

Appendix D. Real Gross Domestic Product

The real gross domestic product (GDP) data used in the U.S. Energy Information Administration (EIA) State Energy Data System (SEDS) to calculate total energy consumed per chained (2012) dollar of output are in Tables D1 and D2. The data are the U.S. Department of Commerce, Bureau of Economic Analysis (BEA), real GDP estimates by state, beginning in 1997.

BEA publishes both the national-level and state-level real GDP data in the “Regional Economic Accounts” dataset. However, there is a difference in the coverage between the two series. The difference between the sum of the states GDP and the U.S-level GDP reflects federal military and civilian activity located overseas. For details, see BEA’s Regional Economic Accounts: Methodologies, <http://www.bea.gov/regional/methods.cfm>.

Additional note

For 1997 forward, BEA reports real GDP using the North American Industry Classification System (NAICS). Before 1997, BEA reports real GDP using the Standard Industrial Classification (SIC). Through the 2012 data cycle, SEDS published real GDP by state for 1977 forward. In 2014, BEA completed a comprehensive revision of the state GDP and only revised the data for 1997 forward. Because of the incompatibility between the two sets of data, SEDS removed state GDP data before 1997.

Data sources

GDPRXZZ — Real gross domestic product by state and the United States in million chained (2012) dollars.

- 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Accounts, <https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1>, select Annual Gross Domestic Product by State, Gross Domestic Product (GDP) summary (SAGDP1), All Areas, and Real GDP (millions of chained 2012 dollars).

Table D1. Real Gross Domestic Product by State, 1997-2007
(Billion Chained (2012) Dollars)

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	R 144.5	R 149.6	R 155.2	R 157.7	R 157.1	R 161.3	R 165.3	R 175.9	R 181.9	R 185.3	R 186.5
Alaska	42.3	41.2	R 40.8	R 39.6	41.0	42.9	R 42.1	R 43.8	45.1	48.5	51.1
Arizona	R 168.4	R 183.0	R 198.0	207.8	R 212.6	R 219.4	233.3	243.2	R 263.0	R 277.2	R 284.8
Arkansas	82.8	84.8	89.3	90.2	R 90.1	R 93.0	R 96.7	101.2	R 104.8	R 107.1	R 106.3
California	R 1,379.7	R 1,470.5	R 1,583.2	R 1,709.5	R 1,707.1	R 1,747.2	R 1,829.3	R 1,902.6	R 1,988.7	R 2,072.3	R 2,103.0
Colorado	R 184.5	R 201.0	R 216.1	232.8	R 236.3	R 236.9	R 238.8	R 241.2	R 251.3	R 256.2	R 264.7
Connecticut	R 190.7	196.2	R 202.3	R 216.3	R 219.9	220.0	R 222.1	R 236.7	R 242.4	251.6	R 261.0
Delaware	R 45.8	R 50.1	53.9	R 56.3	R 59.0	R 56.9	R 57.9	R 60.5	R 59.8	R 61.4	61.2
District of Columbia	R 79.7	R 81.1	R 84.5	R 85.2	R 88.4	91.2	R 93.1	R 97.9	100.0	R 100.3	103.0
Florida	R 560.8	R 588.9	R 614.4	R 641.2	R 658.3	R 685.0	R 715.0	R 757.6	R 806.8	R 834.4	R 835.6
Georgia	R 329.1	R 353.3	R 378.2	R 391.2	R 395.0	R 399.8	R 410.9	429.3	R 445.8	R 451.0	R 452.7
Hawaii	55.7	54.4	55.2	56.4	R 56.1	57.9	60.8	64.9	68.6	70.4	71.2
Idaho	R 37.1	R 38.9	R 42.6	R 47.5	R 46.2	R 47.3	R 48.6	R 51.4	55.4	57.6	58.7
Illinois	R 577.5	R 596.2	R 618.3	R 640.9	R 642.5	R 647.0	R 656.4	R 675.7	R 688.5	R 706.1	R 712.9
Indiana	232.2	R 246.1	R 254.0	R 264.1	R 258.8	265.1	275.2	R 284.6	R 285.6	R 291.7	299.4
Iowa	R 113.6	R 114.4	R 116.8	R 122.4	R 120.9	R 124.3	R 129.2	R 140.0	143.9	R 146.1	R 152.5
Kansas	104.8	R 108.4	R 111.0	R 113.9	R 114.2	R 115.7	117.5	R 118.3	122.3	128.9	R 135.6
Kentucky	R 146.9	R 151.2	R 155.9	R 151.8	R 151.8	155.7	R 159.4	163.4	168.8	R 173.5	171.9
Louisiana	R 201.7	R 208.5	R 212.7	R 206.5	209.0	213.1	R 221.3	R 231.5	R 245.7	R 243.4	R 234.5
Maine	43.0	44.2	46.4	48.5	49.4	50.6	51.7	53.5	53.6	54.3	54.0
Maryland	221.2	231.8	240.9	R 250.9	R 260.9	270.9	R 292.0	R 306.1	R 311.6	R 311.6	R 312.0
Massachusetts	R 302.5	R 315.1	R 332.3	R 359.3	R 363.9	R 364.9	R 374.7	R 383.9	R 391.5	R 398.3	R 408.5
Michigan	R 397.1	406.3	R 429.7	438.3	R 423.7	435.3	R 442.7	R 444.4	R 450.6	R 443.6	441.1
Minnesota	R 212.5	R 223.8	R 231.5	R 247.3	R 247.0	R 252.7	R 263.7	R 274.8	R 282.5	R 282.6	R 283.9
Mississippi	R 83.3	85.3	87.6	88.1	R 87.3	R 88.4	R 92.0	R 93.8	R 95.5	R 98.0	R 100.4
Missouri	R 228.0	232.1	R 238.8	R 245.3	R 243.5	R 246.9	R 253.1	R 258.6	R 263.3	R 264.4	R 264.6
Montana	29.2	30.5	30.6	31.4	R 31.6	32.5	R 33.9	R 35.3	37.1	R 38.5	40.4
Nebraska	R 70.8	R 72.4	73.9	R 76.7	R 78.4	79.7	84.1	86.1	R 89.1	R 91.5	R 93.6
Nevada	R 89.9	R 94.7	R 101.2	R 105.5	106.7	R 110.2	R 115.1	R 127.8	R 138.8	R 144.6	R 144.3
New Hampshire	48.4	51.6	53.1	56.7	57.4	R 59.1	61.6	63.5	64.4	65.9	65.7
New Jersey	R 425.9	R 433.4	R 448.5	R 472.8	R 476.3	R 486.9	R 499.4	R 507.2	R 513.1	R 523.8	R 526.7
New Mexico	67.4	67.1	70.7	72.0	R 72.0	R 74.2	77.1	82.8	83.8	85.9	86.5
New York	R 977.6	R 996.0	R 1,046.5	R 1,084.8	R 1,107.9	R 1,098.8	R 1,101.6	R 1,129.0	R 1,167.6	R 1,196.7	R 1,203.5
North Carolina	R 316.6	R 327.7	R 345.6	R 357.8	R 360.8	R 365.8	R 374.6	R 387.8	R 406.3	R 431.8	R 436.8
North Dakota	R 22.5	23.7	R 23.8	R 24.7	R 25.1	26.4	28.0	28.3	R 29.2	R 30.4	R 31.8
Ohio	R 471.7	R 488.1	499.1	R 509.6	R 502.3	R 514.1	R 522.4	R 534.6	R 544.3	R 541.6	R 541.7
Oklahoma	R 115.3	R 117.8	119.7	R 124.2	128.7	131.1	R 132.9	R 137.1	R 142.8	R 152.5	R 155.3
Oregon	R 118.6	124.2	126.9	137.8	136.7	R 139.6	R 145.5	R 152.9	R 158.4	167.9	R 171.0
Pennsylvania	R 496.6	R 509.8	R 524.7	R 538.0	R 544.6	R 549.7	R 561.8	R 577.0	R 587.3	R 591.3	R 610.3
Rhode Island	R 40.1	R 41.9	43.2	R 45.3	45.9	47.6	R 49.3	51.6	52.3	53.5	R 52.0
South Carolina	R 135.0	R 139.9	R 146.3	R 150.4	151.1	154.7	160.1	162.2	166.6	170.3	R 174.8
South Dakota	25.0	26.5	27.5	29.4	R 29.6	R 32.8	R 33.4	R 34.4	R 35.8	R 36.4	R 38.2
Tennessee	R 210.7	R 223.9	R 230.7	R 233.7	R 232.8	240.5	R 247.2	R 259.2	264.7	R 271.3	R 268.7
Texas	R 872.6	R 927.7	R 964.0	R 998.1	R 1,021.7	R 1,042.4	R 1,048.2	R 1,104.0	R 1,132.6	R 1,209.0	R 1,273.9
Utah	80.7	85.7	89.3	R 92.6	R 94.1	R 95.9	97.6	R 102.8	R 109.3	R 118.6	124.5
Vermont	R 20.1	20.7	21.8	23.0	23.7	24.5	25.3	26.6	26.9	27.1	26.8
Virginia	R 298.7	R 315.0	R 331.1	R 347.0	R 358.9	362.3	R 376.2	R 393.8	R 415.6	R 423.5	R 426.9
Washington	R 271.5	R 288.4	R 309.9	R 312.6	R 305.5	310.3	R 315.7	R 321.9	R 343.1	R 356.9	R 378.3
West Virginia	59.2	R 60.1	R 62.1	R 62.0	62.0	62.8	R 62.9	63.7	R 65.6	R 66.5	66.5
Wisconsin	R 209.5	R 217.4	R 226.4	R 233.2	R 236.2	R 241.1	R 247.8	R 255.9	R 262.1	R 266.7	R 268.1
Wyoming	25.2	25.8	26.8	27.7	R 29.3	29.9	30.6	R 31.6	R 33.2	R 37.6	40.3
United States	11,521.9	12,038.3	12,610.5	13,131.0	13,262.1	13,493.1	13,879.1	14,406.4	14,912.5	15,338.3	15,626.0

Where shown, R = Revised data.
Source: See first page of this appendix.

Table D2. Real Gross Domestic Product by State, 2008-2019
(Billion Chained (2012) Dollars)

State	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Alabama	185.3	R 178.9	R 183.0	R 185.7	R 186.6	R 188.8	R 187.6	R 189.4	R 191.5	R 193.7	R 198.1	200.8
Alaska	50.9	R 55.9	54.2	R 54.7	57.7	R 54.7	R 53.5	R 54.0	R 53.3	R 52.8	R 52.9	53.3
Arizona	R 277.4	R 254.9	R 257.4	R 263.1	R 268.1	R 270.0	R 274.1	R 281.9	R 291.3	R 302.1	R 314.0	323.6
Arkansas	R 105.9	102.5	R 105.2	R 107.3	R 107.7	R 110.3	R 111.7	R 112.9	R 113.5	R 115.0	R 116.7	117.4
California	R 2,110.6	R 2,025.6	R 2,057.0	R 2,090.8	R 2,144.1	R 2,219.6	R 2,316.3	R 2,437.4	R 2,519.1	R 2,628.3	R 2,709.0	2,800.5
Colorado	R 268.0	R 262.5	R 265.3	R 268.6	R 273.6	R 282.6	R 294.8	R 308.9	R 315.8	R 328.5	R 342.9	356.3
Connecticut	R 259.4	R 248.6	R 247.9	R 242.3	R 244.1	R 238.6	R 237.7	R 245.3	R 246.0	R 248.1	R 249.0	251.3
Delaware	R 58.6	R 60.8	R 60.6	R 62.5	R 61.9	R 59.5	R 64.1	R 66.5	R 62.9	R 61.9	R 63.2	64.3
District of Columbia	R 106.8	106.4	R 109.9	R 111.9	R 112.6	R 112.8	R 114.8	R 117.0	R 119.4	R 120.2	R 122.7	123.9
Florida	R 803.6	R 759.4	R 766.7	R 763.5	R 768.7	R 784.2	R 806.0	R 842.3	R 871.0	R 901.9	R 936.6	963.3
Georgia	R 442.3	R 425.2	R 430.7	R 438.1	R 443.6	R 449.8	R 465.1	R 484.4	R 500.9	R 519.5	R 538.7	547.4
Hawaii	71.7	69.1	R 71.1	R 72.2	R 73.7	74.3	74.5	77.2	R 79.1	R 81.0	R 82.2	82.5
Idaho	59.7	57.1	R 58.0	57.8	57.8	R 60.0	R 61.7	R 63.2	R 65.6	R 68.4	R 72.5	74.9
Illinois	R 701.8	R 683.4	R 694.0	R 706.7	R 720.9	R 719.9	R 735.9	R 747.7	R 746.4	R 752.5	R 769.6	773.1
Indiana	R 298.6	R 277.8	R 295.5	R 296.7	R 297.8	R 304.0	R 313.8	R 311.9	R 316.5	R 323.0	R 332.2	337.6
Iowa	R 149.7	R 146.2	R 150.1	R 152.2	R 157.8	R 157.9	R 165.6	R 170.5	R 169.5	R 169.0	R 172.8	173.5
Kansas	R 138.8	R 133.7	R 135.2	R 138.8	R 140.8	R 140.4	R 144.1	R 147.9	R 152.5	R 154.5	R 158.2	160.1
Kentucky	172.2	R 165.3	R 172.3	R 174.2	176.3	R 179.5	R 179.9	R 182.5	R 183.5	R 184.6	R 187.5	190.8
Louisiana	R 235.5	R 238.9	R 247.9	R 234.3	R 233.5	R 226.3	R 232.7	R 230.4	R 225.4	R 228.8	R 235.0	240.0
Maine	53.9	53.1	53.8	53.1	52.9	52.5	53.4	R 53.9	R 55.1	R 56.0	R 57.3	58.8
Maryland	R 315.7	R 314.7	R 327.1	R 334.0	R 334.6	R 334.4	R 340.0	R 349.1	R 360.0	R 365.9	R 368.8	374.0
Massachusetts	R 412.2	408.1	R 425.0	R 435.2	R 444.5	R 446.2	R 453.8	R 472.0	R 479.2	R 490.9	R 507.8	520.0
Michigan	R 416.6	R 380.0	R 400.9	R 411.4	R 418.7	R 425.3	R 430.9	R 442.3	R 451.0	R 457.3	R 467.8	471.6
Minnesota	R 286.1	R 276.0	R 285.7	R 296.3	R 296.3	R 303.2	R 312.1	R 316.9	R 322.0	R 327.7	R 337.2	341.0
Mississippi	R 104.5	R 99.8	100.0	R 98.8	99.6	R 99.5	R 99.5	R 100.0	R 100.4	R 101.1	R 102.1	102.7
Missouri	R 271.7	R 264.9	R 269.1	R 266.3	R 268.9	R 271.5	R 272.8	R 276.3	R 276.2	R 279.3	R 284.7	287.7
Montana	R 40.1	R 39.4	R 40.6	41.5	42.0	42.4	R 43.3	R 45.0	R 44.6	R 45.5	R 46.6	47.9
Nebraska	R 94.1	R 94.3	R 97.8	R 102.7	R 102.6	R 104.0	R 107.4	R 110.8	R 111.6	R 113.8	R 115.1	117.4
Nevada	R 138.6	R 127.1	R 128.9	129.7	R 127.8	128.3	R 129.4	R 134.9	R 138.6	R 143.6	R 149.7	153.7
New Hampshire	65.0	64.4	R 66.5	R 66.9	R 67.6	R 68.1	69.5	R 71.4	R 73.0	R 74.3	R 76.2	77.2
New Jersey	R 532.7	R 510.8	R 516.4	R 510.8	R 519.6	R 526.9	R 524.4	535.3	R 540.4	R 540.7	R 549.0	556.7
New Mexico	R 85.9	R 87.6	R 87.1	87.2	87.6	R 86.6	R 89.4	R 91.7	R 91.7	R 91.8	R 93.9	98.8
New York	R 1,177.9	R 1,221.3	R 1,268.0	R 1,270.5	R 1,323.4	R 1,325.5	R 1,347.6	1,372.2	R 1,397.7	R 1,424.9	R 1,467.1	1,490.7
North Carolina	R 446.6	R 427.5	R 433.9	R 438.4	R 439.5	R 445.1	R 455.3	469.5	R 477.5	R 489.0	R 502.0	511.5
North Dakota	R 34.3	R 35.3	R 38.0	R 42.2	R 51.6	R 52.4	R 56.6	R 55.1	R 51.1	R 51.3	R 53.5	53.9
Ohio	R 533.1	R 506.7	R 520.3	R 536.6	R 540.9	R 550.7	R 571.4	R 579.9	R 585.0	R 592.7	R 606.1	615.5
Oklahoma	161.4	R 159.4	R 159.5	165.2	R 173.2	R 176.9	R 186.3	R 193.2	R 188.1	R 188.2	R 193.2	197.9
Oregon	R 173.8	R 166.6	R 169.0	173.9	R 174.4	175.8	R 181.8	R 191.9	R 201.1	R 209.6	R 219.3	225.3
Pennsylvania	R 623.1	R 605.0	R 622.1	R 630.9	R 640.7	R 650.8	R 666.6	R 682.5	R 691.3	R 695.6	R 708.9	726.2
Rhode Island	50.4	50.2	R 51.4	51.3	51.6	R 51.7	R 52.0	R 53.0	R 53.0	R 52.7	R 53.1	53.7
South Carolina	174.6	R 166.9	170.2	174.1	R 175.3	R 178.8	183.6	R 190.3	R 196.5	R 202.6	R 209.0	214.9
South Dakota	R 39.5	R 39.9	R 40.4	R 42.9	R 43.6	R 43.7	R 44.4	45.4	45.7	R 46.0	R 47.3	47.6
Tennessee	R 271.9	R 262.8	R 266.5	R 274.6	R 283.5	R 287.3	291.7	R 303.0	R 308.2	R 314.8	R 323.3	328.4
Texas	R 1,274.7	R 1,271.0	R 1,301.8	R 1,343.7	R 1,410.4	R 1,470.5	R 1,518.6	R 1,596.0	R 1,606.6	R 1,651.3	R 1,715.2	1,764.4
Utah	R 123.4	R 121.0	R 123.5	R 127.2	R 128.8	R 132.2	R 136.3	R 141.6	R 147.6	R 154.0	R 162.6	168.8
Vermont	27.4	27.0	28.1	28.7	28.9	R 28.4	28.5	28.9	R 29.2	R 29.3	R 29.6	29.8
Virginia	R 427.1	R 426.2	R 438.0	R 442.3	R 445.1	446.6	R 448.8	R 455.8	R 460.2	R 468.1	R 478.8	489.2
Washington	R 382.3	R 372.8	R 381.5	R 388.1	R 400.6	R 411.5	R 426.5	R 446.6	R 464.0	R 489.4	R 524.5	548.7
West Virginia	R 67.8	67.6	R 68.5	R 69.6	R 69.3	R 70.1	R 69.7	R 70.3	R 69.3	R 69.7	R 71.9	72.3
Wisconsin	R 264.5	257.1	R 265.1	R 270.7	R 274.5	R 275.6	R 282.0	R 288.3	R 291.3	R 294.2	R 303.8	308.0
Wyoming	42.6	41.4	39.8	39.4	38.4	38.5	38.7	R 39.9	38.1	R 37.9	R 38.7	39.2
United States	15,604.7	15,208.8	15,598.8	15,840.7	16,197.0	16,495.4	16,912.0	R 17,432.2	R 17,730.5	R 18,144.1	R 18,687.8	19,091.7

Where shown, R = Revised data.
Source: See first page of this appendix.