

2020 Annual Update of the National Income and Product Accounts

Supplemental Tables

Released July 30, 2020

Table A1. Revisions to Real GDP, Expanded Detail, Over the Period 2014–2019
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|------------------------|-----------------------|--------------------------------|-----------------|------------------------|-----------------------|--------------------|-----------------------------------|
| | | 2014 | 2019 | Change for 2014 – 2019 | | 2014 | 2019 | Change for 2014 – 2019 | | Dollar | Percent change (percentage point) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 16,912.0 | 19,073.1 | 2,161.0 | 2.4 | 16,912.0 | 19,091.7 | 2,179.6 | 2.5 | 18.6 | 0.1 |
| 2 | Personal consumption expenditures | 11,497.4 | 13,280.1 | 1,782.7 | 2.9 | 11,497.4 | 13,240.2 | 1,742.8 | 2.9 | -39.8 | 0.0 |
| 3 | Goods | 3,905.1 | 4,754.6 | 849.4 | 4.0 | 3,905.1 | 4,760.5 | 855.3 | 4.0 | 5.9 | 0.0 |
| 4 | Durable goods | 1,301.6 | 1,766.4 | 464.8 | 6.3 | 1,301.6 | 1,774.6 | 473.0 | 6.4 | 8.2 | 0.1 |
| 5 | Motor vehicles and parts | 439.4 | 542.7 | 103.2 | 4.3 | 439.4 | 532.4 | 93.0 | 3.9 | -10.3 | -0.4 |
| 6 | Furnishings and durable household equipment | 291.6 | 405.7 | 114.1 | 6.8 | 291.6 | 410.1 | 118.5 | 7.1 | 4.4 | 0.3 |
| 7 | Recreational goods and vehicles | 364.7 | 569.3 | 204.6 | 9.3 | 364.7 | 590.6 | 225.9 | 10.1 | 21.3 | 0.8 |
| 8 | Other durable goods | 206.4 | 263.4 | 57.0 | 5.0 | 206.4 | 260.6 | 54.2 | 4.8 | -2.8 | -0.2 |
| 9 | Nondurable goods | 2,605.3 | 3,002.9 | 397.6 | 2.9 | 2,605.3 | 3,001.5 | 396.2 | 2.9 | -1.4 | 0.0 |
| 10 | Food and beverages purchased for off-premises consumption | 871.4 | 988.4 | 117.1 | 2.6 | 871.4 | 982.0 | 110.7 | 2.4 | -6.4 | -0.2 |
| 11 | Clothing and footwear | 356.1 | 407.0 | 50.9 | 2.7 | 356.1 | 412.0 | 55.9 | 3.0 | 5.0 | 0.3 |
| 12 | Gasoline and other energy goods | 430.0 | 448.6 | 18.7 | 0.9 | 430.0 | 444.9 | 15.0 | 0.7 | -3.7 | -0.2 |
| 13 | Other nondurable goods | 947.4 | 1,142.1 | 194.7 | 3.8 | 947.4 | 1,145.0 | 197.6 | 3.9 | 2.9 | 0.1 |
| 14 | Services | 7,594.9 | 8,562.9 | 968.0 | 2.4 | 7,594.9 | 8,520.5 | 925.6 | 2.3 | -42.4 | -0.1 |
| 15 | Household consumption expenditures (for services) | 7,249.6 | 8,201.2 | 951.6 | 2.5 | 7,249.6 | 8,167.8 | 918.2 | 2.4 | -33.5 | -0.1 |
| 16 | Housing and utilities | 2,039.9 | 2,184.3 | 144.3 | 1.4 | 2,039.9 | 2,193.0 | 153.1 | 1.5 | 8.7 | 0.1 |
| 17 | Health care | 1,892.8 | 2,249.3 | 356.5 | 3.5 | 1,892.8 | 2,232.9 | 340.1 | 3.4 | -16.4 | -0.1 |
| 18 | Transportation services | 374.3 | 438.9 | 64.6 | 3.2 | 374.3 | 442.5 | 68.1 | 3.4 | 3.5 | 0.2 |
| 19 | Recreation services | 450.5 | 509.8 | 59.3 | 2.5 | 450.5 | 503.2 | 52.7 | 2.2 | -6.6 | -0.3 |
| 20 | Food services and accommodations | 741.3 | 858.2 | 116.9 | 3.0 | 741.3 | 842.2 | 100.9 | 2.6 | -16.0 | -0.4 |
| 21 | Financial services and insurance | 817.9 | 856.7 | 38.7 | 0.9 | 817.9 | 857.9 | 39.9 | 1.0 | 1.2 | 0.1 |
| 22 | Other services | 934.4 | 1,123.8 | 189.4 | 3.8 | 934.4 | 1,114.4 | 180.0 | 3.6 | -9.3 | -0.2 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 345.3 | 362.4 | 17.1 | 1.0 | 345.3 | 354.0 | 8.6 | 0.5 | -8.5 | -0.5 |
| 24 | Gross output of nonprofit institutions | 1,266.2 | 1,434.0 | 167.8 | 2.5 | 1,266.2 | 1,418.3 | 152.1 | 2.3 | -15.7 | -0.2 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 920.9 | 1,072.9 | 152.0 | 3.1 | 920.9 | 1,066.2 | 145.3 | 3.0 | -6.7 | -0.1 |
| 26 | Gross private domestic investment | 2,959.2 | 3,421.3 | 462.1 | 2.9 | 2,959.2 | 3,442.6 | 483.4 | 3.1 | 21.2 | 0.2 |
| 27 | Fixed investment | 2,869.2 | 3,335.8 | 466.6 | 3.1 | 2,869.2 | 3,371.7 | 502.5 | 3.3 | 35.9 | 0.2 |
| 28 | Nonresidential | 2,365.3 | 2,748.1 | 382.8 | 3.0 | 2,365.3 | 2,776.8 | 411.5 | 3.3 | 28.7 | 0.3 |
| 29 | Structures | 538.8 | 517.8 | -21.0 | -0.8 | 538.8 | 547.7 | 8.9 | 0.3 | 29.9 | 1.1 |

table continues on next page

Table A1. Revisions to Real GDP, Expanded Detail, Over the Period 2014–2019
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|------------------------|-----------------------|--------------------------------|----------|------------------------|-----------------------|--------------------|-----------------------------------|
| | | 2014 | 2019 | Change for 2014 – 2019 | | 2014 | 2019 | Change for 2014 – 2019 | | Dollar | Percent change (percentage point) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,101.1 | 1,271.3 | 170.2 | 2.9 | 1,101.1 | 1,267.7 | 166.6 | 2.9 | -3.6 | 0.0 |
| 31 | Information processing equipment | 370.2 | 517.9 | 147.6 | 6.9 | 370.2 | 493.9 | 123.6 | 5.9 | -24.0 | -1.0 |
| 32 | Computers and peripheral equipment | 102.9 | 129.3 | 26.3 | 4.7 | 102.9 | 130.7 | 27.8 | 4.9 | 1.5 | 0.2 |
| 33 | Other | 267.7 | 391.0 | 123.3 | 7.9 | 267.7 | 363.8 | 96.1 | 6.3 | -27.2 | -1.6 |
| 34 | Industrial equipment | 216.5 | 241.1 | 24.6 | 2.2 | 216.5 | 249.1 | 32.6 | 2.8 | 8.0 | 0.6 |
| 35 | Transportation equipment | 265.0 | 277.2 | 12.2 | 0.9 | 265.0 | 285.7 | 20.7 | 1.5 | 8.5 | 0.6 |
| 36 | Other equipment | 248.9 | 251.3 | 2.4 | 0.2 | 248.9 | 250.1 | 1.3 | 0.1 | -1.2 | -0.1 |
| 37 | Intellectual property products | 724.8 | 969.2 | 244.5 | 6.0 | 724.8 | 968.2 | 243.4 | 6.0 | -1.1 | 0.0 |
| 38 | Software | 305.3 | 455.6 | 150.3 | 8.3 | 305.3 | 449.3 | 144.0 | 8.0 | -6.4 | -0.3 |
| 39 | Research and development | 346.9 | 434.5 | 87.6 | 4.6 | 346.9 | 440.5 | 93.6 | 4.9 | 6.0 | 0.3 |
| 40 | Entertainment, literary, and artistic originals | 72.7 | 85.9 | 13.2 | 3.4 | 72.7 | 83.7 | 11.0 | 2.9 | -2.2 | -0.5 |
| 41 | Residential | 504.1 | 593.8 | 89.7 | 3.3 | 504.1 | 601.5 | 97.4 | 3.6 | 7.7 | 0.3 |
| 42 | Change in private inventories | 86.3 | 67.0 | -19.3 | --- | 86.3 | 48.5 | -37.8 | --- | -18.4 | --- |
| 43 | Farm | -3.5 | -11.1 | -7.5 | --- | -3.5 | -16.9 | -13.4 | --- | -5.8 | --- |
| 44 | Nonfarm | 90.1 | 75.3 | -14.8 | --- | 90.1 | 62.2 | -27.9 | --- | -13.0 | --- |
| 45 | Net exports of goods and services | -577.2 | -953.9 | -376.6 | --- | -577.2 | -917.6 | -340.4 | --- | 36.2 | --- |
| 46 | Exports | 2,365.3 | 2,532.9 | 167.6 | 1.4 | 2,365.3 | 2,546.6 | 181.3 | 1.5 | 13.7 | 0.1 |
| 47 | Goods | 1,642.7 | 1,786.2 | 143.5 | 1.7 | 1,642.7 | 1,782.5 | 139.8 | 1.6 | -3.7 | -0.1 |
| 48 | Services | 722.7 | 752.5 | 29.8 | 0.8 | 722.7 | 767.6 | 44.9 | 1.2 | 15.1 | 0.4 |
| 49 | Imports | 2,942.5 | 3,486.8 | 544.3 | 3.5 | 2,942.5 | 3,464.2 | 521.7 | 3.3 | -22.6 | -0.2 |
| 50 | Goods | 2,472.2 | 2,923.4 | 451.2 | 3.4 | 2,472.2 | 2,923.4 | 451.2 | 3.4 | 0.0 | 0.0 |
| 51 | Services | 471.0 | 562.4 | 91.3 | 3.6 | 471.0 | 543.1 | 72.1 | 2.9 | -19.3 | -0.7 |
| 52 | Government consumption expenditures and gross investment | 3,033.4 | 3,299.0 | 265.6 | 1.7 | 3,033.4 | 3,303.9 | 270.4 | 1.7 | 4.8 | 0.0 |
| 53 | Federal | 1,183.8 | 1,275.5 | 91.7 | 1.5 | 1,183.8 | 1,277.2 | 93.4 | 1.5 | 1.7 | 0.0 |
| 54 | National defense | 728.4 | 773.4 | 45.0 | 1.2 | 728.4 | 780.2 | 51.7 | 1.4 | 6.8 | 0.2 |
| 55 | Consumption expenditures | 586.0 | 613.7 | 27.8 | 0.9 | 586.0 | 613.8 | 27.8 | 0.9 | 0.1 | 0.0 |
| 56 | Gross investment | 142.4 | 159.9 | 17.5 | 2.3 | 142.4 | 166.9 | 24.4 | 3.2 | 7.0 | 0.9 |
| 57 | Nondefense | 455.2 | 502.0 | 46.8 | 2.0 | 455.2 | 497.1 | 41.9 | 1.8 | -4.9 | -0.2 |
| 58 | Consumption expenditures | 339.0 | 373.2 | 34.1 | 1.9 | 339.0 | 362.8 | 23.8 | 1.4 | -10.3 | -0.5 |
| 59 | Gross investment | 116.2 | 128.9 | 12.7 | 2.1 | 116.2 | 134.6 | 18.4 | 3.0 | 5.7 | 0.9 |
| 60 | State and local | 1,848.6 | 2,022.3 | 173.7 | 1.8 | 1,848.6 | 2,025.5 | 176.9 | 1.8 | 3.2 | 0.0 |
| 61 | Consumption expenditures | 1,523.1 | 1,654.6 | 131.5 | 1.7 | 1,523.1 | 1,653.3 | 130.2 | 1.7 | -1.4 | 0.0 |
| 62 | Gross investment | 325.5 | 367.6 | 42.1 | 2.5 | 325.5 | 372.2 | 46.8 | 2.7 | 4.6 | 0.2 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 17,191.1 | 18,985.6 | 1,794.6 | 2.0 | 17,188.6 | 19,080.2 | 1,891.6 | 2.1 | 97.0 | 0.1 |
| 64 | Average of GDP and GDI ² | 17,051.5 | 19,029.3 | 1,977.8 | 2.2 | 17,050.3 | 19,085.9 | 2,035.6 | 2.3 | 57.8 | 0.1 |
| 65 | Final sales of domestic product | 16,822.3 | 18,987.9 | 2,165.6 | 2.5 | 16,822.3 | 19,021.1 | 2,198.8 | 2.5 | 33.2 | 0.0 |
| 66 | Gross domestic purchases | 17,487.7 | 19,994.6 | 2,506.9 | 2.7 | 17,487.7 | 19,981.0 | 2,493.3 | 2.7 | -13.6 | 0.0 |
| 67 | Gross national product | 17,146.5 | 19,351.3 | 2,204.8 | 2.4 | 17,146.5 | 19,338.4 | 2,191.9 | 2.4 | -12.9 | 0.0 |
| 68 | Disposable personal income ³ | 12,844.3 | 14,978.5 | 2,134.3 | 3.1 | 12,843.7 | 14,882.5 | 2,038.8 | 3.0 | -95.5 | -0.1 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A2. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2015Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|--------------------------------------|
| | | 2014 Q4 | 2015 Q4 | Change for 2014Q4 – 2015Q4 | | 2014 Q4 | 2015 Q4 | Change for 2014Q4 – 2015Q4 | | Dollar | Percent change (percent -age points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 17,143.0 | 17,468.9 | 325.9 | 1.9 | 17,143.0 | 17,514.1 | 371.0 | 2.2 | 45.2 | 0.3 |
| 2 | Personal consumption expenditures | 11,695.0 | 12,030.2 | 335.3 | 2.9 | 11,695.0 | 12,055.4 | 360.4 | 3.1 | 25.1 | 0.2 |
| 3 | Goods | 3,984.4 | 4,133.7 | 149.4 | 3.7 | 3,984.4 | 4,136.5 | 152.1 | 3.8 | 2.7 | 0.1 |
| 4 | Durable goods | 1,343.3 | 1,421.1 | 77.8 | 5.8 | 1,343.3 | 1,423.3 | 80.0 | 6.0 | 2.2 | 0.2 |
| 5 | Motor vehicles and parts | 452.1 | 469.3 | 17.2 | 3.8 | 452.1 | 471.7 | 19.6 | 4.3 | 2.5 | 0.5 |
| 6 | Furnishings and durable household equipment | 302.0 | 328.3 | 26.3 | 8.7 | 302.0 | 329.1 | 27.1 | 9.0 | 0.7 | 0.3 |
| 7 | Recreational goods and vehicles | 376.3 | 398.4 | 22.1 | 5.9 | 376.3 | 397.3 | 21.0 | 5.6 | -1.1 | -0.3 |
| 8 | Other durable goods | 213.5 | 226.7 | 13.2 | 6.2 | 213.5 | 226.5 | 13.0 | 6.1 | -0.2 | -0.1 |
| 9 | Nondurable goods | 2,643.6 | 2,716.4 | 72.8 | 2.8 | 2,643.6 | 2,716.9 | 73.4 | 2.8 | 0.6 | 0.0 |
| 10 | Food and beverages purchased for off-premises consumption | 876.3 | 886.5 | 10.2 | 1.2 | 876.3 | 887.7 | 11.4 | 1.3 | 1.2 | 0.1 |
| 11 | Clothing and footwear | 363.7 | 370.4 | 6.7 | 1.8 | 363.7 | 370.6 | 6.9 | 1.9 | 0.2 | 0.1 |
| 12 | Gasoline and other energy goods | 437.2 | 451.5 | 14.2 | 3.3 | 437.2 | 449.8 | 12.6 | 2.9 | -1.6 | -0.4 |
| 13 | Other nondurable goods | 966.2 | 1,008.2 | 42.0 | 4.3 | 966.2 | 1,008.4 | 42.3 | 4.4 | 0.3 | 0.1 |
| 14 | Services | 7,713.9 | 7,903.1 | 189.2 | 2.5 | 7,713.9 | 7,924.9 | 211.0 | 2.7 | 21.9 | 0.2 |
| 15 | Household consumption expenditures (for services) | 7,372.2 | 7,555.1 | 183.0 | 2.5 | 7,372.2 | 7,575.5 | 203.3 | 2.8 | 20.4 | 0.3 |
| 16 | Housing and utilities | 2,057.6 | 2,094.4 | 36.7 | 1.8 | 2,057.6 | 2,097.5 | 39.9 | 1.9 | 3.2 | 0.1 |
| 17 | Health care | 1,945.2 | 2,013.3 | 68.1 | 3.5 | 1,945.2 | 2,016.8 | 71.6 | 3.7 | 3.4 | 0.2 |
| 18 | Transportation services | 378.5 | 394.4 | 15.9 | 4.2 | 378.5 | 394.2 | 15.7 | 4.1 | -0.2 | -0.1 |
| 19 | Recreation services | 458.1 | 478.6 | 20.5 | 4.5 | 458.1 | 478.3 | 20.2 | 4.4 | -0.4 | -0.1 |
| 20 | Food services and accommodations | 756.0 | 782.6 | 26.6 | 3.5 | 756.0 | 783.2 | 27.2 | 3.6 | 0.6 | 0.1 |
| 21 | Financial services and insurance | 825.4 | 833.8 | 8.4 | 1.0 | 825.4 | 837.5 | 12.1 | 1.5 | 3.7 | 0.5 |
| 22 | Other services | 953.8 | 962.5 | 8.7 | 0.9 | 953.8 | 972.4 | 18.6 | 2.0 | 9.9 | 1.1 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 341.9 | 348.1 | 6.2 | 1.8 | 341.9 | 349.6 | 7.7 | 2.2 | 1.5 | 0.4 |
| 24 | Gross output of nonprofit institutions | 1,290.3 | 1,311.5 | 21.2 | 1.6 | 1,290.3 | 1,312.4 | 22.1 | 1.7 | 0.9 | 0.1 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 948.7 | 963.7 | 15.0 | 1.6 | 948.7 | 963.0 | 14.3 | 1.5 | -0.6 | -0.1 |
| 26 | Gross private domestic investment | 3,021.9 | 3,067.1 | 45.2 | 1.5 | 3,021.9 | 3,092.7 | 70.9 | 2.3 | 25.6 | 0.8 |
| 27 | Fixed investment | 2,941.2 | 2,971.9 | 30.7 | 1.0 | 2,941.2 | 2,991.8 | 50.6 | 1.7 | 19.9 | 0.7 |
| 28 | Nonresidential | 2,415.5 | 2,393.2 | -22.2 | -0.9 | 2,415.5 | 2,412.8 | -2.6 | -0.1 | 19.6 | 0.8 |
| 29 | Structures | 551.0 | 491.1 | -59.8 | -10.9 | 551.0 | 510.6 | -40.4 | -7.3 | 19.4 | 3.6 |

table continues on next page

Table A2. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2015Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|--------------------------------------|
| | | 2014 Q4 | 2015 Q4 | Change for 2014Q4 – 2015Q4 | | 2014 Q4 | 2015 Q4 | Change for 2014Q4 – 2015Q4 | | Dollar | Percent change (percent -age points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,116.9 | 1,137.9 | 21.0 | 1.9 | 1,116.9 | 1,133.6 | 16.7 | 1.5 | -4.3 | -0.4 |
| 31 | Information processing equipment | 379.3 | 405.7 | 26.4 | 7.0 | 379.3 | 403.8 | 24.5 | 6.5 | -1.9 | -0.5 |
| 32 | Computers and peripheral equipment | 104.7 | 102.2 | -2.5 | -2.4 | 104.7 | 101.3 | -3.4 | -3.2 | -0.9 | -0.8 |
| 33 | Other | 275.1 | 305.2 | 30.1 | 10.9 | 275.1 | 304.3 | 29.2 | 10.6 | -1.0 | -0.3 |
| 34 | Industrial equipment | 215.3 | 217.6 | 2.3 | 1.0 | 215.3 | 217.4 | 2.1 | 1.0 | -0.2 | 0.0 |
| 35 | Transportation equipment | 271.6 | 292.1 | 20.5 | 7.6 | 271.6 | 289.4 | 17.8 | 6.6 | -2.7 | -1.0 |
| 36 | Other equipment | 250.5 | 224.7 | -25.8 | -10.3 | 250.5 | 225.2 | -25.2 | -10.1 | 0.5 | 0.2 |
| 37 | Intellectual property products | 746.6 | 768.3 | 21.7 | 2.9 | 746.6 | 771.3 | 24.7 | 3.3 | 3.0 | 0.4 |
| 38 | Software | 311.9 | 326.2 | 14.3 | 4.6 | 311.9 | 327.1 | 15.2 | 4.9 | 0.9 | 0.3 |
| 39 | Research and development | 360.2 | 366.0 | 5.8 | 1.6 | 360.2 | 368.1 | 7.9 | 2.2 | 2.1 | 0.6 |
| 40 | Entertainment, literary, and artistic originals | 74.4 | 76.3 | 1.9 | 2.6 | 74.4 | 76.3 | 1.9 | 2.6 | 0.0 | 0.0 |
| 41 | Residential | 525.2 | 573.0 | 47.9 | 9.1 | 525.2 | 573.6 | 48.5 | 9.2 | 0.6 | 0.1 |
| 42 | Change in private inventories | 82.0 | 86.0 | 4.0 | --- | 82.0 | 91.4 | 9.4 | --- | 5.4 | --- |
| 43 | Farm | -4.4 | 0.2 | 4.6 | --- | -4.4 | -1.2 | 3.2 | --- | -1.4 | --- |
| 44 | Nonfarm | 87.0 | 85.1 | -1.9 | --- | 87.0 | 91.8 | 4.9 | --- | 6.8 | --- |
| 45 | Net exports of goods and services | -617.9 | -752.8 | -134.9 | --- | -617.9 | -754.5 | -136.6 | --- | -1.7 | --- |
| 46 | Exports | 2,400.3 | 2,363.2 | -37.1 | -1.5 | 2,400.3 | 2,363.5 | -36.8 | -1.5 | 0.3 | 0.0 |
| 47 | Goods | 1,672.2 | 1,620.8 | -51.4 | -3.1 | 1,672.2 | 1,624.1 | -48.1 | -2.9 | 3.3 | 0.2 |
| 48 | Services | 728.7 | 740.3 | 11.6 | 1.6 | 728.7 | 737.7 | 9.1 | 1.2 | -2.6 | -0.4 |
| 49 | Imports | 3,018.2 | 3,116.0 | 97.8 | 3.2 | 3,018.2 | 3,118.0 | 99.8 | 3.3 | 2.0 | 0.1 |
| 50 | Goods | 2,539.5 | 2,621.5 | 81.9 | 3.2 | 2,539.5 | 2,620.2 | 80.7 | 3.2 | -1.3 | 0.0 |
| 51 | Services | 479.8 | 495.5 | 15.7 | 3.3 | 479.8 | 498.2 | 18.4 | 3.8 | 2.7 | 0.5 |
| 52 | Government consumption expenditures and gross investment | 3,043.4 | 3,113.6 | 70.2 | 2.3 | 3,043.4 | 3,110.0 | 66.6 | 2.2 | -3.6 | -0.1 |
| 53 | Federal | 1,175.5 | 1,188.6 | 13.1 | 1.1 | 1,175.5 | 1,190.5 | 15.0 | 1.3 | 1.8 | 0.2 |
| 54 | National defense | 716.6 | 713.9 | -2.7 | -0.4 | 716.6 | 714.0 | -2.6 | -0.4 | 0.1 | 0.0 |
| 55 | Consumption expenditures | 574.2 | 572.2 | -2.0 | -0.3 | 574.2 | 572.1 | -2.0 | -0.4 | 0.0 | -0.1 |
| 56 | Gross investment | 142.4 | 141.7 | -0.7 | -0.5 | 142.4 | 141.8 | -0.6 | -0.4 | 0.1 | 0.1 |
| 57 | Nondefense | 458.6 | 474.2 | 15.6 | 3.4 | 458.6 | 476.0 | 17.4 | 3.8 | 1.8 | 0.4 |
| 58 | Consumption expenditures | 340.7 | 354.5 | 13.8 | 4.0 | 340.7 | 353.4 | 12.7 | 3.7 | -1.1 | -0.3 |
| 59 | Gross investment | 117.9 | 119.7 | 1.8 | 1.5 | 117.9 | 122.6 | 4.7 | 4.0 | 2.9 | 2.5 |
| 60 | State and local | 1,866.6 | 1,923.3 | 56.7 | 3.0 | 1,866.6 | 1,918.0 | 51.4 | 2.8 | -5.3 | -0.2 |
| 61 | Consumption expenditures | 1,535.2 | 1,586.4 | 51.2 | 3.3 | 1,535.2 | 1,579.3 | 44.1 | 2.9 | -7.1 | -0.4 |
| 62 | Gross investment | 331.4 | 336.8 | 5.4 | 1.6 | 331.4 | 338.7 | 7.3 | 2.2 | 1.8 | 0.6 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 17,470.9 | 17,701.9 | 231.0 | 1.3 | 17,467.3 | 17,704.5 | 237.2 | 1.4 | 6.2 | 0.1 |
| 64 | Average of GDP and GDI ² | 17,307.0 | 17,585.4 | 278.4 | 1.6 | 17,305.2 | 17,609.3 | 304.1 | 1.8 | 25.7 | 0.2 |
| 65 | Final sales of domestic product | 17,062.8 | 17,373.8 | 311.0 | 1.8 | 17,062.8 | 17,413.3 | 350.5 | 2.1 | 39.5 | 0.3 |
| 66 | Gross domestic purchases | 17,757.1 | 18,207.7 | 450.5 | 2.5 | 17,757.1 | 18,254.9 | 497.7 | 2.8 | 47.2 | 0.3 |
| 67 | Gross national product | 17,363.8 | 17,699.5 | 335.7 | 1.9 | 17,363.8 | 17,741.3 | 377.5 | 2.2 | 41.8 | 0.3 |
| 68 | Disposable personal income ³ | 13,089.7 | 13,478.6 | 388.9 | 3.0 | 13,089.1 | 13,490.5 | 401.4 | 3.1 | 12.5 | 0.1 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A3. Revisions to Real GDP, Expanded Detail, Over the Period 2015Q4 – 2016Q4
[Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2015 Q4 | 2016 Q4 | Change for 2015Q4 – 2016Q4 | | 2015 Q4 | 2016 Q4 | Change for 2015Q4 – 2016Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 17,468.9 | 17,824.2 | 355.3 | 2.0 | 17,514.1 | 17,876.2 | 362.1 | 2.1 | 6.8 | 0.1 |
| 2 | Personal consumption expenditures | 12,030.2 | 12,365.3 | 335.1 | 2.8 | 12,055.4 | 12,380.0 | 324.6 | 2.7 | -10.4 | -0.1 |
| 3 | Goods | 4,133.7 | 4,284.2 | 150.5 | 3.6 | 4,136.5 | 4,286.7 | 150.2 | 3.6 | -0.3 | 0.0 |
| 4 | Durable goods | 1,421.1 | 1,525.4 | 104.3 | 7.3 | 1,423.3 | 1,522.2 | 98.9 | 7.0 | -5.4 | -0.3 |
| 5 | Motor vehicles and parts | 469.3 | 502.4 | 33.1 | 7.1 | 471.7 | 504.7 | 32.9 | 7.0 | -0.2 | -0.1 |
| 6 | Furnishings and durable household equipment | 328.3 | 350.7 | 22.4 | 6.8 | 329.1 | 351.4 | 22.3 | 6.8 | -0.1 | 0.0 |
| 7 | Recreational goods and vehicles | 398.4 | 447.8 | 49.4 | 12.4 | 397.3 | 439.9 | 42.6 | 10.7 | -6.8 | -1.7 |
| 8 | Other durable goods | 226.7 | 227.8 | 1.1 | 0.5 | 226.5 | 228.7 | 2.2 | 1.0 | 1.1 | 0.5 |
| 9 | Nondurable goods | 2,716.4 | 2,765.2 | 48.8 | 1.8 | 2,716.9 | 2,770.7 | 53.7 | 2.0 | 4.9 | 0.2 |
| 10 | Food and beverages purchased for off-premises consumption | 886.5 | 922.3 | 35.8 | 4.0 | 887.7 | 924.4 | 36.7 | 4.1 | 0.9 | 0.1 |
| 11 | Clothing and footwear | 370.4 | 373.7 | 3.3 | 0.9 | 370.6 | 375.9 | 5.3 | 1.4 | 2.0 | 0.5 |
| 12 | Gasoline and other energy goods | 451.5 | 446.9 | -4.6 | -1.0 | 449.8 | 446.4 | -3.5 | -0.8 | 1.1 | 0.2 |
| 13 | Other nondurable goods | 1,008.2 | 1,017.3 | 9.1 | 0.9 | 1,008.4 | 1,018.5 | 10.1 | 1.0 | 1.0 | 0.1 |
| 14 | Services | 7,903.1 | 8,092.2 | 189.2 | 2.4 | 7,924.9 | 8,104.3 | 179.3 | 2.3 | -9.9 | -0.1 |
| 15 | Household consumption expenditures (for services) | 7,555.1 | 7,736.7 | 181.5 | 2.4 | 7,575.5 | 7,745.2 | 169.7 | 2.2 | -11.8 | -0.2 |
| 16 | Housing and utilities | 2,094.4 | 2,124.3 | 30.0 | 1.4 | 2,097.5 | 2,128.0 | 30.5 | 1.5 | 0.6 | 0.1 |
| 17 | Health care | 2,013.3 | 2,098.3 | 85.0 | 4.2 | 2,016.8 | 2,099.8 | 83.0 | 4.1 | -2.0 | -0.1 |
| 18 | Transportation services | 394.4 | 412.5 | 18.1 | 4.6 | 394.2 | 412.3 | 18.1 | 4.6 | 0.0 | 0.0 |
| 19 | Recreation services | 478.6 | 488.1 | 9.5 | 2.0 | 478.3 | 486.9 | 8.7 | 1.8 | -0.8 | -0.2 |
| 20 | Food services and accommodations | 782.6 | 793.5 | 10.9 | 1.4 | 783.2 | 794.9 | 11.7 | 1.5 | 0.9 | 0.1 |
| 21 | Financial services and insurance | 833.8 | 816.9 | -16.9 | -2.0 | 837.5 | 823.2 | -14.3 | -1.7 | 2.5 | 0.3 |
| 22 | Other services | 962.5 | 1,014.1 | 51.6 | 5.4 | 972.4 | 1,010.3 | 37.8 | 3.9 | -13.8 | -1.5 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 348.1 | 355.7 | 7.6 | 2.2 | 349.6 | 359.1 | 9.5 | 2.7 | 1.9 | 0.5 |
| 24 | Gross output of nonprofit institutions | 1,311.5 | 1,365.2 | 53.7 | 4.1 | 1,312.4 | 1,368.7 | 56.3 | 4.3 | 2.6 | 0.2 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 963.7 | 1,010.1 | 46.4 | 4.8 | 963.0 | 1,010.0 | 47.0 | 4.9 | 0.6 | 0.1 |
| 26 | Gross private domestic investment | 3,067.1 | 3,114.0 | 46.9 | 1.5 | 3,092.7 | 3,130.1 | 37.4 | 1.2 | -9.5 | -0.3 |
| 27 | Fixed investment | 2,971.9 | 3,053.7 | 81.8 | 2.8 | 2,991.8 | 3,062.2 | 70.5 | 2.4 | -11.4 | -0.4 |
| 28 | Nonresidential | 2,393.2 | 2,451.2 | 58.0 | 2.4 | 2,412.8 | 2,457.4 | 44.5 | 1.8 | -13.4 | -0.6 |
| 29 | Structures | 491.1 | 512.1 | 21.0 | 4.3 | 510.6 | 528.5 | 17.9 | 3.5 | -3.0 | -0.8 |

table continues on next page

Table A3. Revisions to Real GDP, Expanded Detail, Over the Period 2015Q4 – 2016Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2015 Q4 | 2016 Q4 | Change for 2015Q4 – 2016Q4 | | 2015 Q4 | 2016 Q4 | Change for 2015Q4 – 2016Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,137.9 | 1,122.0 | -15.9 | -1.4 | 1,133.6 | 1,108.7 | -24.9 | -2.2 | -9.0 | -0.8 |
| 31 | Information processing equipment | 405.7 | 426.0 | 20.4 | 5.0 | 403.8 | 418.1 | 14.3 | 3.5 | -6.0 | -1.5 |
| 32 | Computers and peripheral equipment | 102.2 | 104.3 | 2.1 | 2.1 | 101.3 | 103.1 | 1.8 | 1.8 | -0.3 | -0.3 |
| 33 | Other | 305.2 | 324.1 | 18.9 | 6.2 | 304.3 | 317.2 | 13.0 | 4.3 | -5.9 | -1.9 |
| 34 | Industrial equipment | 217.6 | 217.0 | -0.6 | -0.3 | 217.4 | 214.9 | -2.5 | -1.2 | -1.9 | -0.9 |
| 35 | Transportation equipment | 292.1 | 266.3 | -25.8 | -8.8 | 289.4 | 268.0 | -21.3 | -7.4 | 4.5 | 1.4 |
| 36 | Other equipment | 224.7 | 219.7 | -5.0 | -2.2 | 225.2 | 214.1 | -11.1 | -4.9 | -6.1 | -2.7 |
| 37 | Intellectual property products | 768.3 | 819.2 | 50.9 | 6.6 | 771.3 | 820.8 | 49.5 | 6.4 | -1.4 | -0.2 |
| 38 | Software | 326.2 | 354.9 | 28.7 | 8.8 | 327.1 | 355.7 | 28.6 | 8.7 | -0.1 | -0.1 |
| 39 | Research and development | 366.0 | 386.2 | 20.2 | 5.5 | 368.1 | 387.0 | 18.9 | 5.1 | -1.4 | -0.4 |
| 40 | Entertainment, literary, and artistic originals | 76.3 | 79.0 | 2.7 | 3.5 | 76.3 | 79.1 | 2.8 | 3.6 | 0.1 | 0.1 |
| 41 | Residential | 573.0 | 595.5 | 22.4 | 3.9 | 573.6 | 597.6 | 24.0 | 4.2 | 1.6 | 0.3 |
| 42 | Change in private inventories | 86.0 | 44.8 | -41.2 | --- | 91.4 | 52.3 | -39.1 | --- | 2.1 | --- |
| 43 | Farm | 0.2 | -7.4 | -7.6 | --- | -1.2 | -7.3 | -6.1 | --- | 1.5 | --- |
| 44 | Nonfarm | 85.1 | 50.1 | -35.0 | --- | 91.8 | 57.3 | -34.5 | --- | 0.5 | --- |
| 45 | Net exports of goods and services | -752.8 | -834.6 | -81.8 | --- | -754.5 | -806.3 | -51.8 | --- | 30.0 | --- |
| 46 | Exports | 2,363.2 | 2,388.1 | 24.9 | 1.1 | 2,363.5 | 2,397.9 | 34.3 | 1.5 | 9.4 | 0.4 |
| 47 | Goods | 1,620.8 | 1,660.7 | 39.9 | 2.5 | 1,624.1 | 1,665.0 | 40.8 | 2.5 | 1.0 | 0.0 |
| 48 | Services | 740.3 | 728.8 | -11.5 | -1.6 | 737.7 | 733.9 | -3.8 | -0.5 | 7.7 | 1.1 |
| 49 | Imports | 3,116.0 | 3,222.7 | 106.7 | 3.4 | 3,118.0 | 3,204.2 | 86.2 | 2.8 | -20.6 | -0.6 |
| 50 | Goods | 2,621.5 | 2,703.1 | 81.6 | 3.1 | 2,620.2 | 2,700.8 | 80.6 | 3.1 | -1.0 | 0.0 |
| 51 | Services | 495.5 | 519.2 | 23.7 | 4.8 | 498.2 | 505.1 | 6.9 | 1.4 | -16.8 | -3.4 |
| 52 | Government consumption expenditures and gross investment | 3,113.6 | 3,159.3 | 45.7 | 1.5 | 3,110.0 | 3,156.6 | 46.6 | 1.5 | 0.8 | 0.0 |
| 53 | Federal | 1,188.6 | 1,189.9 | 1.3 | 0.1 | 1,190.5 | 1,191.2 | 0.7 | 0.1 | -0.5 | 0.0 |
| 54 | National defense | 713.9 | 708.1 | -5.8 | -0.8 | 714.0 | 709.0 | -5.0 | -0.7 | 0.9 | 0.1 |
| 55 | Consumption expenditures | 572.2 | 572.7 | 0.5 | 0.1 | 572.1 | 574.9 | 2.8 | 0.5 | 2.2 | 0.4 |
| 56 | Gross investment | 141.7 | 135.3 | -6.4 | -4.5 | 141.8 | 134.0 | -7.8 | -5.5 | -1.4 | -1.0 |
| 57 | Nondefense | 474.2 | 481.1 | 6.9 | 1.5 | 476.0 | 481.5 | 5.5 | 1.2 | -1.4 | -0.3 |
| 58 | Consumption expenditures | 354.5 | 358.2 | 3.7 | 1.0 | 353.4 | 354.3 | 0.8 | 0.2 | -2.8 | -0.8 |
| 59 | Gross investment | 119.7 | 123.0 | 3.3 | 2.7 | 122.6 | 127.4 | 4.8 | 3.9 | 1.5 | 1.2 |
| 60 | State and local | 1,923.3 | 1,967.4 | 44.1 | 2.3 | 1,918.0 | 1,963.4 | 45.5 | 2.4 | 1.3 | 0.1 |
| 61 | Consumption expenditures | 1,586.4 | 1,617.5 | 31.1 | 2.0 | 1,579.3 | 1,611.0 | 31.7 | 2.0 | 0.7 | 0.0 |
| 62 | Gross investment | 336.8 | 349.9 | 13.1 | 3.9 | 338.7 | 352.4 | 13.7 | 4.1 | 0.6 | 0.2 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 17,701.9 | 17,865.2 | 163.3 | 0.9 | 17,704.5 | 17,917.6 | 213.1 | 1.2 | 49.8 | 0.3 |
| 64 | Average of GDP and GDI ² | 17,585.4 | 17,844.7 | 259.3 | 1.5 | 17,609.3 | 17,896.9 | 287.6 | 1.6 | 28.3 | 0.1 |
| 65 | Final sales of domestic product | 17,373.8 | 17,763.5 | 389.7 | 2.2 | 17,413.3 | 17,807.9 | 394.6 | 2.3 | 4.9 | 0.1 |
| 66 | Gross domestic purchases | 18,207.7 | 18,635.1 | 427.4 | 2.3 | 18,254.9 | 18,663.2 | 408.3 | 2.2 | -19.1 | -0.1 |
| 67 | Gross national product | 17,699.5 | 18,068.4 | 368.9 | 2.1 | 17,741.3 | 18,138.7 | 397.3 | 2.2 | 28.4 | 0.1 |
| 68 | Disposable personal income ³ | 13,478.6 | 13,696.7 | 218.1 | 1.6 | 13,490.5 | 13,734.8 | 244.3 | 1.8 | 26.2 | 0.2 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A4. Revisions to Real GDP, Expanded Detail, Over the Period 2016Q4 – 2017Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2016 Q4 | 2017 Q4 | Change for 2016Q4 – 2017Q4 | | 2016 Q4 | 2017 Q4 | Change for 2016Q4 – 2017Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 17,824.2 | 18,322.5 | 498.2 | 2.8 | 17,876.2 | 18,359.4 | 483.3 | 2.7 | -15.0 | -0.1 |
| 2 | Personal consumption expenditures | 12,365.3 | 12,729.7 | 364.4 | 2.9 | 12,380.0 | 12,733.7 | 353.7 | 2.9 | -10.7 | 0.0 |
| 3 | Goods | 4,284.2 | 4,499.8 | 215.6 | 5.0 | 4,286.7 | 4,508.3 | 221.6 | 5.2 | 6.0 | 0.2 |
| 4 | Durable goods | 1,525.4 | 1,643.5 | 118.1 | 7.7 | 1,522.2 | 1,645.7 | 123.5 | 8.1 | 5.3 | 0.4 |
| 5 | Motor vehicles and parts | 502.4 | 532.6 | 30.2 | 6.0 | 504.7 | 534.1 | 29.4 | 5.8 | -0.8 | -0.2 |
| 6 | Furnishings and durable household equipment | 350.7 | 385.2 | 34.5 | 9.8 | 351.4 | 386.8 | 35.4 | 10.1 | 0.9 | 0.3 |
| 7 | Recreational goods and vehicles | 447.8 | 492.4 | 44.6 | 10.0 | 439.9 | 490.6 | 50.7 | 11.5 | 6.1 | 1.5 |
| 8 | Other durable goods | 227.8 | 238.7 | 10.9 | 4.8 | 228.7 | 239.5 | 10.8 | 4.7 | -0.1 | -0.1 |
| 9 | Nondurable goods | 2,765.2 | 2,866.7 | 101.5 | 3.7 | 2,770.7 | 2,873.2 | 102.5 | 3.7 | 1.0 | 0.0 |
| 10 | Food and beverages purchased for off-premises consumption | 922.3 | 957.2 | 34.9 | 3.8 | 924.4 | 957.2 | 32.8 | 3.5 | -2.1 | -0.3 |
| 11 | Clothing and footwear | 373.7 | 385.5 | 11.8 | 3.2 | 375.9 | 389.0 | 13.1 | 3.5 | 1.3 | 0.3 |
| 12 | Gasoline and other energy goods | 446.9 | 448.0 | 1.1 | 0.3 | 446.4 | 448.5 | 2.2 | 0.5 | 1.0 | 0.2 |
| 13 | Other nondurable goods | 1,017.3 | 1,065.4 | 48.1 | 4.7 | 1,018.5 | 1,067.8 | 49.3 | 4.8 | 1.2 | 0.1 |
| 14 | Services | 8,092.2 | 8,254.9 | 162.7 | 2.0 | 8,104.3 | 8,251.9 | 147.6 | 1.8 | -15.1 | -0.2 |
| 15 | Household consumption expenditures (for services) | 7,736.7 | 7,906.2 | 169.5 | 2.2 | 7,745.2 | 7,903.9 | 158.7 | 2.0 | -10.8 | -0.2 |
| 16 | Housing and utilities | 2,124.3 | 2,150.0 | 25.7 | 1.2 | 2,128.0 | 2,153.3 | 25.3 | 1.2 | -0.4 | 0.0 |
| 17 | Health care | 2,098.3 | 2,146.9 | 48.6 | 2.3 | 2,099.8 | 2,146.0 | 46.2 | 2.2 | -2.5 | -0.1 |
| 18 | Transportation services | 412.5 | 430.2 | 17.7 | 4.3 | 412.3 | 431.8 | 19.4 | 4.7 | 1.8 | 0.4 |
| 19 | Recreation services | 488.1 | 483.6 | -4.5 | -0.9 | 486.9 | 482.2 | -4.7 | -1.0 | -0.2 | -0.1 |
| 20 | Food services and accommodations | 793.5 | 817.7 | 24.2 | 3.1 | 794.9 | 814.8 | 19.9 | 2.5 | -4.3 | -0.6 |
| 21 | Financial services and insurance | 816.9 | 838.8 | 21.9 | 2.7 | 823.2 | 840.8 | 17.6 | 2.1 | -4.3 | -0.6 |
| 22 | Other services | 1,014.1 | 1,051.8 | 37.7 | 3.7 | 1,010.3 | 1,047.5 | 37.2 | 3.7 | -0.5 | 0.0 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 355.7 | 349.6 | -6.2 | -1.7 | 359.1 | 348.8 | -10.3 | -2.9 | -4.1 | -1.2 |
| 24 | Gross output of nonprofit institutions | 1,365.2 | 1,372.6 | 7.3 | 0.5 | 1,368.7 | 1,372.9 | 4.3 | 0.3 | -3.1 | -0.2 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 1,010.1 | 1,024.2 | 14.1 | 1.4 | 1,010.0 | 1,025.4 | 15.4 | 1.5 | 1.3 | 0.1 |
| 26 | Gross private domestic investment | 3,114.0 | 3,262.1 | 148.2 | 4.8 | 3,130.1 | 3,256.7 | 126.6 | 4.0 | -21.6 | -0.8 |
| 27 | Fixed investment | 3,053.7 | 3,210.7 | 157.0 | 5.1 | 3,062.2 | 3,209.2 | 147.0 | 4.8 | -10.0 | -0.3 |
| 28 | Nonresidential | 2,451.2 | 2,584.2 | 133.0 | 5.4 | 2,457.4 | 2,576.4 | 119.0 | 4.8 | -13.9 | -0.6 |
| 29 | Structures | 512.1 | 519.9 | 7.8 | 1.5 | 528.5 | 528.4 | -0.1 | 0.0 | -7.9 | -1.5 |

table continues on next page

Table A4. Revisions to Real GDP, Expanded Detail, Over the Period 2016Q4 – 2017Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2016 Q4 | 2017 Q4 | Change for 2016Q4 – 2017Q4 | | 2016 Q4 | 2017 Q4 | Change for 2016Q4 – 2017Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,122.0 | 1,217.8 | 95.8 | 8.5 | 1,108.7 | 1,191.4 | 82.7 | 7.5 | -13.2 | -1.0 |
| 31 | Information processing equipment | 426.0 | 477.2 | 51.2 | 12.0 | 418.1 | 458.9 | 40.8 | 9.8 | -10.4 | -2.2 |
| 32 | Computers and peripheral equipment | 104.3 | 113.8 | 9.5 | 9.1 | 103.1 | 112.6 | 9.6 | 9.3 | 0.1 | 0.2 |
| 33 | Other | 324.1 | 366.8 | 42.7 | 13.2 | 317.2 | 348.8 | 31.6 | 10.0 | -11.1 | -3.2 |
| 34 | Industrial equipment | 217.0 | 234.4 | 17.4 | 8.0 | 214.9 | 233.9 | 19.0 | 8.8 | 1.6 | 0.8 |
| 35 | Transportation equipment | 266.3 | 269.9 | 3.6 | 1.3 | 268.0 | 279.8 | 11.7 | 4.4 | 8.2 | 3.1 |
| 36 | Other equipment | 219.7 | 247.4 | 27.7 | 12.6 | 214.1 | 227.9 | 13.8 | 6.5 | -13.9 | -6.1 |
| 37 | Intellectual property products | 819.2 | 852.0 | 32.9 | 4.0 | 820.8 | 860.9 | 40.1 | 4.9 | 7.2 | 0.9 |
| 38 | Software | 354.9 | 383.5 | 28.6 | 8.1 | 355.7 | 386.5 | 30.8 | 8.7 | 2.2 | 0.6 |
| 39 | Research and development | 386.2 | 390.9 | 4.6 | 1.2 | 387.0 | 397.1 | 10.1 | 2.6 | 5.5 | 1.4 |
| 40 | Entertainment, literary, and artistic originals | 79.0 | 80.6 | 1.6 | 2.0 | 79.1 | 79.9 | 0.9 | 1.1 | -0.8 | -0.9 |
| 41 | Residential | 595.5 | 620.4 | 24.9 | 4.2 | 597.6 | 625.5 | 27.9 | 4.7 | 3.0 | 0.5 |
| 42 | Change in private inventories | 44.8 | 31.1 | -13.7 | --- | 52.3 | 25.3 | -27.0 | --- | -13.3 | --- |
| 43 | Farm | -7.4 | -5.2 | 2.2 | --- | -7.3 | -7.3 | 0.0 | --- | -2.2 | --- |
| 44 | Nonfarm | 50.1 | 34.9 | -15.1 | --- | 57.3 | 30.9 | -26.4 | --- | -11.3 | --- |
| 45 | Net exports of goods and services | -834.6 | -883.8 | -49.2 | --- | -806.3 | -847.0 | -40.6 | --- | 8.5 | --- |
| 46 | Exports | 2,388.1 | 2,519.2 | 131.1 | 5.5 | 2,397.9 | 2,536.2 | 138.4 | 5.8 | 7.2 | 0.3 |
| 47 | Goods | 1,660.7 | 1,758.1 | 97.4 | 5.9 | 1,665.0 | 1,766.4 | 101.4 | 6.1 | 4.0 | 0.2 |
| 48 | Services | 728.8 | 763.7 | 34.9 | 4.8 | 733.9 | 771.9 | 37.9 | 5.2 | 3.0 | 0.4 |
| 49 | Imports | 3,222.7 | 3,403.0 | 180.3 | 5.6 | 3,204.2 | 3,383.2 | 179.0 | 5.6 | -1.3 | 0.0 |
| 50 | Goods | 2,703.1 | 2,865.8 | 162.7 | 6.0 | 2,700.8 | 2,862.0 | 161.2 | 6.0 | -1.5 | 0.0 |
| 51 | Services | 519.2 | 538.9 | 19.6 | 3.8 | 505.1 | 525.1 | 20.0 | 4.0 | 0.3 | 0.2 |
| 52 | Government consumption expenditures and gross investment | 3,159.3 | 3,186.1 | 26.8 | 0.8 | 3,156.6 | 3,192.8 | 36.2 | 1.1 | 9.4 | 0.3 |
| 53 | Federal | 1,189.9 | 1,209.8 | 19.9 | 1.7 | 1,191.2 | 1,206.0 | 14.8 | 1.2 | -5.1 | -0.5 |
| 54 | National defense | 708.1 | 721.4 | 13.3 | 1.9 | 709.0 | 724.7 | 15.7 | 2.2 | 2.4 | 0.3 |
| 55 | Consumption expenditures | 572.7 | 575.3 | 2.6 | 0.5 | 574.9 | 578.0 | 3.0 | 0.5 | 0.5 | 0.0 |
| 56 | Gross investment | 135.3 | 146.2 | 10.9 | 8.0 | 134.0 | 146.9 | 12.8 | 9.6 | 2.0 | 1.6 |
| 57 | Nondefense | 481.1 | 487.7 | 6.6 | 1.4 | 481.5 | 480.8 | -0.7 | -0.1 | -7.3 | -1.5 |
| 58 | Consumption expenditures | 358.2 | 362.2 | 4.0 | 1.1 | 354.3 | 352.0 | -2.3 | -0.6 | -6.3 | -1.7 |
| 59 | Gross investment | 123.0 | 125.6 | 2.6 | 2.1 | 127.4 | 129.0 | 1.6 | 1.3 | -1.0 | -0.8 |
| 60 | State and local | 1,967.4 | 1,974.5 | 7.1 | 0.4 | 1,963.4 | 1,984.9 | 21.4 | 1.1 | 14.3 | 0.7 |
| 61 | Consumption expenditures | 1,617.5 | 1,625.9 | 8.4 | 0.5 | 1,611.0 | 1,625.5 | 14.5 | 0.9 | 6.1 | 0.4 |
| 62 | Gross investment | 349.9 | 348.6 | -1.3 | -0.4 | 352.4 | 359.3 | 6.9 | 2.0 | 8.2 | 2.4 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 17,865.2 | 18,310.2 | 445.0 | 2.5 | 17,917.6 | 18,437.6 | 519.9 | 2.9 | 74.9 | 0.4 |
| 64 | Average of GDP and GDI ² | 17,844.7 | 18,316.3 | 471.6 | 2.6 | 17,896.9 | 18,398.5 | 501.6 | 2.8 | 30.0 | 0.2 |
| 65 | Final sales of domestic product | 17,763.5 | 18,270.7 | 507.2 | 2.9 | 17,807.9 | 18,311.4 | 503.4 | 2.8 | -3.7 | -0.1 |
| 66 | Gross domestic purchases | 18,635.1 | 19,173.1 | 538.0 | 2.9 | 18,663.2 | 19,178.8 | 515.6 | 2.8 | -22.4 | -0.1 |
| 67 | Gross national product | 18,068.4 | 18,580.7 | 512.3 | 2.8 | 18,138.7 | 18,663.1 | 524.4 | 2.9 | 12.1 | 0.1 |
| 68 | Disposable personal income ³ | 13,696.7 | 14,162.4 | 465.7 | 3.4 | 13,734.8 | 14,205.8 | 471.0 | 3.4 | 5.3 | 0.0 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A5. Revisions to Real GDP, Expanded Detail, Over the Period 2017Q4 – 2018Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2017 Q4 | 2018 Q4 | Change for 2017Q4 – 2018Q4 | | 2017 Q4 | 2018 Q4 | Change for 2017Q4 – 2018Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 18,322.5 | 18,783.5 | 461.1 | 2.5 | 18,359.4 | 18,813.9 | 454.5 | 2.5 | -6.6 | 0.0 |
| 2 | Personal consumption expenditures | 12,729.7 | 13,066.3 | 336.6 | 2.6 | 12,733.7 | 13,033.4 | 299.6 | 2.4 | -36.9 | -0.2 |
| 3 | Goods | 4,499.8 | 4,631.8 | 132.0 | 2.9 | 4,508.3 | 4,639.8 | 131.6 | 2.9 | -0.4 | 0.0 |
| 4 | Durable goods | 1,643.5 | 1,705.2 | 61.7 | 3.8 | 1,645.7 | 1,714.3 | 68.6 | 4.2 | 6.9 | 0.4 |
| 5 | Motor vehicles and parts | 532.6 | 538.5 | 5.9 | 1.1 | 534.1 | 537.1 | 3.0 | 0.6 | -3.0 | -0.5 |
| 6 | Furnishings and durable household equipment | 385.2 | 394.0 | 8.8 | 2.3 | 386.8 | 398.2 | 11.5 | 3.0 | 2.7 | 0.7 |
| 7 | Recreational goods and vehicles | 492.4 | 524.8 | 32.5 | 6.6 | 490.6 | 536.9 | 46.4 | 9.5 | 13.9 | 2.9 |
| 8 | Other durable goods | 238.7 | 256.6 | 17.8 | 7.5 | 239.5 | 252.8 | 13.3 | 5.5 | -4.6 | -2.0 |
| 9 | Nondurable goods | 2,866.7 | 2,938.9 | 72.2 | 2.5 | 2,873.2 | 2,938.9 | 65.7 | 2.3 | -6.5 | -0.2 |
| 10 | Food and beverages purchased for off-premises consumption | 957.2 | 977.2 | 20.0 | 2.1 | 957.2 | 970.4 | 13.3 | 1.4 | -6.7 | -0.7 |
| 11 | Clothing and footwear | 385.5 | 400.5 | 15.0 | 3.9 | 389.0 | 403.7 | 14.8 | 3.8 | -0.3 | -0.1 |
| 12 | Gasoline and other energy goods | 448.0 | 448.5 | 0.4 | 0.1 | 448.5 | 446.8 | -1.8 | -0.4 | -2.2 | -0.5 |
| 13 | Other nondurable goods | 1,065.4 | 1,099.2 | 33.9 | 3.2 | 1,067.8 | 1,104.0 | 36.2 | 3.4 | 2.4 | 0.2 |
| 14 | Services | 8,254.9 | 8,462.6 | 207.7 | 2.5 | 8,251.9 | 8,425.1 | 173.2 | 2.1 | -34.5 | -0.4 |
| 15 | Household consumption expenditures (for services) | 7,906.2 | 8,075.1 | 169.0 | 2.1 | 7,903.9 | 8,045.9 | 142.0 | 1.8 | -27.0 | -0.3 |
| 16 | Housing and utilities | 2,150.0 | 2,172.7 | 22.7 | 1.1 | 2,153.3 | 2,177.7 | 24.4 | 1.1 | 1.7 | 0.0 |
| 17 | Health care | 2,146.9 | 2,192.4 | 45.5 | 2.1 | 2,146.0 | 2,183.8 | 37.8 | 1.8 | -7.7 | -0.3 |
| 18 | Transportation services | 430.2 | 429.9 | -0.2 | -0.1 | 431.8 | 432.3 | 0.5 | 0.1 | 0.7 | 0.2 |
| 19 | Recreation services | 483.6 | 503.3 | 19.8 | 4.1 | 482.2 | 499.1 | 16.8 | 3.5 | -2.9 | -0.6 |
| 20 | Food services and accommodations | 817.7 | 849.4 | 31.7 | 3.9 | 814.8 | 835.7 | 20.9 | 2.6 | -10.8 | -1.3 |
| 21 | Financial services and insurance | 838.8 | 844.9 | 6.1 | 0.7 | 840.8 | 844.3 | 3.5 | 0.4 | -2.6 | -0.3 |
| 22 | Other services | 1,051.8 | 1,098.7 | 46.8 | 4.5 | 1,047.5 | 1,088.6 | 41.2 | 3.9 | -5.6 | -0.6 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 349.6 | 386.9 | 37.3 | 10.7 | 348.8 | 378.9 | 30.1 | 8.6 | -7.2 | -2.1 |
| 24 | Gross output of nonprofit institutions | 1,372.6 | 1,419.8 | 47.2 | 3.4 | 1,372.9 | 1,413.3 | 40.4 | 2.9 | -6.8 | -0.5 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 1,024.2 | 1,032.2 | 8.0 | 0.8 | 1,025.4 | 1,034.2 | 8.8 | 0.9 | 0.8 | 0.1 |
| 26 | Gross private domestic investment | 3,262.1 | 3,429.5 | 167.4 | 5.1 | 3,256.7 | 3,448.3 | 191.6 | 5.9 | 24.2 | 0.8 |
| 27 | Fixed investment | 3,210.7 | 3,323.0 | 112.4 | 3.5 | 3,209.2 | 3,338.7 | 129.4 | 4.0 | 17.1 | 0.5 |
| 28 | Nonresidential | 2,584.2 | 2,735.8 | 151.6 | 5.9 | 2,576.4 | 2,742.6 | 166.2 | 6.5 | 14.6 | 0.6 |
| 29 | Structures | 519.9 | 533.4 | 13.5 | 2.6 | 528.4 | 534.9 | 6.5 | 1.2 | -7.0 | -1.4 |

table continues on next page

Table A5. Revisions to Real GDP, Expanded Detail, Over the Period 2017Q4 – 2018Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2017 Q4 | 2018 Q4 | Change for 2017Q4 – 2018Q4 | | 2017 Q4 | 2018 Q4 | Change for 2017Q4 – 2018Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,217.8 | 1,279.2 | 61.4 | 5.0 | 1,191.4 | 1,274.8 | 83.4 | 7.0 | 22.0 | 2.0 |
| 31 | Information processing equipment | 477.2 | 504.2 | 26.9 | 5.6 | 458.9 | 483.9 | 25.0 | 5.5 | -1.9 | -0.1 |
| 32 | Computers and peripheral equipment | 113.8 | 122.7 | 8.9 | 7.8 | 112.6 | 123.8 | 11.1 | 9.9 | 2.2 | 2.1 |
| 33 | Other | 366.8 | 384.5 | 17.7 | 4.8 | 348.8 | 361.8 | 12.9 | 3.7 | -4.8 | -1.1 |
| 34 | Industrial equipment | 234.4 | 242.5 | 8.1 | 3.4 | 233.9 | 251.7 | 17.9 | 7.6 | 9.8 | 4.2 |
| 35 | Transportation equipment | 269.9 | 289.6 | 19.8 | 7.3 | 279.8 | 298.0 | 18.3 | 6.5 | -1.5 | -0.8 |
| 36 | Other equipment | 247.4 | 254.9 | 7.5 | 3.0 | 227.9 | 249.2 | 21.3 | 9.3 | 13.8 | 6.3 |
| 37 | Intellectual property products | 852.0 | 931.3 | 79.3 | 9.3 | 860.9 | 941.5 | 80.6 | 9.4 | 1.3 | 0.1 |
| 38 | Software | 383.5 | 428.0 | 44.6 | 11.6 | 386.5 | 432.6 | 46.1 | 11.9 | 1.5 | 0.3 |
| 39 | Research and development | 390.9 | 422.7 | 31.9 | 8.2 | 397.1 | 430.0 | 32.9 | 8.3 | 1.0 | 0.1 |
| 40 | Entertainment, literary, and artistic originals | 80.6 | 85.2 | 4.6 | 5.7 | 79.9 | 83.4 | 3.4 | 4.3 | -1.1 | -1.4 |
| 41 | Residential | 620.4 | 593.0 | -27.4 | -4.4 | 625.5 | 601.0 | -24.5 | -3.9 | 2.9 | 0.5 |
| 42 | Change in private inventories | 31.1 | 93.0 | 61.9 | --- | 25.3 | 92.3 | 67.0 | --- | 5.1 | --- |
| 43 | Farm | -5.2 | -13.7 | -8.5 | --- | -7.3 | -12.2 | -4.9 | --- | 3.6 | --- |
| 44 | Nonfarm | 34.9 | 103.0 | 68.1 | --- | 30.9 | 100.8 | 70.0 | --- | 1.8 | --- |
| 45 | Net exports of goods and services | -883.8 | -983.0 | -99.2 | --- | -847.0 | -937.3 | -90.3 | --- | 9.0 | --- |
| 46 | Exports | 2,519.2 | 2,528.5 | 9.3 | 0.4 | 2,536.2 | 2,548.8 | 12.5 | 0.5 | 3.2 | 0.1 |
| 47 | Goods | 1,758.1 | 1,782.5 | 24.4 | 1.4 | 1,766.4 | 1,787.9 | 21.5 | 1.2 | -2.9 | -0.2 |
| 48 | Services | 763.7 | 751.7 | -11.9 | -1.6 | 771.9 | 765.2 | -6.7 | -0.9 | 5.3 | 0.7 |
| 49 | Imports | 3,403.0 | 3,511.6 | 108.6 | 3.2 | 3,383.2 | 3,486.0 | 102.8 | 3.0 | -5.7 | -0.2 |
| 50 | Goods | 2,865.8 | 2,962.0 | 96.3 | 3.4 | 2,862.0 | 2,957.9 | 95.9 | 3.4 | -0.3 | 0.0 |
| 51 | Services | 538.9 | 552.0 | 13.1 | 2.4 | 525.1 | 533.8 | 8.7 | 1.7 | -4.4 | -0.7 |
| 52 | Government consumption expenditures and gross investment | 3,186.1 | 3,234.9 | 48.8 | 1.5 | 3,192.8 | 3,240.2 | 47.4 | 1.5 | -1.5 | 0.0 |
| 53 | Federal | 1,209.8 | 1,242.1 | 32.4 | 2.7 | 1,206.0 | 1,241.6 | 35.6 | 3.0 | 3.3 | 0.3 |
| 54 | National defense | 721.4 | 750.6 | 29.2 | 4.0 | 724.7 | 755.1 | 30.4 | 4.2 | 1.2 | 0.2 |
| 55 | Consumption expenditures | 575.3 | 595.7 | 20.4 | 3.5 | 578.0 | 595.1 | 17.2 | 3.0 | -3.2 | -0.5 |
| 56 | Gross investment | 146.2 | 155.1 | 8.9 | 6.1 | 146.9 | 160.4 | 13.6 | 9.2 | 4.6 | 3.1 |
| 57 | Nondefense | 487.7 | 491.3 | 3.5 | 0.7 | 480.8 | 486.4 | 5.5 | 1.1 | 2.0 | 0.4 |
| 58 | Consumption expenditures | 362.2 | 365.1 | 2.9 | 0.8 | 352.0 | 355.7 | 3.7 | 1.1 | 0.8 | 0.3 |
| 59 | Gross investment | 125.6 | 126.2 | 0.7 | 0.5 | 129.0 | 130.9 | 1.8 | 1.4 | 1.2 | 0.9 |
| 60 | State and local | 1,974.5 | 1,991.4 | 16.9 | 0.9 | 1,984.9 | 1,997.1 | 12.3 | 0.6 | -4.6 | -0.3 |
| 61 | Consumption expenditures | 1,625.9 | 1,643.1 | 17.3 | 1.1 | 1,625.5 | 1,643.1 | 17.6 | 1.1 | 0.3 | 0.0 |
| 62 | Gross investment | 348.6 | 348.2 | -0.4 | -0.1 | 359.3 | 354.0 | -5.3 | -1.5 | -4.9 | -1.4 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 18,310.2 | 18,739.3 | 429.1 | 2.3 | 18,437.6 | 18,876.3 | 438.7 | 2.4 | 9.6 | 0.1 |
| 64 | Average of GDP and GDI ² | 18,316.3 | 18,761.4 | 445.1 | 2.4 | 18,398.5 | 18,845.1 | 446.6 | 2.4 | 1.5 | 0.0 |
| 65 | Final sales of domestic product | 18,270.7 | 18,678.3 | 407.7 | 2.2 | 18,311.4 | 18,705.9 | 394.5 | 2.2 | -13.1 | 0.0 |
| 66 | Gross domestic purchases | 19,173.1 | 19,724.2 | 551.0 | 2.9 | 19,178.8 | 19,715.2 | 536.4 | 2.8 | -14.7 | -0.1 |
| 67 | Gross national product | 18,580.7 | 19,028.0 | 447.3 | 2.4 | 18,663.1 | 19,065.5 | 402.4 | 2.2 | -44.9 | -0.2 |
| 68 | Disposable personal income ³ | 14,162.4 | 14,715.2 | 552.8 | 3.9 | 14,205.8 | 14,732.3 | 526.5 | 3.7 | -26.3 | -0.2 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A6. Revisions to Real GDP, Expanded Detail, Over the Period 2018Q4 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2018 Q4 | 2019 Q4 | Change for 2018Q4 – 2019Q4 | | 2018 Q4 | 2019 Q4 | Change for 2018Q4 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 18,783.5 | 19,222.0 | 438.4 | 2.3 | 18,813.9 | 19,254.0 | 440.0 | 2.3 | 1.6 | 0.0 |
| 2 | Personal consumption expenditures | 13,066.3 | 13,413.8 | 347.5 | 2.7 | 13,033.4 | 13,353.7 | 320.3 | 2.5 | -27.2 | -0.2 |
| 3 | Goods | 4,631.8 | 4,814.7 | 182.9 | 3.9 | 4,639.8 | 4,811.8 | 172.0 | 3.7 | -10.9 | -0.2 |
| 4 | Durable goods | 1,705.2 | 1,806.1 | 100.9 | 5.9 | 1,714.3 | 1,811.7 | 97.4 | 5.7 | -3.5 | -0.2 |
| 5 | Motor vehicles and parts | 538.5 | 554.8 | 16.3 | 3.0 | 537.1 | 539.2 | 2.1 | 0.4 | -14.2 | -2.6 |
| 6 | Furnishings and durable household equipment | 394.0 | 411.6 | 17.6 | 4.5 | 398.2 | 417.3 | 19.1 | 4.8 | 1.5 | 0.3 |
| 7 | Recreational goods and vehicles | 524.8 | 588.3 | 63.4 | 12.1 | 536.9 | 613.0 | 76.0 | 14.2 | 12.6 | 2.1 |
| 8 | Other durable goods | 256.6 | 267.2 | 10.6 | 4.1 | 252.8 | 263.7 | 10.9 | 4.3 | 0.3 | 0.2 |
| 9 | Nondurable goods | 2,938.9 | 3,025.7 | 86.8 | 3.0 | 2,938.9 | 3,018.2 | 79.3 | 2.7 | -7.5 | -0.3 |
| 10 | Food and beverages purchased for off-premises consumption | 977.2 | 995.8 | 18.6 | 1.9 | 970.4 | 987.1 | 16.6 | 1.7 | -2.0 | -0.2 |
| 11 | Clothing and footwear | 400.5 | 412.8 | 12.3 | 3.1 | 403.7 | 418.0 | 14.3 | 3.5 | 1.9 | 0.4 |
| 12 | Gasoline and other energy goods | 448.5 | 446.5 | -2.0 | -0.4 | 446.8 | 441.6 | -5.2 | -1.2 | -3.2 | -0.8 |
| 13 | Other nondurable goods | 1,099.2 | 1,152.3 | 53.1 | 4.8 | 1,104.0 | 1,152.5 | 48.5 | 4.4 | -4.6 | -0.4 |
| 14 | Services | 8,462.6 | 8,639.1 | 176.5 | 2.1 | 8,425.1 | 8,584.9 | 159.8 | 1.9 | -16.7 | -0.2 |
| 15 | Household consumption expenditures (for services) | 8,075.1 | 8,283.2 | 208.1 | 2.6 | 8,045.9 | 8,237.0 | 191.1 | 2.4 | -17.0 | -0.2 |
| 16 | Housing and utilities | 2,172.7 | 2,193.4 | 20.8 | 1.0 | 2,177.7 | 2,199.1 | 21.3 | 1.0 | 0.6 | 0.0 |
| 17 | Health care | 2,192.4 | 2,275.9 | 83.5 | 3.8 | 2,183.8 | 2,260.2 | 76.4 | 3.5 | -7.1 | -0.3 |
| 18 | Transportation services | 429.9 | 443.9 | 14.0 | 3.2 | 432.3 | 447.8 | 15.6 | 3.6 | 1.6 | 0.4 |
| 19 | Recreation services | 503.3 | 517.0 | 13.7 | 2.7 | 499.1 | 506.7 | 7.6 | 1.5 | -6.1 | -1.2 |
| 20 | Food services and accommodations | 849.4 | 865.9 | 16.5 | 1.9 | 835.7 | 847.0 | 11.3 | 1.3 | -5.3 | -0.6 |
| 21 | Financial services and insurance | 844.9 | 865.6 | 20.7 | 2.5 | 844.3 | 865.8 | 21.4 | 2.5 | 0.7 | 0.0 |
| 22 | Other services | 1,098.7 | 1,142.7 | 44.0 | 4.0 | 1,088.6 | 1,130.5 | 41.8 | 3.8 | -2.2 | -0.2 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 386.9 | 357.1 | -29.8 | -7.7 | 378.9 | 349.5 | -29.4 | -7.8 | 0.4 | -0.1 |
| 24 | Gross output of nonprofit institutions | 1,419.8 | 1,437.9 | 18.1 | 1.3 | 1,413.3 | 1,422.1 | 8.8 | 0.6 | -9.3 | -0.7 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 1,032.2 | 1,082.7 | 50.5 | 4.9 | 1,034.2 | 1,074.9 | 40.7 | 3.9 | -9.8 | -1.0 |
| 26 | Gross private domestic investment | 3,429.5 | 3,363.4 | -66.1 | -1.9 | 3,448.3 | 3,413.3 | -35.0 | -1.0 | 31.1 | 0.9 |
| 27 | Fixed investment | 3,323.0 | 3,325.9 | 2.9 | 0.1 | 3,338.7 | 3,387.2 | 48.5 | 1.5 | 45.6 | 1.4 |
| 28 | Nonresidential | 2,735.8 | 2,725.7 | -10.1 | -0.4 | 2,742.6 | 2,781.5 | 38.9 | 1.4 | 48.9 | 1.8 |
| 29 | Structures | 533.4 | 500.1 | -33.3 | -6.2 | 534.9 | 545.1 | 10.2 | 1.9 | 43.5 | 8.1 |

table continues on next page

Table A6. Revisions to Real GDP, Expanded Detail, Over the Period 2018Q4 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2018 Q4 | 2019 Q4 | Change for 2018Q4 – 2019Q4 | | 2018 Q4 | 2019 Q4 | Change for 2018Q4 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,279.2 | 1,255.6 | -23.6 | -1.8 | 1,274.8 | 1,258.0 | -16.8 | -1.3 | 6.8 | 0.5 |
| 31 | Information processing equipment | 504.2 | 516.5 | 12.3 | 2.4 | 483.9 | 492.9 | 9.0 | 1.9 | -3.3 | -0.5 |
| 32 | Computers and peripheral equipment | 122.7 | 132.4 | 9.6 | 7.9 | 123.8 | 134.4 | 10.6 | 8.6 | 1.0 | 0.7 |
| 33 | Other | 384.5 | 385.7 | 1.1 | 0.3 | 361.8 | 358.3 | -3.5 | -1.0 | -4.6 | -1.3 |
| 34 | Industrial equipment | 242.5 | 237.2 | -5.3 | -2.2 | 251.7 | 245.3 | -6.4 | -2.6 | -1.2 | -0.4 |
| 35 | Transportation equipment | 289.6 | 271.1 | -18.5 | -6.4 | 298.0 | 283.0 | -15.1 | -5.1 | 3.4 | 1.3 |
| 36 | Other equipment | 254.9 | 248.1 | -6.8 | -2.7 | 249.2 | 248.5 | -0.8 | -0.3 | 6.1 | 2.4 |
| 37 | Intellectual property products | 931.3 | 982.0 | 50.7 | 5.4 | 941.5 | 985.2 | 43.7 | 4.6 | -7.0 | -0.8 |
| 38 | Software | 428.0 | 470.3 | 42.3 | 9.9 | 432.6 | 461.8 | 29.2 | 6.8 | -13.0 | -3.1 |
| 39 | Research and development | 422.7 | 433.7 | 11.0 | 2.6 | 430.0 | 445.3 | 15.4 | 3.6 | 4.3 | 1.0 |
| 40 | Entertainment, literary, and artistic originals | 85.2 | 86.7 | 1.5 | 1.7 | 83.4 | 84.3 | 0.9 | 1.1 | -0.5 | -0.6 |
| 41 | Residential | 593.0 | 603.1 | 10.1 | 1.7 | 601.0 | 610.5 | 9.5 | 1.6 | -0.6 | -0.1 |
| 42 | Change in private inventories | 93.0 | 13.1 | -79.9 | --- | 92.3 | -1.1 | -93.3 | --- | -13.4 | --- |
| 43 | Farm | -13.7 | -7.7 | 6.0 | --- | -12.2 | -15.6 | -3.5 | --- | -9.5 | --- |
| 44 | Nonfarm | 103.0 | 19.0 | -84.0 | --- | 100.8 | 11.5 | -89.3 | --- | -5.3 | --- |
| 45 | Net exports of goods and services | -983.0 | -900.7 | 82.3 | --- | -937.3 | -861.5 | 75.8 | --- | -6.6 | --- |
| 46 | Exports | 2,528.5 | 2,536.4 | 7.8 | 0.3 | 2,548.8 | 2,557.8 | 9.1 | 0.4 | 1.2 | 0.1 |
| 47 | Goods | 1,782.5 | 1,782.3 | -0.2 | 0.0 | 1,787.9 | 1,786.8 | -1.1 | -0.1 | -0.9 | -0.1 |
| 48 | Services | 751.7 | 758.6 | 6.9 | 0.9 | 765.2 | 774.0 | 8.8 | 1.1 | 1.9 | 0.2 |
| 49 | Imports | 3,511.6 | 3,437.1 | -74.5 | -2.1 | 3,486.0 | 3,419.3 | -66.7 | -1.9 | 7.8 | 0.2 |
| 50 | Goods | 2,962.0 | 2,861.5 | -100.5 | -3.4 | 2,957.9 | 2,872.2 | -85.7 | -2.9 | 14.8 | 0.5 |
| 51 | Services | 552.0 | 570.4 | 18.5 | 3.3 | 533.8 | 546.5 | 12.7 | 2.4 | -5.8 | -0.9 |
| 52 | Government consumption expenditures and gross investment | 3,234.9 | 3,331.1 | 96.1 | 3.0 | 3,240.2 | 3,337.5 | 97.3 | 3.0 | 1.2 | 0.0 |
| 53 | Federal | 1,242.1 | 1,295.1 | 52.9 | 4.3 | 1,241.6 | 1,301.1 | 59.5 | 4.8 | 6.6 | 0.5 |
| 54 | National defense | 750.6 | 783.3 | 32.7 | 4.4 | 755.1 | 797.1 | 41.9 | 5.6 | 9.2 | 1.2 |
| 55 | Consumption expenditures | 595.7 | 618.7 | 23.0 | 3.9 | 595.1 | 623.0 | 27.8 | 4.7 | 4.8 | 0.8 |
| 56 | Gross investment | 155.1 | 165.0 | 9.9 | 6.4 | 160.4 | 174.8 | 14.4 | 9.0 | 4.5 | 2.6 |
| 57 | Nondefense | 491.3 | 511.5 | 20.2 | 4.1 | 486.4 | 504.1 | 17.8 | 3.7 | -2.5 | -0.4 |
| 58 | Consumption expenditures | 365.1 | 381.3 | 16.2 | 4.4 | 355.7 | 366.8 | 11.1 | 3.1 | -5.2 | -1.3 |
| 59 | Gross investment | 126.2 | 130.2 | 3.9 | 3.1 | 130.9 | 137.7 | 6.8 | 5.2 | 2.9 | 2.1 |
| 60 | State and local | 1,991.4 | 2,035.0 | 43.6 | 2.2 | 1,997.1 | 2,035.6 | 38.5 | 1.9 | -5.2 | -0.3 |
| 61 | Consumption expenditures | 1,643.1 | 1,662.8 | 19.7 | 1.2 | 1,643.1 | 1,659.2 | 16.1 | 1.0 | -3.6 | -0.2 |
| 62 | Gross investment | 348.2 | 372.1 | 23.9 | 6.9 | 354.0 | 376.4 | 22.4 | 6.3 | -1.5 | -0.6 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 18,739.3 | 19,134.5 | 395.2 | 2.1 | 18,876.3 | 19,230.7 | 354.5 | 1.9 | -40.7 | -0.2 |
| 64 | Average of GDP and GDI ² | 18,761.4 | 19,178.2 | 416.8 | 2.2 | 18,845.1 | 19,242.4 | 397.3 | 2.1 | -19.5 | -0.1 |
| 65 | Final sales of domestic product | 18,678.3 | 19,183.2 | 504.9 | 2.7 | 18,705.9 | 19,226.6 | 520.7 | 2.8 | 15.8 | 0.1 |
| 66 | Gross domestic purchases | 19,724.2 | 20,103.1 | 378.9 | 1.9 | 19,715.2 | 20,099.6 | 384.5 | 1.9 | 5.5 | 0.0 |
| 67 | Gross national product | 19,028.0 | 19,515.5 | 487.4 | 2.6 | 19,065.5 | 19,509.6 | 444.1 | 2.3 | -43.4 | -0.3 |
| 68 | Disposable personal income ³ | 14,715.2 | 15,090.9 | 375.7 | 2.6 | 14,732.3 | 14,964.5 | 232.2 | 1.6 | -143.4 | -1.0 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A7. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2014 Q4 | 2019 Q4 | Change for 2014Q4 – 2019Q4 | | 2014 Q4 | 2019 Q4 | Change for 2014Q4 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 17,143.0 | 19,222.0 | 2,078.9 | 2.3 | 17,143.0 | 19,254.0 | 2,110.9 | 2.3 | 32.0 | 0.0 |
| 2 | Personal consumption expenditures | 11,695.0 | 13,413.8 | 1,718.8 | 2.8 | 11,695.0 | 13,353.7 | 1,658.7 | 2.7 | -60.1 | -0.1 |
| 3 | Goods | 3,984.4 | 4,814.7 | 830.3 | 3.9 | 3,984.4 | 4,811.8 | 827.5 | 3.8 | -2.9 | -0.1 |
| 4 | Durable goods | 1,343.3 | 1,806.1 | 462.8 | 6.1 | 1,343.3 | 1,811.7 | 468.4 | 6.2 | 5.6 | 0.1 |
| 5 | Motor vehicles and parts | 452.1 | 554.8 | 102.7 | 4.2 | 452.1 | 539.2 | 87.1 | 3.6 | -15.6 | -0.6 |
| 6 | Furnishings and durable household equipment | 302.0 | 411.6 | 109.7 | 6.4 | 302.0 | 417.3 | 115.3 | 6.7 | 5.7 | 0.3 |
| 7 | Recreational goods and vehicles | 376.3 | 588.3 | 212.0 | 9.3 | 376.3 | 613.0 | 236.7 | 10.3 | 24.7 | 1.0 |
| 8 | Other durable goods | 213.5 | 267.2 | 53.7 | 4.6 | 213.5 | 263.7 | 50.2 | 4.3 | -3.5 | -0.3 |
| 9 | Nondurable goods | 2,643.6 | 3,025.7 | 382.2 | 2.7 | 2,643.6 | 3,018.2 | 374.7 | 2.7 | -7.5 | 0.0 |
| 10 | Food and beverages purchased for off-premises consumption | 876.3 | 995.8 | 119.5 | 2.6 | 876.3 | 987.1 | 110.7 | 2.4 | -8.8 | -0.2 |
| 11 | Clothing and footwear | 363.7 | 412.8 | 49.1 | 2.6 | 363.7 | 418.0 | 54.3 | 2.8 | 5.2 | 0.2 |
| 12 | Gasoline and other energy goods | 437.2 | 446.5 | 9.3 | 0.4 | 437.2 | 441.6 | 4.4 | 0.2 | -4.9 | -0.2 |
| 13 | Other nondurable goods | 966.2 | 1,152.3 | 186.1 | 3.6 | 966.2 | 1,152.5 | 186.4 | 3.6 | 0.2 | 0.0 |
| 14 | Services | 7,713.9 | 8,639.1 | 925.2 | 2.3 | 7,713.9 | 8,584.9 | 870.9 | 2.2 | -54.3 | -0.1 |
| 15 | Household consumption expenditures (for services) | 7,372.2 | 8,283.2 | 911.1 | 2.4 | 7,372.2 | 8,237.0 | 864.8 | 2.2 | -46.2 | -0.2 |
| 16 | Housing and utilities | 2,057.6 | 2,193.4 | 135.8 | 1.3 | 2,057.6 | 2,199.1 | 141.4 | 1.3 | 5.6 | 0.0 |
| 17 | Health care | 1,945.2 | 2,275.9 | 330.7 | 3.2 | 1,945.2 | 2,260.2 | 315.0 | 3.0 | -15.7 | -0.2 |
| 18 | Transportation services | 378.5 | 443.9 | 65.4 | 3.2 | 378.5 | 447.8 | 69.3 | 3.4 | 3.9 | 0.2 |
| 19 | Recreation services | 458.1 | 517.0 | 58.9 | 2.4 | 458.1 | 506.7 | 48.6 | 2.0 | -10.3 | -0.4 |
| 20 | Food services and accommodations | 756.0 | 865.9 | 109.9 | 2.8 | 756.0 | 847.0 | 91.0 | 2.3 | -18.9 | -0.5 |
| 21 | Financial services and insurance | 825.4 | 865.6 | 40.2 | 1.0 | 825.4 | 865.8 | 40.3 | 1.0 | 0.1 | 0.0 |
| 22 | Other services | 953.8 | 1,142.7 | 188.9 | 3.7 | 953.8 | 1,130.5 | 176.7 | 3.5 | -12.2 | -0.2 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 341.9 | 357.1 | 15.2 | 0.9 | 341.9 | 349.5 | 7.6 | 0.4 | -7.6 | -0.5 |
| 24 | Gross output of nonprofit institutions | 1,290.3 | 1,437.9 | 147.7 | 2.2 | 1,290.3 | 1,422.1 | 131.8 | 2.0 | -15.8 | -0.2 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 948.7 | 1,082.7 | 134.0 | 2.7 | 948.7 | 1,074.9 | 126.3 | 2.5 | -7.7 | -0.2 |
| 26 | Gross private domestic investment | 3,021.9 | 3,363.4 | 341.5 | 2.2 | 3,021.9 | 3,413.3 | 391.5 | 2.5 | 49.9 | 0.3 |
| 27 | Fixed investment | 2,941.2 | 3,325.9 | 384.7 | 2.5 | 2,941.2 | 3,387.2 | 446.0 | 2.9 | 61.3 | 0.4 |
| 28 | Nonresidential | 2,415.5 | 2,725.7 | 310.3 | 2.4 | 2,415.5 | 2,781.5 | 366.0 | 2.9 | 55.7 | 0.5 |
| 29 | Structures | 551.0 | 500.1 | -50.8 | -1.9 | 551.0 | 545.1 | -5.8 | -0.2 | 45.0 | 1.7 |

table continues on next page

Table A7. Revisions to Real GDP, Expanded Detail, Over the Period 2014Q4 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2014 Q4 | 2019 Q4 | Change for 2014Q4 – 2019Q4 | | 2014 Q4 | 2019 Q4 | Change for 2014Q4 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 1,116.9 | 1,255.6 | 138.7 | 2.4 | 1,116.9 | 1,258.0 | 141.1 | 2.4 | 2.4 | 0.0 |
| 31 | Information processing equipment | 379.3 | 516.5 | 137.2 | 6.4 | 379.3 | 492.9 | 113.6 | 5.4 | -23.6 | -1.0 |
| 32 | Computers and peripheral equipment | 104.7 | 132.4 | 27.7 | 4.8 | 104.7 | 134.4 | 29.7 | 5.1 | 2.0 | 0.3 |
| 33 | Other | 275.1 | 385.7 | 110.6 | 7.0 | 275.1 | 358.3 | 83.2 | 5.4 | -27.4 | -1.6 |
| 34 | Industrial equipment | 215.3 | 237.2 | 21.9 | 2.0 | 215.3 | 245.3 | 30.0 | 2.6 | 8.1 | 0.6 |
| 35 | Transportation equipment | 271.6 | 271.1 | -0.4 | 0.0 | 271.6 | 283.0 | 11.4 | 0.8 | 11.9 | 0.8 |
| 36 | Other equipment | 250.5 | 248.1 | -2.4 | -0.2 | 250.5 | 248.5 | -2.0 | -0.2 | 0.4 | 0.0 |
| 37 | Intellectual property products | 746.6 | 982.0 | 235.4 | 5.6 | 746.6 | 985.2 | 238.6 | 5.7 | 3.1 | 0.1 |
| 38 | Software | 311.9 | 470.3 | 158.4 | 8.6 | 311.9 | 461.8 | 149.9 | 8.2 | -8.5 | -0.4 |
| 39 | Research and development | 360.2 | 433.7 | 73.5 | 3.8 | 360.2 | 445.3 | 85.1 | 4.3 | 11.6 | 0.5 |
| 40 | Entertainment, literary, and artistic originals | 74.4 | 86.7 | 12.3 | 3.1 | 74.4 | 84.3 | 9.9 | 2.5 | -2.4 | -0.6 |
| 41 | Residential | 525.2 | 603.1 | 77.9 | 2.8 | 525.2 | 610.5 | 85.4 | 3.1 | 7.4 | 0.3 |
| 42 | Change in private inventories | 82.0 | 13.1 | -68.9 | --- | 82.0 | -1.1 | -83.0 | --- | -14.1 | --- |
| 43 | Farm | -4.4 | -7.7 | -3.3 | --- | -4.4 | -15.6 | -11.2 | --- | -7.9 | --- |
| 44 | Nonfarm | 87.0 | 19.0 | -68.0 | --- | 87.0 | 11.5 | -75.4 | --- | -7.5 | --- |
| 45 | Net exports of goods and services | -617.9 | -900.7 | -282.8 | --- | -617.9 | -861.5 | -243.6 | --- | 39.2 | --- |
| 46 | Exports | 2,400.3 | 2,536.4 | 136.1 | 1.1 | 2,400.3 | 2,557.8 | 157.6 | 1.3 | 21.5 | 0.2 |
| 47 | Goods | 1,672.2 | 1,782.3 | 110.1 | 1.3 | 1,672.2 | 1,786.8 | 114.6 | 1.3 | 4.5 | 0.0 |
| 48 | Services | 728.7 | 758.6 | 29.9 | 0.8 | 728.7 | 774.0 | 45.3 | 1.2 | 15.4 | 0.4 |
| 49 | Imports | 3,018.2 | 3,437.1 | 418.9 | 2.6 | 3,018.2 | 3,419.3 | 401.1 | 2.5 | -17.7 | -0.1 |
| 50 | Goods | 2,539.5 | 2,861.5 | 322.0 | 2.4 | 2,539.5 | 2,872.2 | 332.7 | 2.5 | 10.7 | 0.1 |
| 51 | Services | 479.8 | 570.4 | 90.7 | 3.5 | 479.8 | 546.5 | 66.7 | 2.6 | -24.0 | -0.9 |
| 52 | Government consumption expenditures and gross investment | 3,043.4 | 3,331.1 | 287.6 | 1.8 | 3,043.4 | 3,337.5 | 294.0 | 1.9 | 6.4 | 0.1 |
| 53 | Federal | 1,175.5 | 1,295.1 | 119.6 | 2.0 | 1,175.5 | 1,301.1 | 125.6 | 2.1 | 6.1 | 0.1 |
| 54 | National defense | 716.6 | 783.3 | 66.7 | 1.8 | 716.6 | 797.1 | 80.5 | 2.2 | 13.8 | 0.4 |
| 55 | Consumption expenditures | 574.2 | 618.7 | 44.5 | 1.5 | 574.2 | 623.0 | 48.8 | 1.6 | 4.2 | 0.1 |
| 56 | Gross investment | 142.4 | 165.0 | 22.6 | 3.0 | 142.4 | 174.8 | 32.4 | 4.2 | 9.8 | 1.2 |
| 57 | Nondefense | 458.6 | 511.5 | 52.9 | 2.2 | 458.6 | 504.1 | 45.5 | 1.9 | -7.4 | -0.3 |
| 58 | Consumption expenditures | 340.7 | 381.3 | 40.6 | 2.3 | 340.7 | 366.8 | 26.1 | 1.5 | -14.5 | -0.8 |
| 59 | Gross investment | 117.9 | 130.2 | 12.3 | 2.0 | 117.9 | 137.7 | 19.8 | 3.1 | 7.5 | 1.1 |
| 60 | State and local | 1,866.6 | 2,035.0 | 168.4 | 1.7 | 1,866.6 | 2,035.6 | 169.0 | 1.7 | 0.6 | 0.0 |
| 61 | Consumption expenditures | 1,535.2 | 1,662.8 | 127.7 | 1.6 | 1,535.2 | 1,659.2 | 124.0 | 1.6 | -3.6 | 0.0 |
| 62 | Gross investment | 331.4 | 372.1 | 40.7 | 2.3 | 331.4 | 376.4 | 45.0 | 2.6 | 4.3 | 0.3 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 17,470.9 | 19,134.5 | 1,663.6 | 1.8 | 17,467.3 | 19,230.7 | 1,763.4 | 1.9 | 99.8 | 0.1 |
| 64 | Average of GDP and GDI ² | 17,307.0 | 19,178.2 | 1,871.3 | 2.1 | 17,305.2 | 19,242.4 | 1,937.2 | 2.1 | 65.9 | 0.0 |
| 65 | Final sales of domestic product | 17,062.8 | 19,183.2 | 2,120.4 | 2.4 | 17,062.8 | 19,226.6 | 2,163.8 | 2.4 | 43.3 | 0.0 |
| 66 | Gross domestic purchases | 17,757.1 | 20,103.1 | 2,346.0 | 2.5 | 17,757.1 | 20,099.6 | 2,342.5 | 2.5 | -3.5 | 0.0 |
| 67 | Gross national product | 17,363.8 | 19,515.5 | 2,151.7 | 2.4 | 17,363.8 | 19,509.6 | 2,145.8 | 2.4 | -5.9 | 0.0 |
| 68 | Disposable personal income ³ | 13,089.7 | 15,090.9 | 2,001.2 | 2.9 | 13,089.1 | 14,964.5 | 1,875.5 | 2.7 | -125.7 | -0.2 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table A8. Revisions to Real GDP, Expanded Detail, Over the Period 2009Q2 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|------|--|---|-----------------|----------------------------|-----------------------|--------------------------------|-----------------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2009 Q2 | 2019 Q4 | Change for 2009Q2 – 2019Q4 | | 2009 Q2 | 2019 Q4 | Change for 2009Q2 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 1 | Gross domestic product | 15,134.1 | 19,222.0 | 4,087.9 | 2.3 | 15,134.1 | 19,254.0 | 4,119.8 | 2.3 | 32.0 | 0.0 |
| 2 | Personal consumption expenditures | 10,417.3 | 13,413.8 | 2,996.5 | 2.4 | 10,417.3 | 13,353.7 | 2,936.4 | 2.4 | -60.1 | 0.0 |
| 3 | Goods | 3,359.6 | 4,814.7 | 1,455.0 | 3.5 | 3,359.6 | 4,811.8 | 1,452.2 | 3.5 | -2.9 | 0.0 |
| 4 | Durable goods | 954.0 | 1,806.1 | 852.1 | 6.3 | 954.0 | 1,811.7 | 857.7 | 6.3 | 5.6 | 0.0 |
| 5 | Motor vehicles and parts | 337.0 | 554.8 | 217.9 | 4.9 | 337.0 | 539.2 | 202.3 | 4.6 | -15.6 | -0.3 |
| 6 | Furnishings and durable household equipment | 222.2 | 411.6 | 189.5 | 6.0 | 222.2 | 417.3 | 195.1 | 6.2 | 5.7 | 0.2 |
| 7 | Recreational goods and vehicles | 238.2 | 588.3 | 350.1 | 9.0 | 238.2 | 613.0 | 374.8 | 9.4 | 24.7 | 0.4 |
| 8 | Other durable goods | 159.0 | 267.2 | 108.2 | 5.1 | 159.0 | 263.7 | 104.7 | 4.9 | -3.5 | -0.2 |
| 9 | Nondurable goods | 2,413.7 | 3,025.7 | 612.0 | 2.2 | 2,413.7 | 3,018.2 | 604.5 | 2.2 | -7.5 | 0.0 |
| 10 | Food and beverages purchased for off-premises consumption | 822.9 | 995.8 | 172.9 | 1.8 | 822.9 | 987.1 | 164.2 | 1.7 | -8.8 | -0.1 |
| 11 | Clothing and footwear | 314.8 | 412.8 | 98.0 | 2.6 | 314.8 | 418.0 | 103.2 | 2.7 | 5.2 | 0.1 |
| 12 | Gasoline and other energy goods | 440.0 | 446.5 | 6.5 | 0.1 | 440.0 | 441.6 | 1.6 | 0.0 | -4.9 | -0.1 |
| 13 | Other nondurable goods | 840.4 | 1,152.3 | 312.0 | 3.1 | 840.4 | 1,152.5 | 312.2 | 3.1 | 0.2 | 0.0 |
| 14 | Services | 7,057.5 | 8,639.1 | 1,581.6 | 1.9 | 7,057.5 | 8,584.9 | 1,527.3 | 1.9 | -54.3 | 0.0 |
| 15 | Household consumption expenditures (for services) | 6,775.2 | 8,283.2 | 1,508.0 | 1.9 | 6,775.2 | 8,237.0 | 1,461.8 | 1.9 | -46.2 | 0.0 |
| 16 | Housing and utilities | 1,938.4 | 2,193.4 | 255.0 | 1.2 | 1,938.4 | 2,199.1 | 260.6 | 1.2 | 5.6 | 0.0 |
| 17 | Health care | 1,736.6 | 2,275.9 | 539.2 | 2.6 | 1,736.6 | 2,260.2 | 523.5 | 2.5 | -15.7 | -0.1 |
| 18 | Transportation services | 318.1 | 443.9 | 125.8 | 3.2 | 318.1 | 447.8 | 129.7 | 3.3 | 3.9 | 0.1 |
| 19 | Recreation services | 407.5 | 517.0 | 109.5 | 2.3 | 407.5 | 506.7 | 99.2 | 2.1 | -10.3 | -0.2 |
| 20 | Food services and accommodations | 654.4 | 865.9 | 211.5 | 2.7 | 654.4 | 847.0 | 192.6 | 2.5 | -18.9 | -0.2 |
| 21 | Financial services and insurance | 816.5 | 865.6 | 49.1 | 0.6 | 816.5 | 865.8 | 49.3 | 0.6 | 0.1 | 0.0 |
| 22 | Other services | 904.4 | 1,142.7 | 238.2 | 2.3 | 904.4 | 1,130.5 | 226.1 | 2.1 | -12.2 | -0.2 |
| 23 | Final consumption expenditures of nonprofit institutions serving households (NPISHs) | 283.3 | 357.1 | 73.8 | 2.2 | 283.3 | 349.5 | 66.2 | 2.0 | -7.6 | -0.2 |
| 24 | Gross output of nonprofit institutions | 1,146.6 | 1,437.9 | 291.3 | 2.2 | 1,146.6 | 1,422.1 | 275.5 | 2.1 | -15.8 | -0.1 |
| 25 | Less: Receipts from sales of goods and services by nonprofit institutions | 864.2 | 1,082.7 | 218.4 | 2.2 | 864.2 | 1,074.9 | 210.7 | 2.1 | -7.7 | -0.1 |
| 26 | Gross private domestic investment | 1,872.3 | 3,363.4 | 1,491.1 | 5.7 | 1,872.3 | 3,413.3 | 1,541.0 | 5.9 | 49.9 | 0.2 |
| 27 | Fixed investment | 2,073.9 | 3,325.9 | 1,252.0 | 4.6 | 2,073.9 | 3,387.2 | 1,313.3 | 4.8 | 61.3 | 0.2 |
| 28 | Nonresidential | 1,693.2 | 2,725.7 | 1,032.5 | 4.6 | 1,693.2 | 2,781.5 | 1,088.3 | 4.8 | 55.7 | 0.2 |
| 29 | Structures | 509.0 | 500.1 | -8.8 | -0.2 | 509.0 | 545.1 | 36.2 | 0.7 | 45.0 | 0.9 |

table continues on next page

Table A8. Revisions to Real GDP, Expanded Detail, Over the Period 2009Q2 – 2019Q4
 [Billions of chained dollars]

| Line | Real GDP and its major components | Previously published chained (2012) dollars | | | | Revised chained (2012) dollars | | | | Revision in change | |
|----------------|--|---|----------|----------------------------|-----------------------|--------------------------------|----------|----------------------------|-----------------------|--------------------|------------------------------------|
| | | 2009 Q2 | 2019 Q4 | Change for 2009Q2 – 2019Q4 | | 2009 Q2 | 2019 Q4 | Change for 2009Q2 – 2019Q4 | | Dollar | Percent change (percentage points) |
| | | | | Dollar | Percent (annual rate) | | | Dollar | Percent (annual rate) | | |
| 30 | Equipment | 627.8 | 1,255.6 | 627.8 | 6.8 | 627.8 | 1,258.0 | 630.2 | 6.8 | 2.4 | 0.0 |
| 31 | Information processing equipment | 238.2 | 516.5 | 278.2 | 7.6 | 238.2 | 492.9 | 254.7 | 7.2 | -23.6 | -0.4 |
| 32 | Computers and peripheral equipment | 78.5 | 132.4 | 53.9 | 5.1 | 78.5 | 134.4 | 55.9 | 5.3 | 2.0 | 0.2 |
| 33 | Other | 159.8 | 385.7 | 225.9 | 8.8 | 159.8 | 358.3 | 198.5 | 8.0 | -27.4 | -0.8 |
| 34 | Industrial equipment | 163.4 | 237.2 | 73.8 | 3.6 | 163.4 | 245.3 | 81.9 | 3.9 | 8.1 | 0.3 |
| 35 | Transportation equipment | 63.3 | 271.1 | 207.8 | 14.9 | 63.3 | 283.0 | 219.7 | 15.3 | 11.9 | 0.4 |
| 36 | Other equipment | 161.9 | 248.1 | 86.2 | 4.2 | 161.9 | 248.5 | 86.6 | 4.2 | 0.4 | 0.0 |
| 37 | Intellectual property products | 568.6 | 982.0 | 413.4 | 5.3 | 568.6 | 985.2 | 416.5 | 5.4 | 3.1 | 0.1 |
| 38 | Software | 209.5 | 470.3 | 260.8 | 8.0 | 209.5 | 461.8 | 252.3 | 7.8 | -8.5 | -0.2 |
| 39 | Research and development | 297.1 | 433.7 | 136.7 | 3.7 | 297.1 | 445.3 | 148.2 | 3.9 | 11.6 | 0.2 |
| 40 | Entertainment, literary, and artistic originals | 63.5 | 86.7 | 23.2 | 3.0 | 63.5 | 84.3 | 20.8 | 2.7 | -2.4 | -0.3 |
| 41 | Residential | 380.4 | 603.1 | 222.7 | 4.5 | 380.4 | 610.5 | 230.1 | 4.6 | 7.4 | 0.1 |
| 42 | Change in private inventories | -228.3 | 13.1 | 241.4 | --- | -228.3 | -1.1 | 227.3 | --- | -14.1 | --- |
| 43 | Farm | -9.5 | -7.7 | 1.8 | --- | -9.5 | -15.6 | -6.1 | --- | -7.9 | --- |
| 44 | Nonfarm | -215.3 | 19.0 | 234.3 | --- | -215.3 | 11.5 | 226.8 | --- | -7.5 | --- |
| 45 | Net exports of goods and services | -445.2 | -900.7 | -455.4 | --- | -445.2 | -861.5 | -416.2 | --- | 39.2 | --- |
| 46 | Exports | 1,707.9 | 2,536.4 | 828.5 | 3.8 | 1,707.9 | 2,557.8 | 850.0 | 3.9 | 21.5 | 0.1 |
| 47 | Goods | 1,140.2 | 1,782.3 | 642.1 | 4.3 | 1,140.2 | 1,786.8 | 646.6 | 4.4 | 4.5 | 0.1 |
| 48 | Services | 566.9 | 758.6 | 191.7 | 2.8 | 566.9 | 774.0 | 207.1 | 3.0 | 15.4 | 0.2 |
| 49 | Imports | 2,153.1 | 3,437.1 | 1,283.9 | 4.6 | 2,153.1 | 3,419.3 | 1,266.2 | 4.5 | -17.7 | -0.1 |
| 50 | Goods | 1,738.0 | 2,861.5 | 1,123.6 | 4.9 | 1,738.0 | 2,872.2 | 1,134.3 | 4.9 | 10.7 | 0.0 |
| 51 | Services | 411.4 | 570.4 | 159.1 | 3.2 | 411.4 | 546.5 | 135.1 | 2.7 | -24.0 | -0.5 |
| 52 | Government consumption expenditures and gross investment | 3,313.2 | 3,331.1 | 17.9 | 0.1 | 3,313.2 | 3,337.5 | 24.3 | 0.1 | 6.4 | 0.0 |
| 53 | Federal | 1,289.7 | 1,295.1 | 5.4 | 0.0 | 1,289.7 | 1,301.1 | 11.5 | 0.1 | 6.1 | 0.1 |
| 54 | National defense | 836.4 | 783.3 | -53.1 | -0.6 | 836.4 | 797.1 | -39.3 | -0.5 | 13.8 | 0.1 |
| 55 | Consumption expenditures | 654.5 | 618.7 | -35.8 | -0.5 | 654.5 | 623.0 | -31.6 | -0.5 | 4.2 | 0.0 |
| 56 | Gross investment | 181.7 | 165.0 | -16.7 | -0.9 | 181.7 | 174.8 | -6.9 | -0.4 | 9.8 | 0.5 |
| 57 | Nondefense | 453.3 | 511.5 | 58.2 | 1.2 | 453.3 | 504.1 | 50.8 | 1.0 | -7.4 | -0.2 |
| 58 | Consumption expenditures | 341.4 | 381.3 | 39.9 | 1.1 | 341.4 | 366.8 | 25.4 | 0.7 | -14.5 | -0.4 |
| 59 | Gross investment | 112.0 | 130.2 | 18.1 | 1.4 | 112.0 | 137.7 | 25.7 | 2.0 | 7.5 | 0.6 |
| 60 | State and local | 2,024.9 | 2,035.0 | 10.1 | 0.0 | 2,024.9 | 2,035.6 | 10.7 | 0.1 | 0.6 | 0.1 |
| 61 | Consumption expenditures | 1,637.6 | 1,662.8 | 25.2 | 0.1 | 1,637.6 | 1,659.2 | 21.6 | 0.1 | -3.6 | 0.0 |
| 62 | Gross investment | 387.3 | 372.1 | -15.2 | -0.4 | 387.3 | 376.4 | -10.9 | -0.3 | 4.3 | 0.1 |
| Addenda | | | | | | | | | | | |
| 63 | Gross domestic income ¹ | 14,944.2 | 19,134.5 | 4,190.3 | 2.4 | 14,946.5 | 19,230.7 | 4,284.3 | 2.4 | 93.9 | 0.0 |
| 64 | Average of GDP and GDI ² | 15,039.2 | 19,178.2 | 4,139.1 | 2.3 | 15,040.3 | 19,242.4 | 4,202.1 | 2.4 | 63.0 | 0.1 |
| 65 | Final sales of domestic product | 15,343.9 | 19,183.2 | 3,839.4 | 2.1 | 15,343.9 | 19,226.6 | 3,882.7 | 2.2 | 43.3 | 0.1 |
| 66 | Gross domestic purchases | 15,588.8 | 20,103.1 | 4,514.3 | 2.5 | 15,588.8 | 20,099.6 | 4,510.9 | 2.4 | -3.5 | -0.1 |
| 67 | Gross national product | 15,257.3 | 19,515.5 | 4,258.2 | 2.4 | 15,257.3 | 19,509.6 | 4,252.3 | 2.4 | -5.9 | 0.0 |
| 68 | Disposable personal income ³ | 11,689.8 | 15,090.9 | 3,401.1 | 2.5 | 11,689.5 | 14,964.5 | 3,275.1 | 2.4 | -126.0 | -0.1 |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. The arithmetic average of gross domestic product and of gross domestic income, deflated by the implicit price deflator for GDP.
3. Disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table B1. Revisions to the Chain-Type Price Indexes Over the Period 2014–2019

| Line | Chain-type price indexes | Index numbers (2012=100) | | | Revision in percent change (percentage points) |
|----------------|---|--------------------------|----------------|--|--|
| | | 2014 | 2019 | Percent change for 2014 – 2019 (annual rate) | |
| 1 | Gross domestic product | 103.647 | 112.318 | 1.6 | 0.0 |
| 2 | Less: Exports of goods and services | 100.272 | 98.751 | -0.3 | 0.0 |
| 3 | Plus: Imports of goods and services | 97.854 | 89.986 | -1.7 | 0.0 |
| 4 | Equals: Gross domestic purchases | 103.138 | 110.329 | 1.4 | 0.0 |
| 5 | Personal consumption expenditures | 102.830 | 109.851 | 1.3 | 0.0 |
| 6 | Goods | 98.920 | 94.785 | -0.9 | 0.0 |
| 7 | Durable goods | 95.429 | 86.463 | -2.0 | 0.0 |
| 8 | Nondurable goods | 100.599 | 99.212 | -0.3 | 0.0 |
| 9 | Services | 104.804 | 117.744 | 2.4 | 0.1 |
| 10 | Gross private domestic investment | 102.922 | 108.998 | 1.2 | 0.0 |
| 11 | Fixed investment | 103.172 | 109.799 | 1.3 | 0.0 |
| 12 | Nonresidential | 101.469 | 104.256 | 0.5 | -0.1 |
| 13 | Structures | 107.198 | 118.709 | 2.1 | -0.4 |
| 14 | Equipment | 99.169 | 97.888 | -0.3 | 0.0 |
| 15 | Intellectual property products | 100.791 | 103.683 | 0.6 | -0.1 |
| 16 | Residential | 111.118 | 134.182 | 3.8 | -0.1 |
| 17 | Change in private inventories | --- | --- | --- | --- |
| 18 | Government consumption expenditures and gross investment | 104.435 | 113.439 | 1.7 | 0.0 |
| 19 | Federal | 102.632 | 111.110 | 1.6 | -0.1 |
| 20 | National defense | 102.056 | 109.256 | 1.4 | 0.0 |
| 21 | Nondefense | 103.593 | 114.014 | 1.9 | -0.2 |
| 22 | State and local | 105.645 | 114.969 | 1.7 | 0.0 |
| Addenda | | | | | |
| 23 | Gross domestic purchases excluding food and energy | 103.373 | 111.746 | 1.6 | 0.0 |
| 24 | Gross national product | 103.635 | 112.279 | 1.6 | 0.0 |
| 25 | PCE excluding food and energy | 103.122 | 111.875 | 1.6 | 0.0 |
| 26 | Market-based PCE | 102.079 | 107.487 | 1.0 | 0.0 |
| 27 | Market-based PCE excluding food and energy | 102.284 | 109.409 | 1.4 | 0.0 |

Table B2. Revisions to the Chain-Type Price Indexes Over the Period 2014 Q4–2019 Q4

| Line | Chain-type price indexes | Index numbers (2012=100) | | | Revision in percent change (percentage points) |
|----------------|---|--------------------------|----------------|--|--|
| | | 2014Q4 | 2019Q4 | Percent change for 2014 Q4 – 2019 Q4 (annual rate) | |
| 1 | Gross domestic product | 104.078 | 112.989 | 1.7 | 0.0 |
| 2 | Less: Exports of goods and services | 98.812 | 98.350 | -0.1 | 0.0 |
| 3 | Plus: Imports of goods and services | 95.942 | 89.426 | -1.4 | 0.0 |
| 4 | Equals: Gross domestic purchases | 103.431 | 110.925 | 1.4 | 0.0 |
| 5 | Personal consumption expenditures | 102.992 | 110.529 | 1.4 | 0.0 |
| 6 | Goods | 97.913 | 94.817 | -0.6 | 0.1 |
| 7 | Durable goods | 94.510 | 85.774 | -1.9 | 0.0 |
| 8 | Nondurable goods | 99.548 | 99.673 | 0.0 | 0.0 |
| 9 | Services | 105.570 | 118.781 | 2.4 | 0.1 |
| 10 | Gross private domestic investment | 103.617 | 109.287 | 1.1 | -0.1 |
| 11 | Fixed investment | 103.764 | 110.099 | 1.2 | -0.1 |
| 12 | Nonresidential | 101.930 | 104.342 | 0.5 | -0.1 |
| 13 | Structures | 109.460 | 119.668 | 1.8 | -0.4 |
| 14 | Equipment | 99.148 | 97.722 | -0.3 | 0.0 |
| 15 | Intellectual property products | 100.667 | 103.606 | 0.6 | -0.2 |
| 16 | Residential | 112.320 | 135.468 | 3.8 | 0.0 |
| 17 | Change in private inventories | --- | --- | --- | --- |
| 18 | Government consumption expenditures and gross investment | 104.829 | 114.022 | 1.7 | -0.1 |
| 19 | Federal | 103.085 | 111.281 | 1.5 | -0.2 |
| 20 | National defense | 102.355 | 109.741 | 1.4 | -0.1 |
| 21 | Nondefense | 104.289 | 113.691 | 1.7 | -0.3 |
| 22 | State and local | 106.003 | 115.811 | 1.8 | 0.0 |
| Addenda | | | | | |
| 23 | Gross domestic purchases excluding food and energy | 103.896 | 112.342 | 1.6 | 0.0 |
| 24 | Gross national product | 104.058 | 112.950 | 1.7 | 0.0 |
| 25 | PCE excluding food and energy | 103.646 | 112.568 | 1.7 | 0.1 |
| 26 | Market-based PCE | 102.086 | 108.070 | 1.1 | 0.0 |
| 27 | Market-based PCE excluding food and energy | 102.681 | 109.993 | 1.4 | 0.0 |

Table C. Changes from Preceding Period in Real Gross Domestic Product and Real Gross Domestic Income: Annually, 2014–2019, and Quarterly, 2014 Q4–2019 Q4

| Year | Chained (2012) dollars | | | Percent change | | | Difference GDP–GDI |
|------|------------------------|------------------|----------|----------------|-----|---------|-----------------------|
| | GDP | GDI ¹ | Average | GDP | GDI | Average | |
| 2014 | 16,912.0 | 17,188.6 | 17,050.3 | 2.5 | 3.2 | 2.9 | –0.7 |
| 2015 | 17,432.2 | 17,659.0 | 17,545.6 | 3.1 | 2.7 | 2.9 | 0.4 |
| 2016 | 17,730.5 | 17,817.7 | 17,774.1 | 1.7 | 0.9 | 1.3 | 0.8 |
| 2017 | 18,144.1 | 18,266.1 | 18,205.1 | 2.3 | 2.5 | 2.4 | –0.2 |
| 2018 | 18,687.8 | 18,740.4 | 18,714.1 | 3.0 | 2.6 | 2.8 | 0.4 |
| 2019 | 19,091.7 | 19,080.2 | 19,085.9 | 2.2 | 1.8 | 2.0 | 0.4 |

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

| Quarter | Chained (2012) dollars | | | Percent change | | | Difference GDP–GDI |
|---------|------------------------|------------------|----------|----------------|------|---------|-----------------------|
| | GDP | GDI ¹ | Average | GDP | GDI | Average | |
| 2014Q4 | 17,143.0 | 17,467.3 | 17,305.2 | 2.3 | 3.4 | 2.8 | –1.1 |
| 2015Q1 | 17,305.8 | 17,590.1 | 17,447.9 | 3.8 | 2.8 | 3.3 | 1.0 |
| 2015Q2 | 17,422.8 | 17,653.5 | 17,538.2 | 2.7 | 1.5 | 2.1 | 1.2 |
| 2015Q3 | 17,486.0 | 17,688.5 | 17,587.2 | 1.5 | 0.8 | 1.1 | 0.7 |
| 2015Q4 | 17,514.1 | 17,704.5 | 17,609.3 | 0.6 | 0.4 | 0.5 | 0.2 |
| 2016Q1 | 17,613.3 | 17,801.1 | 17,707.2 | 2.3 | 2.2 | 2.2 | 0.1 |
| 2016Q2 | 17,668.2 | 17,726.9 | 17,697.5 | 1.3 | –1.7 | –0.2 | 3.0 |
| 2016Q3 | 17,764.4 | 17,826.3 | 17,795.4 | 2.2 | 2.3 | 2.2 | –0.1 |
| 2016Q4 | 17,876.2 | 17,917.6 | 17,896.9 | 2.5 | 2.1 | 2.3 | 0.4 |
| 2017Q1 | 17,977.3 | 18,084.6 | 18,030.9 | 2.3 | 3.8 | 3.0 | –1.5 |
| 2017Q2 | 18,054.1 | 18,233.8 | 18,143.9 | 1.7 | 3.3 | 2.5 | –1.6 |
| 2017Q3 | 18,185.6 | 18,309.1 | 18,247.4 | 2.9 | 1.7 | 2.3 | 1.2 |
| 2017Q4 | 18,359.4 | 18,437.6 | 18,398.5 | 3.9 | 2.8 | 3.4 | 1.1 |
| 2018Q1 | 18,530.5 | 18,601.5 | 18,566.0 | 3.8 | 3.6 | 3.7 | 0.2 |
| 2018Q2 | 18,654.4 | 18,636.7 | 18,645.6 | 2.7 | 0.8 | 1.7 | 1.9 |
| 2018Q3 | 18,752.4 | 18,846.9 | 18,799.6 | 2.1 | 4.6 | 3.3 | –2.5 |
| 2018Q4 | 18,813.9 | 18,876.3 | 18,845.1 | 1.3 | 0.6 | 1.0 | 0.7 |
| 2019Q1 | 18,950.3 | 18,979.5 | 18,964.9 | 2.9 | 2.2 | 2.6 | 0.7 |
| 2019Q2 | 19,020.6 | 19,036.1 | 19,028.3 | 1.5 | 1.2 | 1.3 | 0.3 |
| 2019Q3 | 19,141.7 | 19,075.1 | 19,108.4 | 2.6 | 0.8 | 1.7 | 1.8 |
| 2019Q4 | 19,254.0 | 19,230.7 | 19,242.4 | 2.4 | 3.3 | 2.8 | –0.9 |

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

Table D. Revisions to Cyclical Fluctuations in Real Gross Domestic Product, 1948–2019

| Contractions | | | | |
|-------------------|---|----------------------------------|-----------------------------------|--------------------------------------|
| Period | (Average annual rate of change; in percent) | (Percentage points, annual rate) | (Percent change; not annual rate) | (Percentage points, not annual rate) |
| | | Revision in percent change | | Revision in percent change |
| 1948 Q4 – 1949 Q4 | -1.5 | --- | -1.5 | --- |
| 1953 Q2 – 1954 Q2 | -2.4 | --- | -2.4 | --- |
| 1957 Q3 – 1958 Q2 | -3.9 | --- | -3.0 | --- |
| 1960 Q2 – 1961 Q1 | -0.2 | --- | -0.1 | --- |
| 1969 Q4 – 1970 Q4 | -0.2 | --- | -0.2 | --- |
| 1973 Q4 – 1975 Q1 | -2.5 | --- | -3.1 | --- |
| 1980 Q1 – 1980 Q3 | -4.3 | --- | -2.2 | --- |
| 1981 Q3 – 1982 Q4 | -2.0 | --- | -2.5 | --- |
| 1990 Q3 – 1991 Q1 | -2.7 | --- | -1.4 | --- |
| 2001 Q1 – 2001 Q4 | 0.6 | --- | 0.4 | --- |
| 2007 Q4 – 2009 Q2 | -2.7 | --- | -4.0 | --- |

Note: Periods of contraction and expansion reflect business cycle dates as determined by the National Bureau of Economic Research.

| Expansions | | | | |
|-------------------|---|----------------------------------|-----------------------------------|--------------------------------------|
| Period | (Average annual rate of change; in percent) | (Percentage points, annual rate) | (Percent change; not annual rate) | (Percentage points, not annual rate) |
| | | Revision in percent change | | Revision in percent change |
| 1949 Q4 – 1953 Q2 | 7.6 | --- | 29.3 | --- |
| 1954 Q2 – 1957 Q3 | 4.0 | --- | 13.7 | --- |
| 1958 Q2 – 1960 Q2 | 5.5 | --- | 11.4 | --- |
| 1961 Q1 – 1969 Q4 | 4.9 | --- | 51.9 | --- |
| 1970 Q4 – 1973 Q4 | 5.1 | --- | 16.1 | --- |
| 1975 Q1 – 1980 Q1 | 4.3 | --- | 23.2 | --- |
| 1980 Q3 – 1981 Q3 | 4.3 | --- | 4.3 | --- |
| 1982 Q4 – 1990 Q3 | 4.3 | --- | 38.2 | --- |
| 1991 Q1 – 2001 Q1 | 3.6 | --- | 42.6 | --- |
| 2001 Q4 – 2007 Q4 | 2.9 | --- | 18.7 | --- |
| 2009 Q2 – 2019 Q4 | 2.3 | 0.0 | 27.2 | 0.2 |

Note: Periods of contraction and expansion reflect business cycle dates as determined by the National Bureau of Economic Research.