1,454.9	1,410.9	1,437.2	1,495.4	1,476.0	1,519.6	1,446.8	1,424.1	1,430.1	1,479.2	1,453.6	1,482.8	8.7	-25.5	29.1	47	
48	Services.....	777.6	768.1	772.5	780.9	788.8	796.6	681.4	677.3	680.5	683.9	683.8	685.8	-0.5	-0.1	2.0	48	
49	<b>Imports</b> .....	<b>2,733.7</b>	<b>2,686.3</b>	<b>2,702.2</b>	<b>2,736.2</b>	<b>2,810.0</b>	<b>2,874.6</b>	<b>2,691.2</b>	<b>2,668.2</b>	<b>2,669.7</b>	<b>2,684.3</b>	<b>2,742.4</b>	<b>2,770.3</b>	<b>30.6</b>	<b>58.2</b>	<b>27.8</b>	49	
50	Goods.....	2,225.6	2,185.7	2,199.4	2,222.7	2,294.6	2,354.4	2,210.1	2,194.1	2,194.3	2,197.2	2,254.9	2,279.7	16.0	57.8	24.7	50	
51	Services.....	508.1	500.7	502.7	513.5	515.4	520.1	478.7	471.9	473.2	484.4	485.1	488.3	14.2	0.8	3.2	51	

1. Real gross domestic income is gross domestic income deflated by the implicit price deflator for gross domestic product.  
 NOTE: Users are cautioned that particularly for components that exhibit rapid change in prices relative to other prices in the economy, the chained-dollar estimates should not be used to measure the component's relative importance or its contribution to the growth rate of more aggregate series. For accurate estimates of the contributions to percent changes in real gross domestic product, use table 2.  
 See Explanatory Note at the end of the tables.

**Table 3. Gross Domestic Product: Level and Change From Preceding Period—Table Ends**

Line		Billions of dollars						Billions of chained (2009) dollars									Line
		2016	Seasonally adjusted at annual rates					2016	Seasonally adjusted at annual rates					Change from preceding period			
			2016				2017		2016				2017	2016	2016	2017	
			I	II	III	IV	I		I	II	III	IV	I				
52	<b>Government consumption expenditures and gross investment</b> .....	<b>3,276.7</b>	<b>3,254.3</b>	<b>3,262.3</b>	<b>3,285.9</b>	<b>3,304.3</b>	<b>3,322.7</b>	<b>2,907.0</b>	<b>2,913.2</b>	<b>2,900.9</b>	<b>2,906.4</b>	<b>2,907.6</b>	<b>2,895.2</b>	<b>23.3</b>	<b>1.3</b>	<b>-12.4</b>	52
53	<b>Federal</b> .....	<b>1,244.5</b>	<b>1,233.8</b>	<b>1,239.2</b>	<b>1,251.8</b>	<b>1,253.2</b>	<b>1,260.3</b>	<b>1,120.5</b>	<b>1,118.7</b>	<b>1,117.7</b>	<b>1,124.4</b>	<b>1,121.0</b>	<b>1,115.5</b>	<b>6.6</b>	<b>-3.4</b>	<b>-5.5</b>	53
54	National defense .....	732.2	731.4	729.3	736.0	732.0	732.1	667.0	670.9	665.5	668.9	662.8	656.1	-5.0	-6.1	-6.7	54
55	Consumption expenditures.....	587.6	587.0	585.8	591.3	586.3	584.0	531.7	535.3	531.0	533.5	526.9	518.2	-7.6	-6.6	-8.7	55
56	Gross investment .....	144.6	144.3	143.5	144.7	145.7	148.1	135.1	135.3	134.3	135.1	135.7	137.9	2.7	0.6	2.1	56
57	Nondefense.....	512.3	502.4	509.9	515.8	521.2	528.2	452.6	447.2	451.4	454.7	457.3	458.3	11.4	2.6	1.1	57
58	Consumption expenditures.....	390.5	382.0	388.8	393.7	397.4	402.5	341.1	336.4	340.4	343.0	344.7	344.5	10.2	1.6	-0.2	58
59	Gross investment .....	121.9	120.5	121.1	122.2	123.8	125.7	111.3	110.6	110.8	111.5	112.4	113.7	1.0	0.9	1.3	59
60	<b>State and local</b> .....	<b>2,032.2</b>	<b>2,020.5</b>	<b>2,023.1</b>	<b>2,034.1</b>	<b>2,051.1</b>	<b>2,062.4</b>	<b>1,784.8</b>	<b>1,792.6</b>	<b>1,781.4</b>	<b>1,780.4</b>	<b>1,784.9</b>	<b>1,778.0</b>	<b>16.6</b>	<b>4.5</b>	<b>-7.0</b>	60
61	Consumption expenditures .....	1,677.1	1,654.0	1,669.2	1,687.4	1,697.9	1,717.1	1,468.3	1,463.6	1,466.3	1,471.6	1,471.7	1,473.7	15.9	0.1	2.0	61
62	Gross investment .....	355.1	366.5	353.9	346.7	353.2	345.3	315.8	328.3	314.3	308.0	312.4	303.3	0.8	4.5	-9.1	62
63	Residual.....							-106.0	-98.2	-104.3	-110.0	-111.6	-121.3				63
	<b>Addenda:</b>																
64	Gross domestic income (GDI) <sup>1</sup> .....	18,834.0	18,546.0	18,684.0	18,979.9	19,126.2		16,899.8	16,763.9	16,793.4	16,999.8	17,042.1		272.0	42.3		64
65	Average of GDP and GDI .....	18,701.6	18,413.8	18,567.0	18,827.6	18,997.8		16,781.0	16,644.5	16,688.3	16,863.4	16,927.7		268.5	64.3		65
66	Final sales of domestic product .....	18,548.2	18,239.7	18,465.0	18,671.2	18,817.0	18,998.8	16,626.1	16,473.5	16,579.5	16,703.6	16,747.7	16,815.7	325.4	44.1	68.0	66
67	Gross domestic purchases .....	19,070.4	18,789.0	18,942.5	19,135.2	19,414.6	19,565.7	17,225.8	17,091.5	17,142.6	17,252.6	17,416.4	17,442.6	288.0	163.7	26.2	67
68	Final sales to domestic purchasers.....	19,049.5	18,747.1	18,957.5	19,131.2	19,362.2	19,557.2	17,190.4	17,040.5	17,139.9	17,230.0	17,351.2	17,416.6	348.8	121.1	65.5	68
69	Final sales to private domestic purchasers...	15,772.8	15,492.8	15,695.2	15,845.2	16,057.9	16,234.5	14,295.5	14,138.7	14,251.0	14,335.9	14,456.3	14,534.9	326.4	120.4	78.5	69
70	<b>Gross domestic product</b> .....	<b>18,569.1</b>	<b>18,281.6</b>	<b>18,450.1</b>	<b>18,675.3</b>	<b>18,869.4</b>	<b>19,007.3</b>	<b>16,662.1</b>	<b>16,525.0</b>	<b>16,583.1</b>	<b>16,727.0</b>	<b>16,813.3</b>	<b>16,842.4</b>	<b>264.9</b>	<b>86.4</b>	<b>29.0</b>	70
71	Plus: Income receipts from the rest of the world.....	842.6	807.0	848.3	848.9	866.4		695.7	671.0	701.8	699.6	710.5		16.6	10.9		71
72	Less: Income payments to the rest of the world.....	635.8	634.5	640.5	644.9	623.4		521.2	524.0	526.0	527.4	507.3		16.4	-20.2		72
73	<b>Equals: Gross national product</b> .....	<b>18,776.0</b>	<b>18,454.2</b>	<b>18,657.9</b>	<b>18,879.3</b>	<b>19,112.4</b>		<b>16,835.2</b>	<b>16,668.3</b>	<b>16,757.6</b>	<b>16,897.4</b>	<b>17,017.6</b>		<b>264.9</b>	<b>120.2</b>		73
74	Net domestic product .....	15,658.7	15,408.1	15,548.3	15,753.6	15,924.7	16,033.5	13,976.1	13,857.5	13,902.9	14,034.6	14,109.6	14,127.0	209.9	75.0	17.4	74

1. Real gross domestic income is gross domestic income deflated by the implicit price deflator for gross domestic product.  
 NOTE: Users are cautioned that particularly for components that exhibit rapid change in prices relative to other prices in the economy, the chained-dollar estimates should not be used to measure the component's relative importance or its contribution to the growth rate of more aggregate series. For accurate estimates of the contributions to percent changes in real gross domestic product, use table 2.  
 See *Explanatory Note* at the end of the tables.



**Table 4. Price Indexes for Gross Domestic Product and Related Measures: Percent Change From Preceding Period**

Line		2014	2015	2016	Seasonally adjusted at annual rates																Line
					2013			2014				2015				2016				2017	
					II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	
1	<b>Gross domestic product (GDP).....</b>	1.8	1.1	1.3	0.9	2.1	2.1	1.7	2.1	1.7	0.5	-0.1	2.3	1.3	0.8	0.5	2.3	1.4	2.1	2.3	1
2	<b>Personal consumption expenditures.....</b>	1.5	0.3	1.1	0.2	1.5	1.7	2.0	1.9	1.1	0.0	-1.6	1.8	1.1	0.4	0.3	2.0	1.5	2.0	2.4	2
3	Goods.....	-0.4	-2.9	-1.4	-3.7	0.3	0.0	0.6	0.2	-1.0	-3.5	-8.0	1.2	-0.9	-2.6	-4.0	0.8	-0.9	1.5	2.7	3
4	Durable goods.....	-2.3	-2.1	-2.1	-2.4	-2.6	-2.1	-2.4	-1.9	-2.3	-3.0	-2.2	-0.6	-2.6	-1.8	-0.9	-2.5	-4.1	-3.2	0.9	4
5	Nondurable goods.....	0.6	-3.3	-1.0	-4.3	1.8	1.0	2.0	1.3	-0.3	-3.7	-10.8	2.2	0.0	-2.9	-5.6	2.5	0.8	4.0	3.6	5
6	Services.....	2.5	2.0	2.3	2.2	2.1	2.7	2.7	2.7	2.1	1.8	1.7	2.1	2.2	1.8	2.4	2.6	2.6	2.3	2.2	6
7	<b>Gross private domestic investment.....</b>	2.1	0.8	0.9	1.9	1.9	1.9	3.0	1.4	2.4	1.8	-0.1	-0.1	1.2	0.3	0.6	1.8	1.1	2.0	1.7	7
8	Fixed investment.....	2.3	1.0	1.1	2.0	2.0	2.3	3.2	1.4	2.4	1.7	0.5	-0.3	1.3	0.4	0.6	2.2	1.4	1.9	1.6	8
9	Nonresidential.....	1.4	0.6	0.4	1.2	1.2	1.0	1.8	1.5	1.2	0.9	0.6	-0.3	0.8	-0.1	0.2	1.2	0.2	0.9	1.4	9
10	Structures.....	3.8	0.0	0.2	4.0	2.7	4.8	4.6	3.3	3.2	1.9	-2.3	-2.5	0.9	-0.2	-1.5	3.2	-0.6	2.6	2.9	10
11	Equipment.....	0.4	0.8	0.2	-0.3	0.5	-1.8	1.2	1.5	0.8	1.1	1.5	0.0	0.1	0.1	0.3	0.1	1.0	-0.3	0.9	11
12	Intellectual property products.....	1.0	0.8	0.9	1.6	1.2	2.7	0.8	0.1	0.4	-0.2	1.6	0.8	1.8	-0.2	1.3	1.4	-0.4	1.6	1.0	12
13	Residential.....	6.0	2.4	3.3	5.3	5.4	7.6	8.7	1.3	7.1	4.9	0.2	-0.1	2.9	2.2	2.0	5.6	5.2	5.3	2.4	13
14	Change in private inventories.....																				14
15	<b>Net exports of goods and services.....</b>																				15
16	Exports.....	0.1	-4.8	-1.8	-2.9	0.7	-0.3	3.2	0.0	-1.0	-6.8	-9.2	-0.9	-4.0	-5.5	-5.1	3.9	2.4	2.6	3.4	16
17	Goods.....	-0.9	-6.8	-3.5	-4.4	0.1	-1.7	3.5	-1.1	-2.4	-9.5	-12.1	-1.8	-5.8	-7.8	-10.0	5.9	2.4	1.8	3.8	17
18	Services.....	2.1	-0.5	1.6	0.5	1.9	2.9	2.4	2.3	2.3	-0.6	-3.2	0.8	-0.4	-1.1	4.8	0.4	2.4	4.2	2.8	18
19	Imports.....	-0.2	-7.6	-3.0	-4.2	-1.8	0.0	5.2	-1.6	-2.1	-7.0	-15.5	-4.8	-4.5	-7.6	-6.0	2.1	2.9	2.1	5.2	19
20	Goods.....	-0.6	-8.9	-3.6	-5.0	-2.4	-0.9	5.9	-2.1	-2.7	-8.0	-17.8	-5.9	-5.0	-9.0	-7.3	2.5	3.7	2.4	6.1	20
21	Services.....	1.7	-1.3	-0.5	-0.1	1.1	4.7	1.9	1.3	0.9	-1.6	-3.7	0.7	-2.2	-1.3	-0.1	0.6	-0.8	0.8	1.1	21
22	<b>Government consumption expenditures and gross investment.....</b>	2.0	0.3	1.0	1.1	1.9	3.7	1.8	1.9	2.0	0.0	-2.1	2.2	0.5	0.1	-0.4	2.7	2.1	2.1	4.0	22
23	Federal.....	1.7	0.5	1.0	0.9	1.6	6.3	-0.7	1.6	1.5	0.2	0.2	0.9	0.0	-0.8	1.5	2.1	1.7	1.7	4.3	23
24	National defense.....	1.4	0.2	0.8	0.4	1.3	4.2	0.4	1.1	1.2	-0.1	-0.3	0.8	-0.2	-0.9	0.9	2.1	1.6	1.5	4.2	24
25	Nondefense.....	2.2	1.0	1.3	1.7	2.1	9.8	-2.6	2.3	2.0	0.7	0.9	1.1	0.3	-0.6	2.3	2.2	1.7	1.9	4.5	25
26	State and local.....	2.2	0.2	1.0	1.2	2.0	2.0	3.4	2.1	2.3	-0.1	-3.5	3.0	0.8	0.6	-1.6	3.1	2.4	2.3	3.8	26
	<b>Addenda:</b>																				
27	Final sales of domestic product.....	1.8	1.1	1.3	0.9	2.1	2.2	1.8	2.1	1.7	0.5	0.0	2.3	1.3	0.9	0.5	2.4	1.5	2.1	2.2	27
28	Gross domestic purchases.....	1.7	0.4	1.0	0.6	1.6	2.1	2.1	1.8	1.5	0.3	-1.4	1.6	1.0	0.3	0.2	2.1	1.5	2.0	2.6	28
29	Final sales to domestic purchasers.....	1.7	0.4	1.1	0.6	1.6	2.2	2.1	1.8	1.4	0.3	-1.4	1.5	1.0	0.3	0.2	2.2	1.6	2.0	2.5	29
30	Final sales to private domestic purchasers.....	1.7	0.5	1.1	0.5	1.6	1.8	2.2	1.8	1.3	0.3	-1.2	1.4	1.2	0.4	0.3	2.0	1.4	2.0	2.2	30
31	Gross national product (GNP).....	1.8	1.0	1.3	0.9	2.1	2.1	1.7	2.1	1.7	0.5	-0.1	2.3	1.3	0.8	0.5	2.3	1.4	2.1	.....	31
	<b>Implicit price deflators:</b>																				
32	GDP.....	1.8	1.1	1.3	0.8	1.9	2.1	1.8	2.2	1.7	0.5	0.0	2.2	1.2	0.9	0.5	2.3	1.4	2.1	2.2	32
33	Gross domestic purchases.....	1.7	0.4	1.0	0.5	1.5	2.1	2.2	1.9	1.4	0.3	-1.4	1.5	1.0	0.4	0.2	2.1	1.5	2.0	2.5	33
34	GNP.....	1.8	1.0	1.3	0.8	1.9	2.1	1.8	2.2	1.7	0.5	0.0	2.2	1.2	0.9	0.4	2.3	1.4	2.1	.....	34

See Explanatory Note at the end of the tables.

**Table 5. Real Gross Domestic Product, Quantity Indexes**

[Index numbers, 2009=100]

Line		2014	2015	2016	Seasonally adjusted					Line
					2016				2017	
					I	II	III	IV	I	
1	<b>Gross domestic product</b> .....	<b>110.844</b>	<b>113.721</b>	<b>115.559</b>	<b>114.608</b>	<b>115.011</b>	<b>116.009</b>	<b>116.607</b>	<b>116.809</b>	1
2	<b>Personal consumption expenditures</b> .....	<b>110.378</b>	<b>113.890</b>	<b>117.013</b>	<b>115.418</b>	<b>116.633</b>	<b>117.488</b>	<b>118.512</b>	<b>118.610</b>	2
3	Goods .....	117.414	122.166	126.568	123.957	126.089	127.180	129.046	129.080	3
4	Durable goods.....	136.919	146.395	154.850	149.013	152.538	156.784	161.064	160.038	4
5	Nondurable goods.....	109.253	112.146	114.957	113.608	115.185	115.049	115.984	116.416	5
6	Services.....	107.004	109.954	112.520	111.361	112.184	112.935	113.602	113.727	6
7	<b>Gross private domestic investment</b> .....	<b>145.549</b>	<b>152.761</b>	<b>150.393</b>	<b>151.294</b>	<b>148.226</b>	<b>149.336</b>	<b>152.719</b>	<b>154.322</b>	7
8	Fixed investment.....	131.342	136.633	137.531	137.570	137.179	137.202	138.171	141.636	8
9	Nonresidential .....	131.967	134.697	133.987	133.442	133.766	134.223	134.516	137.570	9
10	Structures.....	107.918	103.166	100.215	99.317	98.794	101.623	101.128	106.312	10
11	Equipment.....	160.752	166.451	161.625	163.270	162.053	160.207	160.972	164.524	11
12	Intellectual property products .....	117.733	123.422	129.210	126.532	129.279	130.303	130.726	131.373	12
13	Residential .....	128.846	143.923	150.914	153.133	150.079	148.505	151.938	156.901	13
14	Change in private inventories .....									14
15	<b>Exports of goods and services</b> .....	<b>133.414</b>	<b>133.560</b>	<b>134.039</b>	<b>132.389</b>	<b>132.974</b>	<b>136.170</b>	<b>134.621</b>	<b>136.517</b>	15
16	<b>Imports of goods and services</b> .....	<b>128.279</b>	<b>134.155</b>	<b>135.700</b>	<b>134.544</b>	<b>134.620</b>	<b>135.352</b>	<b>138.285</b>	<b>139.688</b>	16
17	<b>Government consumption expenditures and gross investment</b> ...	<b>91.710</b>	<b>93.350</b>	<b>94.105</b>	<b>94.304</b>	<b>93.907</b>	<b>94.085</b>	<b>94.126</b>	<b>93.724</b>	17
18	Federal.....	91.471	91.472	92.015	91.874	91.791	92.337	92.060	91.610	18
19	State and local .....	91.806	94.485	95.375	95.790	95.192	95.137	95.379	95.007	19
	<b>Addenda:</b>									
20	Final sales of domestic product .....	109.245	111.906	114.141	113.093	113.821	114.673	114.975	115.442	20
21	Gross domestic purchases .....	110.765	114.335	116.279	115.373	115.718	116.460	117.566	117.743	21
22	Final sales to domestic purchasers .....	109.212	112.565	114.896	113.894	114.558	115.161	115.970	116.408	22
23	Final sales to private domestic purchasers.....	113.849	117.658	120.407	119.086	120.032	120.747	121.762	122.423	23
24	Gross national product.....	111.138	113.731	115.549	114.403	115.016	115.975	116.800	.....	24

See *Explanatory Note* at the end of the tables.

**Table 6. Price Indexes for Gross Domestic Product**

[Index numbers, 2009=100]

Line		2014	2015	2016	Seasonally adjusted					Line
					2016				2017	
					I	II	III	IV	I	
1	<b>Gross domestic product</b> .....	<b>108.838</b>	<b>109.999</b>	<b>111.451</b>	<b>110.635</b>	<b>111.268</b>	<b>111.662</b>	<b>112.238</b>	<b>112.868</b>	1
2	<b>Personal consumption expenditures (PCE)</b> .....	<b>109.150</b>	<b>109.532</b>	<b>110.721</b>	<b>109.969</b>	<b>110.519</b>	<b>110.921</b>	<b>111.477</b>	<b>112.134</b>	2
3	Goods .....	105.727	102.680	101.237	101.109	101.301	101.083	101.454	102.123	3
4	Durable goods .....	92.411	90.463	88.553	89.619	89.045	88.128	87.418	87.620	4
5	Nondurable goods .....	112.595	108.920	107.795	106.917	107.582	107.809	108.873	109.834	5
6	Services.....	110.946	113.149	115.752	114.663	115.405	116.142	116.798	117.448	6
7	<b>Gross private domestic investment</b> .....	<b>105.655</b>	<b>106.539</b>	<b>107.518</b>	<b>106.889</b>	<b>107.366</b>	<b>107.649</b>	<b>108.171</b>	<b>108.634</b>	7
8	Fixed investment .....	106.030	107.062	108.216	107.467	108.048	108.412	108.936	109.374	8
9	Nonresidential.....	104.423	105.051	105.489	105.172	105.476	105.532	105.778	106.135	9
10	Structures.....	112.213	112.202	112.445	111.682	112.566	112.402	113.130	113.936	10
11	Equipment.....	100.482	101.277	101.497	101.366	101.392	101.655	101.575	101.804	11
12	Intellectual property products.....	104.772	105.583	106.486	106.168	106.526	106.416	106.833	107.092	12
13	Residential.....	112.795	115.479	119.303	116.952	118.553	120.070	121.637	122.373	13
14	Change in private inventories .....									14
15	<b>Exports of goods and services</b> .....	<b>112.134</b>	<b>106.778</b>	<b>104.899</b>	<b>103.669</b>	<b>104.671</b>	<b>105.292</b>	<b>105.965</b>	<b>106.865</b>	15
16	<b>Imports of goods and services</b> .....	<b>113.368</b>	<b>104.726</b>	<b>101.569</b>	<b>100.675</b>	<b>101.211</b>	<b>101.933</b>	<b>102.459</b>	<b>103.761</b>	16
17	<b>Government consumption expenditures and gross investment</b> .....	<b>111.263</b>	<b>111.605</b>	<b>112.720</b>	<b>111.713</b>	<b>112.462</b>	<b>113.061</b>	<b>113.643</b>	<b>114.768</b>	17
18	Federal .....	109.431	109.979	111.069	110.286	110.869	111.331	111.791	112.981	18
19	State and local.....	112.522	112.732	113.864	112.715	113.570	114.254	114.916	116.000	19
	<b>Addenda:</b>									
20	PCE excluding food and energy <sup>1</sup> .....	108.048	109.540	111.356	110.657	111.150	111.626	111.991	112.544	20
21	Market-based PCE <sup>2</sup> .....	108.219	108.179	109.087	108.395	108.893	109.249	109.811	110.461	21
22	Market-based PCE excluding food and energy <sup>2</sup> .....	106.800	107.957	109.533	108.911	109.336	109.770	110.115	110.647	22
23	Final sales of domestic product.....	108.891	110.077	111.560	110.724	111.375	111.782	112.359	112.985	23
24	Gross domestic purchases .....	109.109	109.569	110.713	109.936	110.509	110.925	111.481	112.185	24
25	Final sales to domestic purchasers .....	109.159	109.640	110.813	110.017	110.606	111.036	111.592	112.292	25
26	Final sales to private domestic purchasers .....	108.637	109.148	110.331	109.579	110.135	110.530	111.081	111.695	26
27	Gross national product .....	108.957	110.090	111.533	110.719	111.350	111.743	112.318	.....	27
	<b>Implicit price deflators:</b>									
28	Gross domestic product.....	108.828	109.998	111.445	110.630	111.258	111.648	112.229	112.854	28
29	Final sales of domestic product .....	108.891	110.077	111.561	110.722	111.372	111.780	112.356	112.983	29
30	Gross domestic purchases .....	109.099	109.569	110.708	109.932	110.500	110.912	111.473	112.172	30
31	Final sales to domestic purchasers .....	109.159	109.640	110.815	110.015	110.604	111.034	111.590	112.290	31
32	Gross national product.....	108.947	110.090	111.528	110.714	111.340	111.729	112.310	.....	32

1. Food excludes personal consumption expenditures for purchased meals and beverages, which are classified in food services.

2. This index is a supplemental measure that is based on household expenditures for which there are observable price measures. It excludes most implicit prices (for example, financial services furnished without payment) and the final consumption expenditures of nonprofit institutions serving households. Percentage changes for these series are included in the addenda to table 8 and appendix table A. See *Explanatory Note* at the end of the tables.

**Table 7. Real Gross Domestic Product: Annual Percent Change**

Line		Percent change from preceding year								Percent change fourth quarter to fourth quarter								Line
		2009	2010	2011	2012	2013	2014	2015	2016	2009	2010	2011	2012	2013	2014	2015	2016	
1	<b>Gross domestic product (GDP)</b> .....	-2.8	2.5	1.6	2.2	1.7	2.4	2.6	1.6	-0.2	2.7	1.7	1.3	2.7	2.5	1.9	2.0	1
2	<b>Personal consumption expenditures (PCE)</b> .....	-1.6	1.9	2.3	1.5	1.5	2.9	3.2	2.7	-0.2	3.1	1.5	1.3	2.0	3.5	2.6	3.1	2
3	Goods.....	-3.0	3.4	3.1	2.7	3.1	3.9	4.0	3.6	0.9	5.1	1.7	2.8	3.5	4.6	3.3	4.4	3
4	Durable goods.....	-5.5	6.1	6.1	7.4	6.2	6.7	6.9	5.8	2.5	9.3	4.8	7.2	5.2	8.6	5.5	7.9	4
5	Nondurable goods.....	-1.8	2.2	1.8	0.6	1.7	2.6	2.6	2.5	0.2	3.3	0.4	0.8	2.6	2.8	2.3	2.6	5
6	Services.....	-0.9	1.2	1.8	0.8	0.6	2.3	2.8	2.3	-0.8	2.0	1.4	0.6	1.3	2.9	2.2	2.5	6
7	<b>Gross private domestic investment</b> .....	-21.6	12.9	5.2	10.6	6.1	4.5	5.0	-1.6	-11.0	11.1	9.6	3.7	9.3	3.8	2.6	0.1	7
8	Fixed investment.....	-16.7	1.5	6.3	9.8	5.0	5.5	4.0	0.7	-11.9	5.5	8.4	7.0	5.2	5.3	3.4	0.2	8
9	Nonresidential.....	-15.6	2.5	7.7	9.0	3.5	6.0	2.1	-0.5	-12.2	8.1	9.0	5.2	4.8	5.0	0.8	-0.1	9
10	Structures.....	-18.9	-16.4	2.3	12.9	1.4	10.3	-4.4	-2.9	-27.1	-4.0	8.0	4.1	5.8	8.0	-8.8	1.9	10
11	Equipment.....	-22.9	15.9	13.6	10.8	4.6	5.4	3.5	-2.9	-11.5	20.9	13.1	6.9	6.1	2.9	3.7	-3.8	11
12	Intellectual property products.....	-1.4	1.9	3.6	3.9	3.4	3.9	4.8	4.7	1.3	1.8	4.1	3.4	2.2	6.1	3.8	4.3	12
13	Residential.....	-21.2	-2.5	0.5	13.5	11.9	3.5	11.7	4.9	-10.8	-5.2	6.0	15.7	6.8	6.2	13.1	1.1	13
14	Change in private inventories.....																	14
15	<b>Net exports of goods and services</b> .....																	15
16	Exports.....	-8.8	11.9	6.9	3.4	3.5	4.3	0.1	0.4	0.8	10.1	4.2	2.2	5.9	3.1	-2.2	1.5	16
17	Goods.....	-12.1	14.4	6.5	3.6	3.1	4.4	-0.6	0.6	-0.2	10.9	4.8	1.2	7.0	2.7	-3.4	2.1	17
18	Services.....	-1.1	6.8	7.6	3.0	4.4	3.9	1.6	-0.1	3.2	8.4	2.7	4.5	3.6	3.9	0.5	0.4	18
19	Imports.....	-13.7	12.7	5.5	2.2	1.1	4.4	4.6	1.2	-6.2	12.0	3.5	0.3	2.5	6.1	2.5	2.6	19
20	Goods.....	-15.8	14.9	5.8	2.1	1.2	4.8	4.9	0.7	-6.7	13.6	3.4	0.1	2.7	6.5	2.7	2.4	20
21	Services.....	-3.8	3.8	4.0	3.0	0.6	2.6	2.9	3.1	-4.2	4.9	3.8	1.2	1.1	4.0	1.9	3.4	21
22	<b>Government consumption expenditures and gross investment</b> .....	3.2	0.1	-3.0	-1.9	-2.9	-0.9	1.8	0.8	2.3	-1.1	-3.0	-2.2	-2.8	0.3	2.2	0.2	22
23	Federal.....	5.7	4.4	-2.7	-1.9	-5.8	-2.5	0.0	0.6	3.9	3.2	-4.0	-2.1	-6.7	-1.3	1.7	-0.2	23
24	National defense.....	5.4	3.2	-2.3	-3.4	-6.8	-4.1	-2.1	-0.7	3.6	2.0	-4.1	-3.9	-7.1	-4.1	0.6	-2.0	24
25	Nondefense.....	6.2	6.4	-3.4	0.9	-4.1	0.1	3.3	2.6	4.6	5.5	-3.9	1.0	-6.0	3.4	3.4	2.5	25
26	State and local.....	1.6	-2.7	-3.3	-1.9	-0.8	0.2	2.9	0.9	1.3	-4.0	-2.3	-2.3	-0.1	1.3	2.5	0.4	26
	<b>Addenda:</b>																	
27	Gross domestic income (GDI) <sup>1</sup> .....	-2.6	2.7	2.2	3.3	1.2	3.0	2.5	1.6	0.3	2.6	2.1	2.8	1.3	4.0	1.5	1.9	27
28	Average of GDP and GDI.....	-2.7	2.6	1.9	2.7	1.5	2.7	2.6	1.6	0.0	2.7	1.9	2.1	2.0	3.2	1.7	1.9	28
29	Final sales of domestic product.....	-2.0	1.1	1.7	2.1	1.5	2.5	2.4	2.0	-0.4	2.0	1.5	1.7	2.0	2.7	2.0	2.0	29
30	Gross domestic purchases.....	-3.8	2.9	1.6	2.1	1.3	2.4	3.2	1.7	-1.3	3.2	1.7	1.0	2.2	3.0	2.5	2.1	30
31	Final sales to domestic purchasers.....	-3.1	1.5	1.7	1.9	1.2	2.6	3.1	2.1	-1.4	2.5	1.5	1.4	1.6	3.2	2.6	2.1	31
32	Final sales to private domestic purchasers.....	-4.6	1.9	2.9	2.9	2.1	3.4	3.3	2.3	-2.4	3.5	2.6	2.3	2.6	3.8	2.7	2.5	32
33	Gross national product.....	-2.9	2.8	1.8	2.1	1.7	2.3	2.3	1.6	0.1	2.9	2.0	1.0	2.7	2.3	1.7	2.1	33
34	Real disposable personal income.....	-0.4	1.0	2.5	3.2	-1.4	3.5	3.5	2.8	-0.7	2.6	1.7	5.1	-2.8	4.5	3.0	2.5	34
	<b>Price indexes:</b>																	
35	Gross domestic purchases.....	-0.2	1.5	2.4	1.8	1.4	1.7	0.4	1.0	0.3	1.6	2.4	1.7	1.4	1.4	0.4	1.5	35
36	Gross domestic purchases excluding food and energy <sup>2</sup> .....	0.5	1.3	1.8	1.8	1.5	1.8	1.1	1.4	0.5	1.4	1.9	1.7	1.7	1.6	1.0	1.7	36
37	GDP.....	0.8	1.2	2.1	1.8	1.6	1.8	1.1	1.3	0.4	1.8	1.9	1.9	1.6	1.5	1.1	1.6	37
38	GDP excluding food and energy <sup>2</sup> .....	0.5	1.4	1.9	1.8	1.7	1.9	1.2	1.6	0.6	1.6	1.9	1.8	1.9	1.7	1.2	1.8	38
39	PCE.....	-0.1	1.7	2.5	1.9	1.3	1.5	0.3	1.1	1.2	1.3	2.7	1.8	1.2	1.2	0.4	1.4	39
40	PCE excluding food and energy <sup>2</sup> .....	1.2	1.3	1.5	1.9	1.5	1.6	1.4	1.7	1.4	1.0	1.9	1.8	1.5	1.6	1.4	1.7	40
41	Market-based PCE <sup>3</sup> .....	0.4	1.5	2.5	1.8	1.0	1.1	0.0	0.8	1.5	1.1	2.8	1.6	0.9	0.9	0.1	1.3	41
42	Market-based PCE excluding food and energy <sup>3</sup> .....	1.9	1.0	1.4	1.8	1.2	1.2	1.1	1.5	1.8	0.7	1.9	1.5	1.1	1.2	1.1	1.5	42

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.  
2. Food excludes personal consumption expenditures for purchased meals and beverages, which are classified in food services.  
3. This index is a supplemental measure that is based on household expenditures for which there are observable price measures. It excludes most implicit prices (for example, financial services furnished without payment) and the final consumption expenditures of nonprofit institutions serving households.  
NOTE: Estimates under the *Percent change from the preceding year* columns are calculated from annual data. Estimates under the *Percent change fourth quarter to fourth quarter* columns are calculated from fourth quarter values relative to the same quarter one year prior.  
See *Explanatory Note* at the end of the tables.

**Table 8. Real Gross Domestic Product: Percent Change From Quarter One Year Ago**

Line	2013			2014				2015				2016				2017	Line
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	
1	<b>Gross domestic product (GDP)</b>																1
2	<b>Personal consumption expenditures (PCE)</b>																2
3	Goods																3
4	Durable goods																4
5	Nondurable goods																5
6	Services																6
7	<b>Gross private domestic investment</b>																7
8	Fixed investment																8
9	Nonresidential																9
10	Structures																10
11	Equipment																11
12	Intellectual property products																12
13	Residential																13
14	Change in private inventories																14
15	<b>Net exports of goods and services</b>																15
16	Exports																16
17	Goods																17
18	Services																18
19	Imports																19
20	Goods																20
21	Services																21
22	<b>Government consumption expenditures and gross investment</b>																22
23	Federal																23
24	National defense																24
25	Nondefense																25
26	State and local																26
<b>Addenda:</b>																	
27	Gross domestic income (GDI) <sup>1</sup>																27
28	Average of GDP and GDI																28
29	Final sales of domestic product																29
30	Gross domestic purchases																30
31	Final sales to domestic purchasers																31
32	Final sales to private domestic purchasers																32
33	Gross national product																33
34	Real disposable personal income																34
<b>Price indexes:</b>																	
35	Gross domestic purchases																35
36	Gross domestic purchases excluding food and energy <sup>2</sup>																36
37	GDP																37
38	GDP excluding food and energy <sup>2</sup>																38
39	PCE																39
40	PCE excluding food and energy <sup>2</sup>																40
41	Market-based PCE <sup>3</sup>																41
42	Market-based PCE excluding food and energy <sup>3</sup>																42

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.

2. Food excludes personal consumption expenditures for purchased meals and beverages, which are classified in food services.

3. This index is a supplemental measure that is based on household expenditures for which there are observable price measures. It excludes most implicit prices (for example, financial services furnished without payment) and the final consumption expenditures of nonprofit institutions serving households.

See Explanatory Note at the end of the tables.

**Table 9. Relation of Gross Domestic Product, Gross National Product, and National Income**

[Billions of dollars]

Line		2014	2015	2016	Seasonally adjusted at annual rates					Line
					2016				2017	
					I	II	III	IV	I	
1	<b>Gross domestic product (GDP)</b> .....	17,393.1	18,036.6	18,569.1	18,281.6	18,450.1	18,675.3	18,869.4	19,007.3	1
2	Plus: Income receipts from the rest of the world.....	852.1	813.1	842.6	807.0	848.3	848.9	866.4		2
3	Less: Income payments to the rest of the world.....	604.0	607.4	635.8	634.5	640.5	644.9	623.4		3
4	<b>Equals: Gross national product</b> .....	17,641.2	18,242.4	18,776.0	18,454.2	18,657.9	18,879.3	19,112.4		4
5	Less: Consumption of fixed capital.....	2,745.2	2,830.8	2,910.4	2,873.6	2,901.8	2,921.7	2,944.7	2,973.8	5
6	Less: Statistical discrepancy.....	-257.9	-253.7	-264.9	-264.3	-233.9	-304.7	-256.8		6
7	<b>Equals: National income</b> .....	15,153.9	15,665.3	16,130.4	15,844.9	15,990.1	16,262.3	16,424.5		7
8	Compensation of employees.....	9,253.4	9,693.1	10,101.3	9,892.6	10,046.5	10,186.8	10,279.5	10,383.1	8
9	Wages and salaries.....	7,476.3	7,854.8	8,189.2	8,011.3	8,142.9	8,262.3	8,340.2	8,423.9	9
10	Supplements to wages and salaries.....	1,777.1	1,838.2	1,912.2	1,881.3	1,903.6	1,924.5	1,939.4	1,959.2	10
11	Proprietors' income with inventory valuation and capital consumption adjustments.....	1,337.7	1,376.8	1,417.5	1,403.9	1,407.8	1,420.8	1,437.4	1,455.9	11
12	Rental income of persons with capital consumption adjustment.....	606.1	659.6	704.7	692.8	700.6	705.9	719.6	734.4	12
13	Corporate profits with inventory valuation and capital consumption adjustments.....	2,152.1	2,088.1	2,085.8	2,033.5	2,021.0	2,138.8	2,150.0		13
14	Net interest and miscellaneous payments.....	533.7	524.1	485.3	493.1	485.5	485.5	477.1	479.8	14
15	Taxes on production and imports less subsidies.....	1,153.5	1,181.0	1,197.0	1,191.5	1,187.4	1,200.8	1,208.3	1,206.3	15
16	Business current transfer payments (net).....	137.6	161.4	161.2	158.1	164.6	146.9	175.2	183.8	16
17	Current surplus of government enterprises.....	-20.2	-18.8	-22.4	-20.5	-23.3	-23.2	-22.7	-21.8	17
	<b>Addenda:</b>									
18	Gross domestic income (GDI).....	17,651.1	18,290.3	18,834.0	18,546.0	18,684.0	18,979.9	19,126.2		18
19	Average of GDP and GDI.....	17,522.1	18,163.5	18,701.6	18,413.8	18,567.0	18,827.6	18,997.8		19
20	Statistical discrepancy as a percentage of GDP.....	-1.5	-1.4	-1.4	-1.4	-1.3	-1.6	-1.4		20

**Table 10. Personal Income and Its Disposition**

[Billions of dollars]

Line		2014	2015	2016	Seasonally adjusted at annual rates					Line
					2016				2017	
					I	II	III	IV	I	
1	<b>Personal income</b> <sup>1</sup> .....	14,809.7	15,458.5	16,011.6	15,740.1	15,929.4	16,111.1	16,265.7	16,427.6	1
2	Compensation of employees.....	9,253.4	9,693.1	10,101.3	9,892.6	10,046.5	10,186.8	10,279.5	10,383.1	2
3	Wages and salaries.....	7,476.3	7,854.8	8,189.2	8,011.3	8,142.9	8,262.3	8,340.2	8,423.9	3
4	Supplements to wages and salaries.....	1,777.1	1,838.2	1,912.2	1,881.3	1,903.6	1,924.5	1,939.4	1,959.2	4
5	Proprietors' income with inventory valuation and capital consumption adjustments.....	1,337.7	1,376.8	1,417.5	1,403.9	1,407.8	1,420.8	1,437.4	1,455.9	5
6	Farm.....	68.5	39.9	27.8	32.3	29.8	28.3	20.6	16.8	6
7	Nonfarm.....	1,269.2	1,336.8	1,389.7	1,371.6	1,378.0	1,392.4	1,416.8	1,439.1	7
8	Rental income of persons with capital consumption adjustment.....	606.1	659.6	704.7	692.8	700.6	705.9	719.6	734.4	8
9	Personal income receipts on assets.....	2,227.0	2,253.8	2,262.9	2,235.9	2,255.8	2,270.3	2,289.7	2,298.6	9
10	Personal interest income.....	1,300.9	1,302.7	1,314.5	1,296.1	1,310.2	1,317.8	1,333.8	1,352.2	10
11	Personal dividend income.....	926.1	951.1	948.4	939.8	945.5	952.5	955.9	946.4	11
12	Personal current transfer receipts.....	2,540.4	2,678.6	2,775.4	2,744.0	2,763.6	2,786.5	2,807.6	2,850.6	12
13	Less: Contributions for government social insurance, domestic.....	1,154.9	1,203.5	1,250.3	1,229.0	1,244.8	1,259.1	1,268.3	1,294.9	13
14	Less: Personal current taxes.....	1,787.0	1,938.7	1,965.6	1,932.7	1,952.1	1,982.4	1,995.4	2,036.3	14
15	<b>Equals: Disposable personal income</b> .....	13,022.7	13,519.8	14,045.9	13,807.4	13,977.3	14,128.7	14,270.3	14,391.3	15
16	Less: Personal outlays.....	12,296.7	12,736.2	13,227.1	12,961.9	13,154.5	13,300.7	13,491.4	13,577.1	16
17	<b>Equals: Personal saving</b> .....	726.0	783.6	818.8	845.5	822.8	828.0	778.9	814.2	17
18	Personal saving as a percentage of disposable personal income.....	5.6	5.8	5.8	6.1	5.9	5.9	5.5	5.7	18
	<b>Addenda:</b>									
19	Personal income excluding current transfer receipts, billions of chained (2009) dollars <sup>2</sup> .....	11,240.8	11,667.7	11,954.1	11,818.2	11,912.9	12,012.9	12,072.7	12,108.2	19
20	Disposable personal income, billions of chained (2009) dollars <sup>2</sup> .....	11,931.0	12,343.3	12,685.5	12,556.0	12,647.2	12,737.9	12,801.4	12,834.3	20

1. Personal income is also equal to national income less corporate profits with inventory valuation and capital consumption adjustments, taxes on production and imports less subsidies, contributions for government social insurance, net interest and miscellaneous payments, business current transfer payments (net), and current surplus of government enterprises, plus personal income receipts on assets, and personal current transfer receipts.

2. The current-dollar measure is deflated by the implicit price deflator for personal consumption expenditures.

**Appendix Table A. Real Gross Domestic Product and Related Aggregates and Price Indexes:  
Percent Change From Preceding Period and Contributions to Percent Change**

Line		2014	2015	2016	Seasonally adjusted at annual rates															Line	
					2013			2014				2015				2016					2017
					II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		I
<b>Percent change from preceding period</b>																					
<b>Gross domestic product (GDP) and related aggregates:</b>																					
1	GDP.....	2.4	2.6	1.6	0.8	3.1	4.0	-1.2	4.0	5.0	2.3	2.0	2.6	2.0	0.9	0.8	1.4	3.5	2.1	0.7	1
2	Goods.....	3.1	2.5	1.4	0.6	7.5	10.0	-8.9	7.9	10.0	-0.2	0.8	2.3	2.5	-0.8	-1.4	2.2	7.6	2.2	-0.4	2
3	Services.....	1.7	2.4	1.8	0.0	0.4	1.8	1.9	1.4	3.1	2.9	2.9	1.9	1.5	2.1	1.1	2.4	2.1	1.6	0.0	3
4	Structures.....	5.2	4.3	1.0	8.7	8.6	-2.6	7.3	9.3	0.6	7.7	0.4	9.6	3.9	-1.9	7.4	-8.7	-0.6	5.7	10.4	4
5	Motor vehicle output.....	7.6	5.0	2.0	4.1	-13.8	25.5	3.2	14.2	14.5	-5.2	4.5	7.6	16.5	-15.2	2.2	7.5	3.2	7.6	-13.9	5
6	GDP excluding motor vehicle output.....	2.2	2.5	1.6	0.7	3.6	3.4	-1.3	3.7	4.7	2.5	2.0	2.5	1.6	1.4	0.8	1.2	3.5	1.9	1.2	6
7	Final sales of computers <sup>1</sup> .....	9.4	9.8	17.0	12.3	-4.7	12.7	15.0	19.4	11.4	-22.3	19.3	40.7	4.7	2.9	54.3	17.8	-9.0	-3.9	36.5	7
8	GDP excluding final sales of computers.....	2.3	2.6	1.6	0.7	3.2	3.9	-1.2	3.9	4.9	2.4	2.0	2.5	2.0	0.9	0.7	1.3	3.6	2.1	0.6	8
9	Research and development.....	0.4	2.2	4.2	-0.7	-1.0	-3.7	2.0	0.5	3.1	5.3	-5.2	7.6	3.3	4.7	0.6	11.8	-0.1	2.2	2.2	9
10	GDP excluding research and development.....	2.4	2.6	1.5	0.8	3.2	4.2	-1.3	4.1	5.0	2.2	2.2	2.5	2.0	0.8	0.8	1.2	3.6	2.1	0.7	10
11	Farm gross value added <sup>2</sup> .....	-1.9	3.1	10.7	37.3	28.2	-9.2	-18.6	2.1	-6.9	10.5	-5.5	-3.0	32.7	5.9	6.6	11.5	26.5	-11.9	-45.9	11
12	Nonfarm business gross value added <sup>3</sup> .....	3.0	3.1	1.7	0.6	3.8	5.6	-1.8	5.1	6.5	2.7	2.4	3.1	1.8	0.8	0.7	1.6	4.2	2.7	1.0	12
<b>Price indexes:</b>																					
13	GDP.....	1.8	1.1	1.3	0.9	2.1	2.1	1.7	2.1	1.7	0.5	-0.1	2.3	1.3	0.8	0.5	2.3	1.4	2.1	2.3	13
14	GDP excluding food and energy <sup>4</sup> .....	1.9	1.2	1.6	1.4	2.0	2.3	1.9	2.0	1.8	1.0	0.5	1.8	1.4	0.9	1.5	2.1	1.9	1.8	2.3	14
15	GDP excluding final sales of computers.....	1.8	1.1	1.4	1.0	2.1	2.1	1.8	2.2	1.8	0.6	0.0	2.3	1.3	0.9	0.6	2.4	1.5	2.1	2.3	15
16	Gross domestic purchases.....	1.7	0.4	1.0	0.6	1.6	2.1	2.1	1.8	1.5	0.3	-1.4	1.6	1.0	0.3	0.2	2.1	1.5	2.0	2.6	16
17	Gross domestic purchases excluding food and energy <sup>4</sup> ...	1.8	1.1	1.4	1.3	1.6	2.2	1.9	1.9	1.7	1.0	0.4	1.5	1.2	0.8	1.4	2.0	1.7	1.6	2.3	17
18	Gross domestic purchases excluding final sales of computers to domestic purchasers.....	1.7	0.5	1.1	0.6	1.7	2.1	2.2	1.8	1.5	0.3	-1.4	1.6	1.1	0.3	0.3	2.1	1.5	2.1	2.6	18
19	Personal consumption expenditures (PCE).....	1.5	0.3	1.1	0.2	1.5	1.7	2.0	1.9	1.1	0.0	-1.6	1.8	1.1	0.4	0.3	2.0	1.5	2.0	2.4	19
20	PCE excluding food and energy <sup>4</sup> .....	1.6	1.4	1.7	1.1	1.4	1.8	1.6	2.0	1.5	1.1	1.1	1.8	1.4	1.2	2.1	1.8	1.7	1.3	2.0	20
21	Market-based PCE <sup>5</sup> .....	1.1	0.0	0.8	-0.5	1.4	1.3	1.7	1.5	0.8	-0.4	-2.3	1.7	0.8	0.2	-0.2	1.9	1.3	2.1	2.4	21
22	Market-based PCE excluding food and energy <sup>5</sup> .....	1.2	1.1	1.5	0.5	1.3	1.2	1.2	1.5	1.2	0.8	0.7	1.6	1.1	1.1	1.8	1.6	1.6	1.3	1.9	22
<b>Contributions to percent change in real gross domestic product</b>																					
<b>Percent change at annual rate:</b>																					
23	<b>Gross domestic product</b> .....	<b>2.4</b>	<b>2.6</b>	<b>1.6</b>	<b>0.8</b>	<b>3.1</b>	<b>4.0</b>	<b>-1.2</b>	<b>4.0</b>	<b>5.0</b>	<b>2.3</b>	<b>2.0</b>	<b>2.6</b>	<b>2.0</b>	<b>0.9</b>	<b>0.8</b>	<b>1.4</b>	<b>3.5</b>	<b>2.1</b>	<b>0.7</b>	23
<b>Percentage points at annual rates:</b>																					
24	Goods.....	0.94	0.77	0.43	0.17	2.26	3.02	-2.85	2.39	3.02	-0.03	0.24	0.71	0.75	-0.24	-0.42	0.66	2.22	0.67	-0.13	24
25	Services.....	1.04	1.49	1.11	-0.01	0.24	1.14	1.13	0.87	1.89	1.75	1.77	1.17	0.92	1.26	0.68	1.48	1.34	0.97	0.03	25
26	Structures.....	0.39	0.34	0.08	0.61	0.62	-0.20	0.54	0.70	0.06	0.59	0.04	0.74	0.31	-0.15	0.57	-0.73	-0.05	0.44	0.80	26
27	Motor vehicle output.....	0.21	0.14	0.06	0.11	-0.41	0.63	0.09	0.38	0.40	-0.15	0.13	0.22	0.46	-0.49	0.06	0.21	0.09	0.22	-0.44	27
28	Final sales of computers.....	0.04	0.04	0.07	0.05	-0.02	0.05	0.06	0.07	0.05	-0.10	0.07	0.14	0.02	0.01	0.18	0.07	-0.04	-0.02	0.13	28
29	Research and development.....	0.01	0.05	0.11	-0.02	-0.03	-0.10	0.05	0.01	0.08	0.13	-0.13	0.19	0.08	0.12	0.01	0.29	0.00	0.06	0.06	29

1. For some components of final sales of computers, includes computer parts.  
2. Farm output less intermediate goods and services purchased.  
3. Consists of GDP less gross value added of farm, of households and institutions, and of general government.  
4. Food excludes personal consumption expenditures for purchased meals and beverages, which are classified in food services.  
5. This index is a supplemental measure that is based on household expenditures for which there are observable price measures. It excludes most implicit prices (for example, financial services furnished without payment) and the final consumption expenditures of nonprofit institutions serving households.  
See *Explanatory Note* at the end of the tables.

## Explanatory Note: NIPA Measures of Quantities and Prices

Current-dollar GDP is a measure of the market value of goods, services, and structures produced in the economy in a particular period. Changes in current-dollar GDP can be decomposed into quantity and price components. Quantities, or "real" measures, and prices are expressed as index numbers with the reference year -- at present, the year 2009 -- equal to 100.

Annual changes in quantities and prices are calculated using a Fisher formula that incorporates weights from two adjacent years. (Quarterly changes in quantities and prices are calculated using a Fisher formula that incorporates weights from two adjacent quarters; quarterly indexes are adjusted for consistency to the annual indexes before percent changes are calculated.) For example, the 2008-09 annual percent change in real GDP uses prices for 2008 and 2009 as weights, and the 2008-09 annual percent change in GDP prices uses quantities for 2008 and 2009 as weights. These annual changes are "chained" (multiplied) together to form time series of quantity and price indexes. Percent changes in Fisher indexes are not affected by the choice of reference year. (BEA also publishes a measure of the price level known as the implicit price deflator (IPD), which is calculated as the ratio of the current-dollar value to the corresponding chained-dollar value, multiplied by 100. The values of the IPD are very close to the values of the corresponding "chain-type" price index.)

Index numbers of quantity and price indexes for GDP and its major components are presented in this release in tables 5 and 6. Percent changes from the preceding period are presented in tables 1, 4, 7, 8, and appendix table A. Contributions by major components to the percent change in real GDP are presented in table 2.

Measures of real GDP and its major components are also presented in dollar-denominated form, designated "chained (2009) dollar estimates." For most series, these estimates, which are presented in table 3, are computed by multiplying the current-dollar value in 2009 by a corresponding quantity index number and then dividing by 100. For example, if a current-dollar GDP component equaled \$100 in 2009 and if real output for this component increased 10 percent in 2010, then the chained (2009) dollar value of this component in 2010 would be \$110 (= \$100 x 110 / 100). Percent changes calculated from chained-dollar estimates and from chain-type quantity indexes are the same; any differences will be small and due to rounding.

Chained-dollar values for the detailed GDP components will not necessarily sum to the chained-dollar estimate of GDP (or to any intermediate aggregate). This is because the relative prices used as weights for any period other than the reference year differ from those of the reference year. A measure of the extent of such differences is provided by a "residual" line, which indicates the difference between GDP (or other major aggregate) and the sum of the most detailed components in the table. For periods close to the reference year, when there usually has not been much change in the relative prices that are used as weights, the residuals tend to be small, and the chained-dollar estimates can be used to approximate the contributions to growth and to aggregate the detailed estimates. For periods further from the reference year, the residuals tend to be larger, and the chained-dollar estimates are less useful for analyses of contributions to growth. Thus, the contributions to percent change shown in table 2 provide a better measure of the composition of GDP growth. In particular, for components for which relative prices are changing rapidly, calculation of contributions using chained-dollar estimates may be misleading even just a few years from the reference year.

*Reference* "Chained-Dollar Indexes: Issues, Tips on Their Use, and Upcoming Changes," November 2003 *Survey*, pp. 8-16.