

2017 Annual Update of the National Income and Product Accounts

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Table A1. Revisions to Real GDP and Its Major Components Over the Period 2013–2016

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2013	2016	Change for 2013 - 2016		2013	2016	Change for 2013 - 2016			
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)	Dollar	percent change, (percentage point)
Gross domestic product.....	1	15612.2	16662.1	1049.9	2.2	15612.2	16716.2	1104.0	2.3	54.1	0.1
Personal consumption expenditures.....	2	10565.4	11522.2	956.8	2.9	10565.4	11572.1	1006.7	3.1	49.9	0.2
Goods.....	3	3613.5	4048.2	434.7	3.9	3613.5	4072.2	458.7	4.1	24.0	0.2
Durable goods.....	4	1312.7	1584.6	271.9	6.5	1312.7	1595.1	282.4	6.7	10.5	0.2
Nondurable goods.....	5	2316.1	2500.4	184.3	2.6	2316.1	2514.3	198.2	2.8	13.9	0.2
Services.....	6	6951.3	7481.0	529.6	2.5	6951.3	7507.3	556.0	2.6	26.3	0.1
Gross private domestic investment.....	7	2616.5	2824.6	208.0	2.6	2616.5	2858.3	241.7	3.0	33.7	0.4
Fixed investment.....	8	2521.4	2785.9	264.6	3.4	2521.4	2803.4	282.1	3.6	17.5	0.2
Nonresidential.....	9	2032.9	2188.6	155.7	2.5	2032.9	2210.4	177.5	2.8	21.8	0.3
Structures.....	10	428.8	439.2	10.3	0.8	428.8	446.4	17.6	1.3	7.2	0.5
Equipment.....	11	982.3	1041.4	59.0	2.0	982.3	1047.8	65.4	2.2	6.4	0.2
Intellectual property products.....	12	624.5	711.9	87.4	4.5	624.5	720.4	95.9	4.9	8.6	0.4
Residential.....	13	488.3	591.9	103.6	6.6	488.3	587.4	99.1	6.4	-4.5	-0.2
Change in private inventories.....	14	78.7	22.0	-56.7	---	78.7	33.4	-45.3	---	11.4	---
Net exports of goods and services.....	15	-404.9	-563.0	-158.1	---	-404.9	-586.3	-181.3	---	-23.3	---
Exports.....	16	2031.5	2128.2	96.7	1.6	2031.5	2120.1	88.5	1.4	-8.1	-0.2
Goods.....	17	1385.7	1446.8	61.1	1.4	1385.7	1447.5	61.8	1.5	0.7	0.1
Services.....	18	645.7	681.4	35.6	1.8	645.7	672.8	27.1	1.4	-8.6	-0.4
Imports.....	19	2436.4	2691.2	254.7	3.4	2436.4	2706.3	269.9	3.6	15.1	0.2
Goods.....	20	1995.4	2210.1	214.8	3.5	1995.4	2220.0	224.6	3.6	9.8	0.1
Services.....	21	439.9	478.7	38.8	2.9	439.9	484.0	44.2	3.2	5.4	0.3
Government consumption expenditures and gross investment.....	22	2857.6	2907.0	49.5	0.6	2857.6	2900.2	42.6	0.5	-6.8	-0.1
Federal.....	23	1142.8	1120.5	-22.4	-0.7	1142.8	1114.6	-28.2	-0.8	-5.8	-0.1
National defense.....	24	715.7	667.0	-48.7	-2.3	715.7	667.0	-48.7	-2.3	0.0	0.0
Nondefense.....	25	427.0	452.6	25.6	2.0	427.0	447.0	19.9	1.5	-5.7	-0.5
State and local.....	26	1714.1	1784.8	70.7	1.4	1714.1	1783.6	69.5	1.3	-1.2	-0.1
Addenda:											
Gross domestic income /1/.....	27	15741.2	16874.3	1133.1	2.3	15741.2	16848.2	1107.0	2.3	-26.1	0.0
Average of GDP and GDI /2/.....	28	15676.7	16768.2	1091.5	2.3	15676.7	16782.2	1105.5	2.3	14.0	0.0
Final sales of domestic product.....	29	15521.1	16626.1	1105.0	2.3	15521.1	16664.1	1143.0	2.4	38.0	0.1
Gross domestic purchases.....	30	16016.9	17225.8	1208.9	2.5	16016.9	17301.6	1284.7	2.6	75.8	0.1
Gross national product.....	31	15822.2	16835.2	1013.0	2.1	15822.2	16879.0	1056.8	2.2	43.8	0.1
Disposable personal income /3/.....	32	11527.6	12667.3	1139.7	3.2	11527.6	12608.2	1080.6	3.0	-59.1	-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 A2. Revisions to Real GDP and Its Major Components Over the Period 2013:Q4–2014:Q4

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2013:Q4	2014:Q4	Change for 2013:Q4 - 2014:Q4		2013:Q4	2014:Q4	Change for 2013:Q4 - 2014:Q4			
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)	Dollar	percent change, (percentage point)
Gross domestic product.....	1	15793.9	16186.7	392.8	2.5	15793.9	16220.2	426.3	2.7	33.5	0.2
Personal consumption expenditures.....	2	10662.2	11036.4	374.2	3.5	10662.2	11045.2	383.0	3.6	8.8	0.1
Goods.....	3	3656.3	3826.2	170.0	4.6	3656.3	3827.8	171.5	4.7	1.6	0.1
Durable goods.....	4	1332.9	1448.1	115.3	8.6	1332.9	1448.2	115.4	8.7	0.1	0.1
Nondurable goods.....	5	2339.6	2404.3	64.7	2.8	2339.6	2405.7	66.1	2.8	1.4	0.0
Services.....	6	7005.6	7211.4	205.8	2.9	7005.6	7218.7	213.0	3.0	7.2	0.1
Gross private domestic investment.....	7	2692.0	2794.1	102.0	3.8	2692.0	2817.3	125.3	4.7	23.3	0.9
Fixed investment.....	8	2567.2	2702.3	135.1	5.3	2567.2	2724.2	157.0	6.1	22.0	0.8
Nonresidential.....	9	2076.3	2180.6	104.3	5.0	2076.3	2202.4	126.1	6.1	21.8	1.1
Structures.....	10	441.6	477.0	35.4	8.0	441.6	480.5	38.9	8.8	3.5	0.8
Equipment.....	11	1010.5	1039.9	29.3	2.9	1010.5	1052.3	41.7	4.1	12.4	1.2
Intellectual property products.....	12	627.2	665.1	37.9	6.1	627.2	670.9	43.7	7.0	5.8	0.9
Residential.....	13	491.1	521.4	30.3	6.2	491.1	521.8	30.7	6.3	0.4	0.1
Change in private inventories.....	14	103.6	76.9	-26.7	---	103.6	76.9	-26.7	---	0.0	---
Net exports of goods and services.....	15	-368.1	-454.0	-85.9	---	-368.1	-456.9	-88.9	---	-3.0	---
Exports.....	16	2088.6	2152.3	63.7	3.1	2088.6	2150.8	62.2	3.0	-1.5	-0.1
Goods.....	17	1435.7	1474.5	38.9	2.7	1435.7	1474.2	38.6	2.7	-0.3	0.0
Services.....	18	652.6	677.7	25.1	3.9	652.6	676.5	23.9	3.7	-1.2	-0.2
Imports.....	19	2456.6	2606.2	149.6	6.1	2456.6	2607.7	151.1	6.2	1.5	0.1
Goods.....	20	2012.8	2144.0	131.2	6.5	2012.8	2146.1	133.4	6.6	2.1	0.1
Services.....	21	442.6	460.4	17.8	4.0	442.6	459.7	17.1	3.9	-0.7	-0.1
Government consumption expenditures and gross investment.....	22	2831.5	2840.0	8.5	0.3	2831.5	2845.0	13.6	0.5	5.0	0.2
Federal.....	23	1119.1	1104.4	-14.7	-1.3	1119.1	1106.1	-13.0	-1.2	1.7	0.1
National defense.....	24	701.5	672.5	-29.0	-4.1	701.5	673.5	-28.0	-4.0	1.0	0.1
Nondefense.....	25	417.6	431.6	14.0	3.4	417.6	432.2	14.7	3.5	0.7	0.1
State and local.....	26	1711.5	1734.1	22.7	1.3	1711.5	1737.4	26.0	1.5	3.3	0.2
Addenda:											
Gross domestic income /1/.....	27	15851.3	16480.7	629.4	4.0	15851.3	16520.8	669.6	4.2	40.1	0.2
Average of GDP and GDI /2/.....	28	15822.6	16333.7	511.1	3.2	15822.6	16370.5	547.9	3.5	36.8	0.3
Final sales of domestic product.....	29	15674.3	16099.3	425.0	2.7	15674.3	16131.6	457.3	2.9	32.3	0.2
Gross domestic purchases.....	30	16160.2	16642.1	481.9	3.0	16160.2	16678.5	518.3	3.2	36.4	0.2
Gross national product.....	31	16010.8	16386.4	375.5	2.3	16010.8	16405.8	395.0	2.5	19.5	0.2
Disposable personal income /3/.....	32	11596.6	12123.4	526.8	4.5	11596.6	12169.6	573.0	4.9	46.2	0.4

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 and Its Major Components Over the Period 2014:Q4–2015:Q4

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2014:Q4	2015:Q4	Change for 2014:Q4 - 2015:Q4		2014:Q4	2015:Q4	Change for 2014:Q4 - 2015:Q4			
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)	Dollar	percent change, (percentage point)
Gross domestic product.....	1	16186.7	16490.7	303.9	1.9	16220.2	16547.6	327.4	2.0	23.5	0.1
Personal consumption expenditures.....	2	11036.4	11319.3	282.9	2.6	11045.2	11379.3	334.0	3.0	51.1	0.4
Goods.....	3	3826.2	3953.4	127.1	3.3	3827.8	3979.9	152.1	4.0	25.0	0.7
Durable goods.....	4	1448.1	1527.3	79.2	5.5	1448.2	1540.6	92.3	6.4	13.2	0.9
Nondurable goods.....	5	2404.3	2458.4	54.1	2.3	2405.7	2472.5	66.8	2.8	12.7	0.5
Services.....	6	7211.4	7369.8	158.4	2.2	7218.7	7403.7	185.0	2.6	26.7	0.4
Gross private domestic investment.....	7	2794.1	2865.4	71.4	2.6	2817.3	2879.2	61.9	2.2	-9.5	-0.4
Fixed investment.....	8	2702.3	2793.3	91.1	3.4	2724.2	2789.4	65.2	2.4	-25.9	-1.0
Nonresidential.....	9	2180.6	2198.8	18.2	0.8	2202.4	2209.9	7.5	0.3	-10.7	-0.5
Structures.....	10	477.0	435.1	-41.9	-8.8	480.5	436.7	-43.8	-9.1	-1.9	-0.3
Equipment.....	11	1039.9	1078.6	38.7	3.7	1052.3	1088.3	36.0	3.4	-2.7	-0.3
Intellectual property products.....	12	665.1	690.7	25.6	3.8	670.9	692.2	21.2	3.2	-4.3	-0.6
Residential.....	13	521.4	589.5	68.1	13.1	521.8	575.3	53.5	10.3	-14.6	-2.8
Change in private inventories.....	14	76.9	56.9	-20.0	---	76.9	68.2	-8.7	---	11.3	---
Net exports of goods and services.....	15	-454.0	-566.6	-112.6	---	-456.9	-571.5	-114.6	---	-2.0	---
Exports.....	16	2152.3	2105.8	-46.5	-2.2	2150.8	2111.9	-38.9	-1.8	7.6	0.4
Goods.....	17	1474.5	1423.8	-50.7	-3.4	1474.2	1428.2	-46.0	-3.1	4.7	0.3
Services.....	18	677.7	681.1	3.4	0.5	676.5	682.6	6.1	0.9	2.7	0.4
Imports.....	19	2606.2	2672.4	66.1	2.5	2607.7	2683.5	75.7	2.9	9.6	0.4
Goods.....	20	2144.0	2201.4	57.4	2.7	2146.1	2205.8	59.6	2.8	2.2	0.1
Services.....	21	460.4	469.0	8.6	1.9	459.7	475.7	16.0	3.5	7.4	1.6
Government consumption expenditures and gross investment.....	22	2840.0	2901.7	61.7	2.2	2845.0	2890.2	45.2	1.6	-16.5	-0.6
Federal.....	23	1104.4	1123.0	18.6	1.7	1106.1	1118.9	12.8	1.2	-5.8	-0.5
National defense.....	24	672.5	676.3	3.8	0.6	673.5	673.4	-0.1	0.0	-3.9	-0.6
Nondefense.....	25	431.6	446.2	14.6	3.4	432.2	445.0	12.7	2.9	-1.9	-0.5
State and local.....	26	1734.1	1777.1	42.9	2.5	1737.4	1769.7	32.3	1.9	-10.7	-0.6
Addenda:											
Gross domestic income /1/.....	27	16480.7	16730.3	249.6	1.5	16520.8	16789.8	269.0	1.6	19.3	0.1
Average of GDP and GDI /2/.....	28	16333.7	16610.5	276.8	1.7	16370.5	16668.7	298.2	1.8	21.4	0.1
Final sales of domestic product.....	29	16099.3	16422.4	323.2	2.0	16131.6	16462.1	330.6	2.0	7.4	0.0
Gross domestic purchases.....	30	16642.1	17057.2	415.1	2.5	16678.5	17118.7	440.2	2.6	25.1	0.1
Gross national product.....	31	16386.4	16668.4	282.1	1.7	16405.8	16729.2	323.3	2.0	41.3	0.3
Disposable personal income /3/.....	32	12123.4	12491.0	367.6	3.0	12169.6	12561.2	391.6	3.2	24.0	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 and Its Major Components Over the Period 2015:Q4–2016:Q4

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2015:Q4	2016:Q4	Change for 2015:Q4 - 2016:Q4		2015:Q4	2016:Q4	Change for 2015:Q4 - 2016:Q4		Dollar	percent change, (percentage point)
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)		
Gross domestic product.....	1	16490.7	16813.3	322.6	2.0	16547.6	16851.4	303.8	1.8	-18.8	-0.2
Personal consumption expenditures.....	2	11319.3	11669.8	350.5	3.1	11379.3	11702.1	322.8	2.8	-27.7	-0.3
Goods.....	3	3953.4	4127.5	174.1	4.4	3979.9	4138.4	158.5	4.0	-15.7	-0.4
Durable goods.....	4	1527.3	1648.2	120.9	7.9	1540.6	1647.9	107.3	7.0	-13.6	-0.9
Nondurable goods.....	5	2458.4	2522.8	64.4	2.6	2472.5	2533.2	60.7	2.5	-3.7	-0.1
Services.....	6	7369.8	7552.9	183.1	2.5	7403.7	7573.8	170.1	2.3	-12.9	-0.2
Gross private domestic investment.....	7	2865.4	2868.2	2.8	0.1	2879.2	2905.7	26.5	0.9	23.7	0.8
Fixed investment.....	8	2793.3	2798.9	5.6	0.2	2789.4	2820.3	30.9	1.1	25.3	0.9
Nonresidential.....	9	2198.8	2197.2	-1.6	-0.1	2209.9	2224.9	14.9	0.7	16.5	0.8
Structures.....	10	435.1	443.2	8.1	1.9	436.7	452.1	15.4	3.5	7.4	1.6
Equipment.....	11	1078.6	1037.2	-41.4	-3.8	1088.3	1048.0	-40.3	-3.7	1.1	0.1
Intellectual property products.....	12	690.7	720.2	29.5	4.3	692.2	728.3	36.2	5.2	6.7	0.9
Residential.....	13	589.5	596.0	6.5	1.1	575.3	589.8	14.4	2.5	8.0	1.4
Change in private inventories.....	14	56.9	49.6	-7.3	---	68.2	63.1	-5.1	---	2.2	---
Net exports of goods and services.....	15	-566.6	-605.0	-38.4	---	-571.5	-631.1	-59.6	---	-21.1	---
Exports.....	16	2105.8	2137.4	31.6	1.5	2111.9	2124.4	12.5	0.6	-19.2	-0.9
Goods.....	17	1423.8	1453.6	29.9	2.1	1428.2	1454.5	26.3	1.8	-3.6	-0.3
Services.....	18	681.1	683.8	2.7	0.4	682.6	670.6	-12.0	-1.8	-14.7	-2.2
Imports.....	19	2672.4	2742.4	70.1	2.6	2683.5	2755.5	72.0	2.7	2.0	0.1
Goods.....	20	2201.4	2254.9	53.6	2.4	2205.8	2260.7	54.9	2.5	1.4	0.1
Services.....	21	469.0	485.1	16.1	3.4	475.7	492.4	16.7	3.5	0.6	0.1
Government consumption expenditures and gross investment.....	22	2901.7	2907.6	6.0	0.2	2890.2	2901.2	10.9	0.4	5.0	0.2
Federal.....	23	1123.0	1121.0	-2.0	-0.2	1118.9	1115.2	-3.7	-0.3	-1.7	-0.1
National defense.....	24	676.3	662.8	-13.5	-2.0	673.4	664.1	-9.3	-1.4	4.2	0.6
Nondefense.....	25	446.2	457.3	11.1	2.5	445.0	450.3	5.4	1.2	-5.7	-1.3
State and local.....	26	1777.1	1784.9	7.9	0.4	1769.7	1784.1	14.4	0.8	6.5	0.4
Addenda:											
Gross domestic income /1/.....	27	16730.3	16940.8	210.5	1.3	16789.8	16882.1	92.3	0.5	-118.2	-0.8
Average of GDP and GDI /2/.....	28	16610.5	16877.1	266.6	1.6	16668.7	16866.8	198.0	1.2	-68.5	-0.4
Final sales of domestic product.....	29	16422.4	16747.7	325.2	2.0	16462.1	16770.0	307.8	1.9	-17.4	-0.1
Gross domestic purchases.....	30	17057.2	17416.4	359.2	2.1	17118.7	17478.6	359.9	2.1	0.7	0.0
Gross national product.....	31	16668.4	17017.6	349.1	2.1	16729.2	17041.1	311.9	1.9	-37.2	-0.2
Disposable personal income /3/.....	32	12491.0	12729.2	238.2	1.9	12561.2	12590.8	29.7	0.2	-208.6	-1.7

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 and Its Major Components Over the Period 2013:Q4–2017:Q1

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2013:Q4	2017:Q1	Change for 2013:Q4 - 2017:Q1		2013:Q4	2017:Q1	Change for 2013:Q4 - 2017:Q1		Dollar	percent change, (percentage point)
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)		
Gross domestic product.....	1	15793.9	16872.8	1078.9	2.1	15793.9	16903.2	1109.3	2.1	30.4	0.0
Personal consumption expenditures.....	2	10662.2	11701.3	1039.1	2.9	10662.2	11758.0	1095.8	3.1	56.7	0.2
Goods.....	3	3656.3	4132.5	476.2	3.8	3656.3	4145.4	489.1	3.9	12.9	0.1
Durable goods.....	4	1332.9	1641.7	308.8	6.6	1332.9	1647.3	314.4	6.7	5.6	0.1
Nondurable goods.....	5	2339.6	2532.7	193.1	2.5	2339.6	2540.2	200.6	2.6	7.5	0.1
Services.....	6	7005.6	7578.5	572.9	2.4	7005.6	7621.0	615.4	2.6	42.5	0.2
Gross private domestic investment.....	7	2692.0	2894.3	202.3	2.3	2692.0	2897.0	205.0	2.3	2.7	0.0
Fixed investment.....	8	2567.2	2873.0	305.8	3.5	2567.2	2875.7	308.5	3.6	2.7	0.1
Nonresidential.....	9	2076.3	2252.3	176.0	2.5	2076.3	2263.6	187.3	2.7	11.4	0.2
Structures.....	10	441.6	466.3	24.7	1.7	441.6	468.0	26.4	1.8	1.7	0.1
Equipment.....	11	1010.5	1056.8	46.2	1.4	1010.5	1059.4	48.9	1.5	2.6	0.1
Intellectual property products.....	12	627.2	731.5	104.3	4.8	627.2	738.6	111.4	5.2	7.1	0.4
Residential.....	13	491.1	614.4	123.3	7.1	491.1	605.5	114.4	6.7	-8.9	-0.4
Change in private inventories.....	14	103.6	2.6	-101.0	---	103.6	1.2	-102.4	---	-1.4	---
Net exports of goods and services.....	15	-368.1	-595.6	-227.6	---	-368.1	-622.2	-254.1	---	-26.6	---
Exports.....	16	2088.6	2174.0	85.4	1.2	2088.6	2162.3	73.7	1.1	-11.7	-0.1
Goods.....	17	1435.7	1490.4	54.7	1.2	1435.7	1492.3	56.6	1.2	1.9	0.0
Services.....	18	652.6	685.0	32.4	1.5	652.6	672.2	19.6	0.9	-12.8	-0.6
Imports.....	19	2456.6	2769.6	313.0	3.8	2456.6	2784.5	327.9	3.9	14.9	0.1
Goods.....	20	2012.8	2279.2	266.4	3.9	2012.8	2286.7	274.0	4.0	7.5	0.1
Services.....	21	442.6	488.1	45.5	3.1	442.6	495.5	52.9	3.5	7.4	0.4
Government consumption expenditures and gross investment.....	22	2831.5	2901.2	69.7	0.8	2831.5	2896.6	65.2	0.7	-4.6	-0.1
Federal.....	23	1119.1	1115.3	-3.8	-0.1	1119.1	1108.4	-10.7	-0.3	-6.9	-0.2
National defense.....	24	701.5	656.2	-45.3	-2.0	701.5	658.6	-42.9	-1.9	2.4	0.1
Nondefense.....	25	417.6	458.1	40.5	2.9	417.6	449.0	31.5	2.3	-9.0	-0.6
State and local.....	26	1711.5	1784.1	72.7	1.3	1711.5	1786.2	74.7	1.3	2.0	0.0
Addenda:											
Gross domestic income /1/.....	27	15851.3	16983.3	1132.1	2.1	15851.3	16992.1	1140.8	2.2	8.8	0.1
Average of GDP and GDI /2/.....	28	15822.6	16928.1	1105.5	2.1	15822.6	16947.7	1125.1	2.1	19.6	0.0
Final sales of domestic product.....	29	15674.3	16853.7	1179.5	2.3	15674.3	16883.5	1209.2	2.3	29.8	0.0
Gross domestic purchases.....	30	16160.2	17466.6	1306.4	2.4	16160.2	17521.6	1361.4	2.5	55.0	0.1
Gross national product.....	31	16010.8	17062.8	1051.9	2.0	16010.8	17081.0	1070.2	2.0	18.2	0.0
Disposable personal income /3/.....	32	11596.6	12782.8	1186.2	3.0	11596.6	12679.0	1082.4	2.8	-103.8	-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 and Its Major Components Over the Period 2009:Q2–2017:Q1

[Billions of chained dollars, seasonally adjusted at annual rates]

	Line	Previously published Chained (2009) dollars				Revised Chained (2009) dollars				Revision in change	
		2009:Q 2	2017:Q 1	Change for 2009:Q2 - 2017:Q1		2009:Q 2	2017:Q 1	Change for 2009:Q2 - 2017:Q1		Dollar	percent change, (percent- age point)
				Dollar	Percent (annual rate)			Dollar	Percent (annual rate)		
Gross domestic product.....	1	14355.6	16872.8	2517.2	2.1	14355.6	16903.2	2547.7	2.1	30.4	0.0
Personal consumption expenditures.....	2	9806.4	11701.3	1894.9	2.3	9806.4	11758.0	1951.7	2.4	56.7	0.1
Goods.....	3	3166.9	4132.5	965.6	3.5	3166.9	4145.4	978.5	3.5	12.9	0.0
Durable goods.....	4	1002.6	1641.7	639.1	6.6	1002.6	1647.3	644.7	6.6	5.6	0.0
Nondurable goods.....	5	2164.4	2532.7	368.3	2.0	2164.4	2540.2	375.8	2.1	7.5	0.1
Services.....	6	6639.5	7578.5	939.0	1.7	6639.5	7621.0	981.6	1.8	42.5	0.1
Gross private domestic investment.....	7	1820.5	2894.3	1073.8	6.2	1820.5	2897.0	1076.4	6.2	2.7	0.0
Fixed investment.....	8	2011.0	2873.0	862.0	4.7	2011.0	2875.7	864.7	4.7	2.7	0.0
Nonresidential.....	9	1634.0	2252.3	618.3	4.2	1634.0	2263.6	629.7	4.3	11.4	0.1
Structures.....	10	453.3	466.3	13.0	0.4	453.3	468.0	14.8	0.4	1.7	0.0
Equipment.....	11	631.6	1056.8	425.2	6.9	631.6	1059.4	427.8	6.9	2.6	0.0
Intellectual property products.....	12	549.4	731.5	182.1	3.8	549.4	738.6	189.2	3.9	7.1	0.1
Residential.....	13	377.0	614.4	237.5	6.5	377.0	605.5	228.6	6.3	-8.9	-0.2
Change in private inventories.....	14	-190.1	2.6	192.7	---	-190.1	1.2	191.3	---	-1.4	---
Net exports of goods and services.....	15	-366.3	-595.6	-229.3	---	-366.3	-622.2	-255.9	---	-26.6	---
Exports.....	16	1539.4	2174.0	634.6	4.6	1539.4	2162.3	622.9	4.5	-11.7	-0.1
Goods.....	17	1020.8	1490.4	469.6	5.0	1020.8	1492.3	471.5	5.0	1.9	0.0
Services.....	g	518.7	685.0	166.3	3.7	518.7	672.2	153.5	3.4	-12.8	-0.3
Imports.....	19	1905.7	2769.6	863.9	4.9	1905.7	2784.5	878.8	5.0	14.9	0.1
Goods.....	20	1515.6	2279.2	763.7	5.4	1515.6	2286.7	771.2	5.5	7.5	0.1
Services.....	21	390.0	488.1	98.0	2.9	390.0	495.5	105.4	3.1	7.4	0.2
Government consumption expenditures and gross investment.....	22	3096.0	2901.2	-194.8	-0.8	3096.0	2896.6	-199.4	-0.9	-4.6	-0.1
Federal.....	23	1218.9	1115.3	-103.6	-1.1	1218.9	1108.4	-110.5	-1.2	-6.9	-0.1
National defense.....	24	788.4	656.2	-132.3	-2.3	788.4	658.6	-129.9	-2.3	2.4	0.0
Nondefense.....	25	430.4	458.1	27.6	0.8	430.4	449.0	18.6	0.5	-9.0	-0.3
State and local.....	26	1877.1	1784.1	-93.0	-0.7	1877.1	1786.2	-91.0	-0.6	2.0	0.1
Addenda:											
Gross domestic income /1/.....	27	14259.2	16983.3	2724.1	2.3	14259.2	16992.1	2732.9	2.3	8.8	0.0
Average of GDP and GDI /2/.....	28	14307.4	16928.1	2620.6	2.2	14307.4	16947.7	2640.2	2.2	19.6	0.0
Final sales of domestic product.....	29	14545.8	16853.7	2307.9	1.9	14545.8	16883.5	2337.6	1.9	29.8	0.0
Gross domestic purchases.....	30	14722.7	17466.6	2743.8	2.2	14722.7	17521.6	2798.9	2.3	55.0	0.1
Gross national product.....	31	14480.6	17062.8	2582.2	2.1	14480.6	17081.0	2600.4	2.2	18.2	0.1
Disposable personal income /3/.....	32	11026.4	12782.8	1756.4	1.9	11026.4	12679.0	1652.6	1.8	-103.8	-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 2013–2016

[Index numbers, seasonally adjusted]

	Line	Previously published Index numbers (2009=100)			Revised Index numbers (2009=100)			Revision in percent change, (percentage point)
		2013	2016	Percent change for 2013 - 2016 (annual rate)	2013	2016	Percent change for 2013 - 2016 (annual rate)	
Gross domestic product.....	1	106.917	111.451	1.4	106.917	111.419	1.4	0.0
Less: Exports of goods and services.....	2	112.064	104.899	-2.2	112.064	104.458	-2.3	-0.1
Plus: Imports of goods and services.....	3	113.634	101.569	-3.7	113.634	101.090	-3.8	-0.1
Equals: Gross domestic purchases.....	4	107.287	110.713	1.1	107.287	110.661	1.0	-0.1
Personal consumption expenditures.....	5	107.532	110.721	1.0	107.532	110.789	1.0	0.0
Goods.....	6	106.116	101.237	-1.6	106.116	101.209	-1.6	0.0
Durable goods.....	7	94.590	88.553	-2.2	94.590	88.460	-2.2	0.0
Nondurable goods.....	8	111.946	107.795	-1.3	111.946	107.800	-1.3	0.0
Services.....	9	108.276	115.752	2.3	108.276	115.878	2.3	0.0
Gross private domestic investment.....	10	103.454	107.518	1.3	103.454	106.978	1.1	-0.2
Fixed investment.....	11	103.670	108.216	1.4	103.670	107.801	1.3	-0.1
Nonresidential.....	12	103.023	105.489	0.8	103.023	104.790	0.6	-0.2
Structures.....	13	108.116	112.445	1.3	108.116	115.637	2.3	1.0
Equipment.....	14	100.047	101.497	0.5	100.047	99.634	-0.1	-0.6
Intellectual property products.....	15	103.755	106.486	0.9	103.755	104.966	0.4	-0.5
Residential.....	16	106.393	119.303	3.9	106.393	120.157	4.1	0.2
Change in private inventories.....	17	---	---	---	---	---	---	---
Government consumption expenditures and gross investment.....	18	109.046	112.720	1.1	109.046	112.676	1.1	0.0
Federal.....	19	107.581	111.069	1.1	107.581	110.488	0.9	-0.2
National defense.....	20	107.167	109.768	0.8	107.167	109.285	0.7	-0.1
Nondefense.....	21	108.296	113.186	1.5	108.296	112.448	1.3	-0.2
State and local.....	22	110.063	113.864	1.1	110.063	114.164	1.2	0.1
Addenda:.....								
Gross domestic purchases excluding food and energy.....	23	106.507	111.179	1.4	106.507	111.124	1.4	0.0
Gross national product.....	24	107.042	111.533	1.4	107.042	111.511	1.4	0.0
PCE excluding food and energy.....	25	106.323	111.356	1.6	106.323	111.391	1.6	0.0
Market-based PCE.....	26	107.000	109.087	0.6	107.000	109.067	0.6	0.0
Market-based PCE, excluding food and energy.....	27	105.522	109.533	1.3	105.522	109.467	1.2	-0.1

Table B2. Revisions to the Chain-Type Price Indexes Over the Period 2013:Q4–2017:Q1

[Index numbers, seasonally adjusted]

	Line	Previously published Index numbers (2009=100)			Revised Index numbers (2009=100)			Revision in percent change, (percentage point)
		2013:Q4	2017:Q1	Percent change for 2013:Q4 - 2017:Q1 (annual rate)	2013:Q4	2017:Q1	Percent change for 2013:Q4 - 2017:Q1 (annual rate)	
Gross domestic product.....	1	107.674	112.780	1.4	107.674	112.752	1.4	0.0
Less: Exports of goods and services.....	2	111.892	106.699	-1.5	111.892	106.168	-1.6	-0.1
Plus: Imports of goods and services.....	3	113.069	104.063	-2.5	113.069	103.381	-2.7	-0.2
Equals: Gross domestic purchases.....	4	107.961	112.168	1.2	107.961	112.100	1.2	0.0
Personal consumption expenditures.....	5	108.089	112.130	1.1	108.089	112.198	1.2	0.1
Goods.....	6	105.901	102.131	-1.1	105.901	102.062	-1.1	0.0
Durable goods.....	7	93.757	87.645	-2.1	93.757	87.587	-2.1	0.0
Nondurable goods.....	8	112.086	109.832	-0.6	112.086	109.746	-0.6	0.0
Services.....	9	109.235	117.437	2.3	109.235	117.585	2.3	0.0
Gross private domestic investment.....	10	104.176	108.530	1.3	104.176	108.014	1.1	-0.2
Fixed investment.....	11	104.507	109.281	1.4	104.507	108.808	1.2	-0.2
Nonresidential.....	12	103.453	106.075	0.8	103.453	105.292	0.5	-0.3
Structures.....	13	109.713	113.851	1.1	109.713	117.183	2.0	0.9
Equipment.....	14	99.741	101.704	0.6	99.741	99.832	0.0	-0.6
Intellectual property products.....	15	104.526	107.106	0.8	104.526	105.248	0.2	-0.6
Residential.....	16	108.924	122.157	3.6	108.924	123.102	3.8	0.2
Change in private inventories.....	17	---	---	---	---	---	---	---
Government consumption expenditures and gross investment.....	18	110.108	114.785	1.3	110.108	114.624	1.2	-0.1
Federal.....	19	109.088	113.004	1.1	109.088	112.266	0.9	-0.2
National defense.....	20	108.197	111.567	0.9	108.197	110.882	0.8	-0.1
Nondefense.....	21	110.600	115.321	1.3	110.600	114.494	1.1	-0.2
State and local.....	22	110.831	116.013	1.4	110.831	116.220	1.5	0.1
Addenda:.....								
Gross domestic purchases excluding food and energy.....	23	107.241	112.497	1.5	107.241	112.422	1.5	0.0
Gross national product.....	24	107.798	112.863	1.4	107.798	112.834	1.4	0.0
PCE excluding food and energy.....	25	106.934	112.541	1.6	106.934	112.590	1.6	0.0
Market-based PCE.....	26	107.406	110.458	0.9	107.406	110.390	0.8	-0.1
Market-based PCE, excluding food and energy.....	27	105.966	110.645	1.3	105.966	110.539	1.3	0.0

Table C. Revisions to Changes From Preceding Period in Real Gross Domestic Product and Real Gross Domestic Income: Annually, 2006-2016, and Quarterly, 2011:I-2017I

Year and quarter	Previously published							Revised						
	Chained (2009) dollars			Percent change				Chained (2009) dollars			Percent change			
	GDP	GDI /1/	Average	GDP	GDI	Average	Difference GDP-GDI	GDP	GDI /1/	Average	GDP	GDI	Average	Difference GDP-GDI
2006	14613.8	14842.9	14728.4	2.7	4.0	3.3	-1.3							
2007	14873.7	14855.8	14864.8	1.8	0.1	0.9	1.7							
2008	14830.4	14730.2	14780.3	-0.3	-0.8	-0.6	0.5							
2009	14418.7	14343.4	14381.1	-2.8	-2.6	-2.7	-0.2							
2010	14783.8	14735.2	14759.5	2.5	2.7	2.6	-0.2							
2011	15020.6	15057.7	15039.1	1.6	2.2	1.9	-0.6							
2012	15,354.6	15547.8	15451.2	2.2	3.3	2.7	-1.1							
2013	15,612.2	15741.2	15676.7	1.7	1.2	1.5	0.5							
2014	15,982.3	16219.3	16100.8	2.4	3.0	2.7	-0.6	16013.3	16224.6	16118.9	2.6	3.1	2.8	-0.5
2015	16,397.2	16627.8	16512.5	2.6	2.5	2.6	0.1	16471.5	16704.1	16587.8	2.9	3.0	2.9	-0.1
2016	16,662.1	16874.3	16768.2	1.6	1.5	1.5	0.1	16716.2	16848.2	16782.2	1.5	0.9	1.2	0.6
2011:Q1	14,881.3	14924.4	14902.8	-1.5	0.5	-0.5	-2.0							
2011:Q2	14,989.6	14996.1	14992.8	2.9	1.9	2.4	1.0							
2011:Q3	15,021.1	15093.1	15057.1	0.8	2.6	1.7	-1.8							
2011:Q4	15,190.3	15217.0	15203.6	4.6	3.3	3.9	1.3							
2012:Q1	15,291.0	15500.4	15395.7	2.7	7.7	5.2	-5.0							
2012:Q2	15,362.4	15522.8	15442.6	1.9	0.6	1.2	1.3							
2012:Q3	15,380.8	15517.1	15449.0	0.5	-0.1	0.2	0.6							
2012:Q4	15,384.3	15650.6	15517.4	0.1	3.5	1.8	-3.4							
2013:Q1	15,491.9	15642.7	15567.3	2.8	-0.2	1.3	3.0							
2013:Q2	15,521.6	15719.8	15620.7	0.8	2.0	1.4	-1.2							
2013:Q3	15,641.3	15752.0	15696.7	3.1	0.8	2.0	2.3							
2013:Q4	15,793.9	15851.3	15822.6	4.0	2.5	3.2	1.5							
2014:Q1	15,747.0	15932.3	15839.7	-1.2	2.1	0.4	-3.3	15757.6	15912.8	15835.2	-0.9	1.6	0.3	-2.5
2014:Q2	15,900.8	16142.4	16021.6	4.0	5.4	4.7	-1.4	15935.8	16136.1	16035.9	4.6	5.7	5.2	-1.1
2014:Q3	16,094.5	16321.2	16207.8	5.0	4.5	4.7	0.5	16139.5	16327.9	16233.7	5.2	4.8	5.0	0.4
2014:Q4	16,186.7	16480.7	16333.7	2.3	4.0	3.1	-1.7	16220.2	16520.8	16370.5	2.0	4.8	3.4	-2.8
2015:Q1	16,269.0	16544.3	16406.6	2.0	1.6	1.8	0.4	16350.0	16599.6	16474.8	3.2	1.9	2.6	1.3
2015:Q2	16,374.2	16567.8	16471.0	2.6	0.6	1.6	2.0	16460.9	16700.6	16580.8	2.7	2.5	2.6	0.2
2015:Q3	16,454.9	16669.0	16561.9	2.0	2.5	2.2	-0.5	16527.6	16726.7	16627.1	1.6	0.6	1.1	1.0
2015:Q4	16,490.7	16730.3	16610.5	0.9	1.5	1.2	-0.6	16547.6	16789.8	16668.7	0.5	1.5	1.0	-1.0
2016:Q1	16,525.0	16763.9	16644.5	0.8	0.8	0.8	0.0	16571.6	16776.1	16673.8	0.6	-0.3	0.1	0.9
2016:Q2	16,583.1	16793.4	16688.3	1.4	0.7	1.1	0.7	16663.5	16783.0	16723.2	2.2	0.2	1.2	2.0
2016:Q3	16,727.0	16999.8	16863.4	3.5	5.0	4.3	-1.5	16778.1	16953.0	16865.6	2.8	4.1	3.4	-1.3
2016:Q4	16,813.3	16940.8	16877.1	2.1	-1.4	0.3	3.5	16851.4	16882.1	16866.8	1.8	-1.7	0.0	3.5
2017:Q1	16,872.8	16983.3	16928.1	1.4	1.0	1.2	0.4	16903.2	16992.1	16947.7	1.2	2.6	1.9	-1.4

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

Table D. Revisions to Personal Saving Rate:
Annually, 2006–2016, and Quarterly, 2011:Q1–2017:Q1

Year and quarter	Previously published	Revised	Revision
2006	3.3		
2007	2.9		
2008	4.9		
2009	6.1		
2010	5.6		
2011	6.0		
2012	7.6		
2013	5.0		
2014	5.6	5.7	0.1
2015	5.8	6.1	0.3
2016	5.7	4.9	-0.8
2011:Q1	6.3		
2011:Q2	6.0		
2011:Q3	6.1		
2011:Q4	5.8		
2012:Q1	6.8		
2012:Q2	7.4		
2012:Q3	7.1		
2012:Q4	9.2		
2013:Q1	4.8		
2013:Q2	5.2		
2013:Q3	5.3		
2013:Q4	4.7		
2014:Q1	5.3	5.3	0.0
2014:Q2	5.7	5.7	0.0
2014:Q3	5.7	5.8	0.1
2014:Q4	5.6	5.9	0.3
2015:Q1	5.5	6.0	0.5
2015:Q2	5.7	6.2	0.5
2015:Q3	5.9	6.0	0.1
2015:Q4	6.0	6.1	0.1
2016:Q1	6.1	5.7	-0.4
2016:Q2	5.9	5.3	-0.6
2016:Q3	5.9	4.8	-1.1
2016:Q4	4.9	3.6	-1.3
2017:Q1	5.1	3.9	-1.2

Table E1CE. Revisions to Cyclical Fluctuations in Real Gross Domestic Product, 1948–2017

	[Average annual rate of change, in percent]		[Percentage points, annual rate]	[Percent change, not annual rate]		[Percentage points, not annual rate]
	Revised	Previously Published	Revision in Percent Change	Revised	Previously Published	Revision in Percent Change
Contractions						
1948:Q4–1949:Q4	-1.5	-1.5		-1.5	-1.5	
1953:Q2–1954:Q2	-2.4	-2.4		-2.4	-2.4	
1957:Q3–1958:Q2	-3.9	-3.9		-3.0	-3.0	
1960:Q2–1961:Q1	-0.4	-0.4		-0.3	-0.3	
1969:Q4–1970:Q4	-0.2	-0.2		-0.2	-0.2	
1973:Q4–1975:Q1	-2.5	-2.5		-3.1	-3.1	
1980:Q1–1980:Q3	-4.3	-4.3		-2.2	-2.2	
1981:Q3–1982:Q4	-2.0	-2.0		-2.5	-2.5	
1990:Q3–1991:Q1	-2.6	-2.6		-1.3	-1.3	
2001:Q1–2001:Q4	0.7	0.7		0.5	0.5	
2007:Q4–2009:Q2	-2.8	-2.8		-4.2	-4.2	
Expansions						
1949:Q4–1953:Q2	7.6	7.6		29.4	29.4	
1954:Q2–1957:Q3	4.0	4.0		13.6	13.6	
1958:Q2–1960:Q2	5.6	5.6		11.5	11.5	
1961:Q1–1969:Q4	4.9	4.9		52.0	52.0	
1970:Q4–1973:Q4	5.1	5.1		16.0	16.0	
1975:Q1–1980:Q1	4.3	4.3		23.3	23.3	
1980:Q3–1981:Q3	4.4	4.4		4.4	4.4	
1982:Q4–1990:Q3	4.3	4.3		38.4	38.4	
1991:Q1–2001:Q1	3.6	3.6		42.6	42.6	
2001:Q4–2007:Q4	2.8	2.8		18.0	18.0	
2009:Q2–2017:Q1*	2.1	2.1	0.0	17.7	17.5	0.2

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

* The average annual rate of change for the current expansion, through 2017:Q2 is 2.1 percent; the cumulative percent change, not at an annual rate is 18.5 percent.