

News Release

EMBARGOED UNTIL RELEASE AT 8:30 a.m. EST, Thursday, December 15, 2022

BEA 22-62

Technical: Eric Figueroa

301-278-9328

RPP@bea.gov

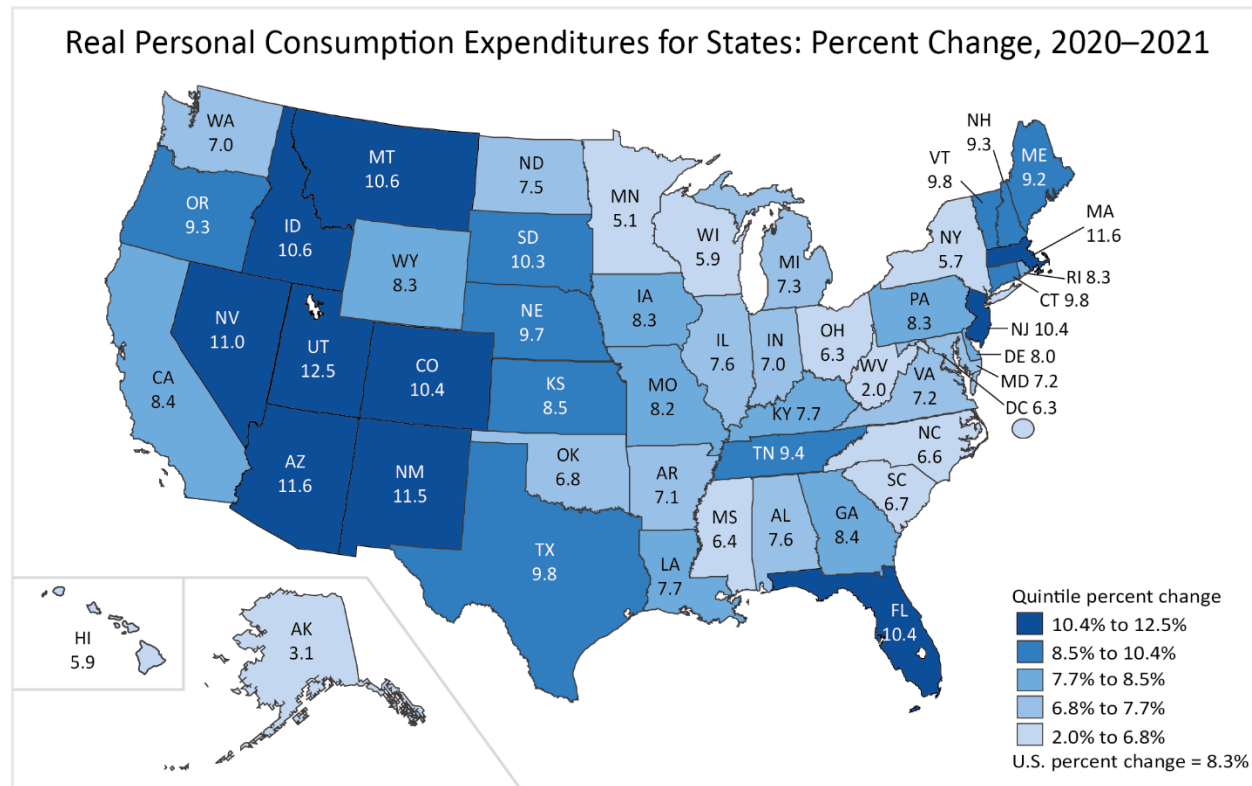
Media: Connie O’Connell

301-278-9003

Connie.OConnell@bea.gov

Real Personal Consumption Expenditures by State and Real Personal Income by State and Metropolitan Area, 2021

Real personal consumption expenditures (PCE) by state increased in all 50 states and the District of Columbia in 2021, according to statistics released today by the U.S. Bureau of Economic Analysis (BEA). The percent change in real PCE across all 50 states and the District of Columbia ranged from 12.5 percent in Utah to 2.0 percent in West Virginia (table 1).



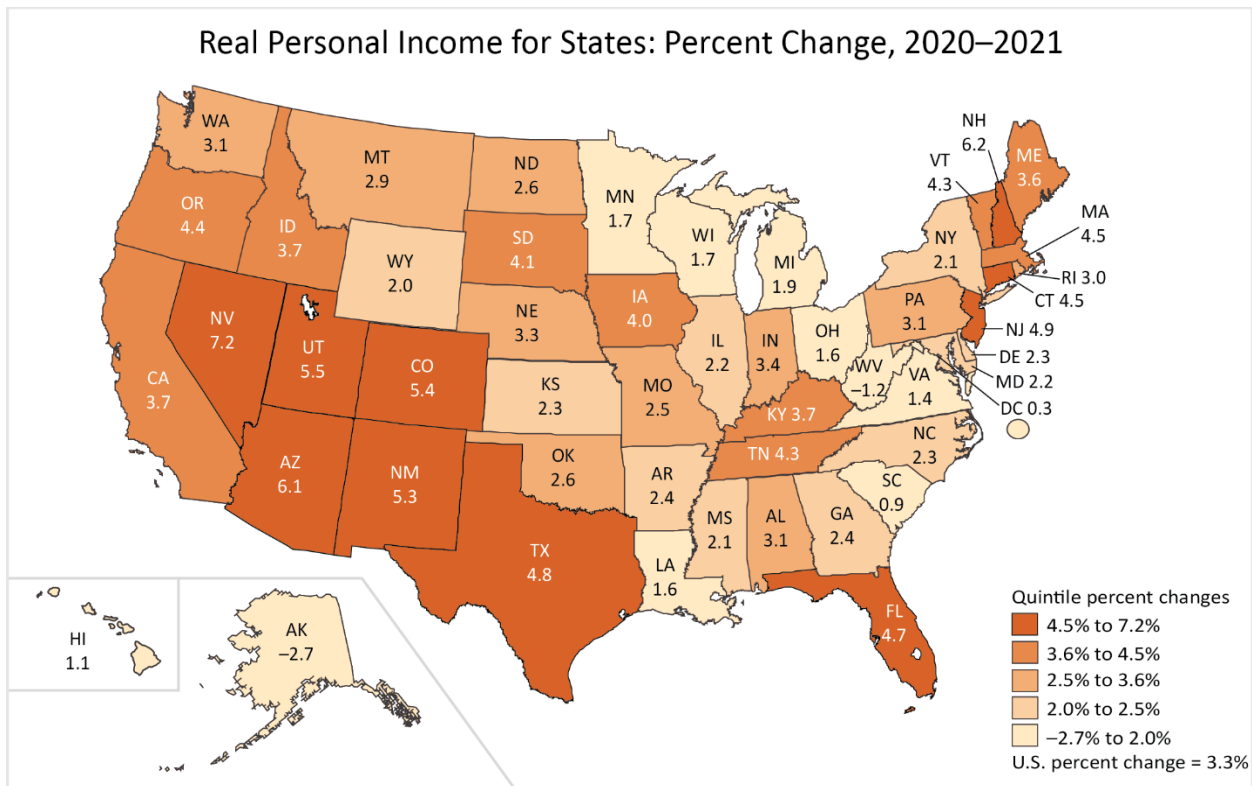
U.S. Bureau of Economic Analysis

Real PCE by state is a state's current-dollar PCE ([Consumer Spending by State](#)) adjusted by the state's regional price parity and the national PCE price index. In 2021, the national PCE price index increased 4.0 percent.

- Utah had the largest increase in real PCE, at 12.5 percent. Current-dollar PCE increased 16.3 percent while its implicit regional price deflator increased 3.4 percent (table 2).
- Massachusetts and Arizona had the second largest increase in real PCE, at 11.6 percent. Current-dollar PCE increased 13.4 percent and 13.1 percent in Massachusetts and Arizona, respectively. Their implicit regional price deflators increased 1.6 percent and 1.3 percent, respectively.
- West Virginia had the smallest increase in real PCE, at 2.0 percent. Current-dollar PCE increased 10.3 percent while its implicit regional price deflator increased 8.1 percent.

Real personal income

Real personal income increased in 48 states and the District of Columbia in 2021. The percent change in real personal income across all 50 states and the District of Columbia ranged from 7.2 percent in Nevada to -2.7 percent in Alaska (table 1).



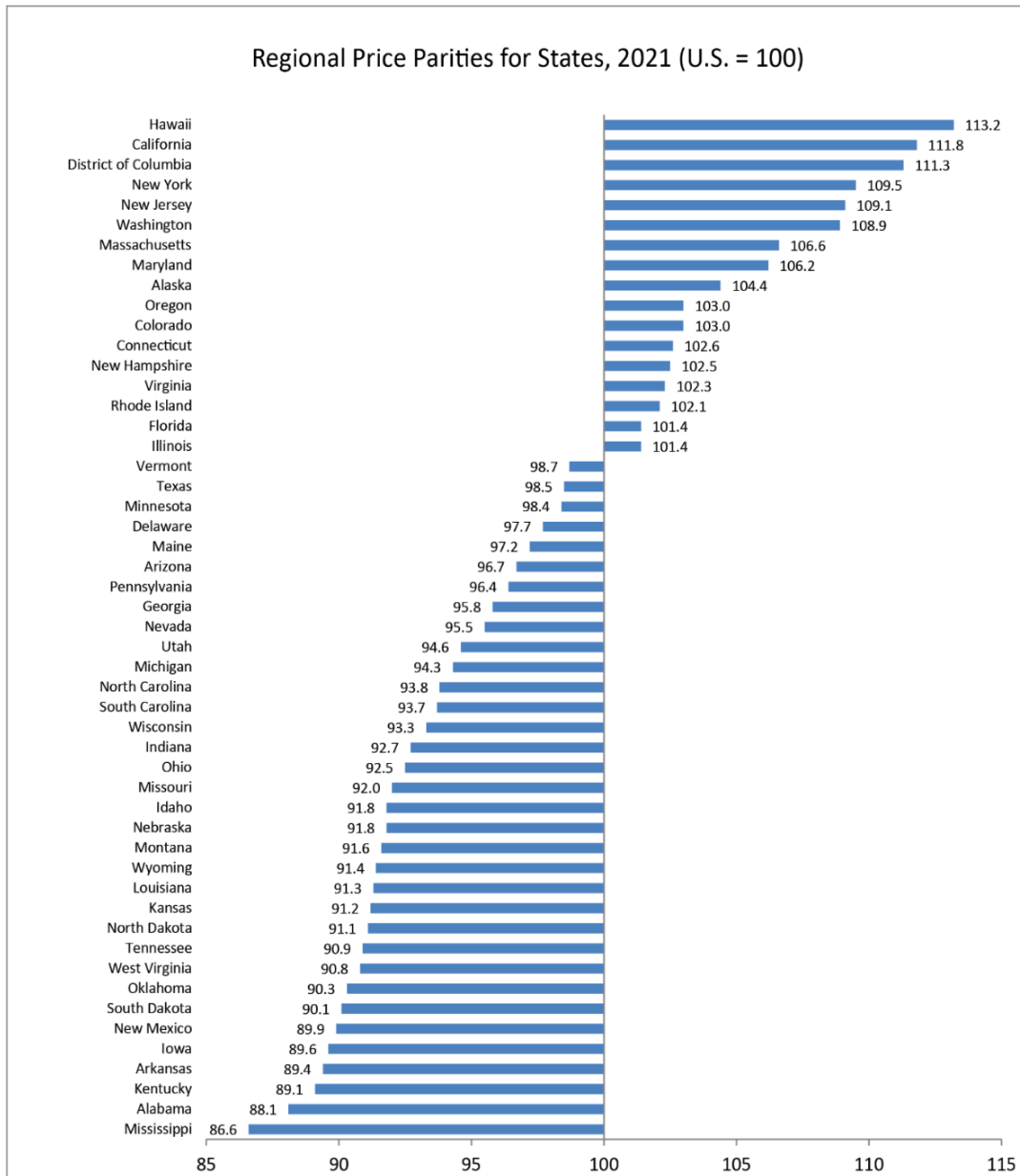
U.S. Bureau of Economic Analysis

- Nevada had the largest increase in real personal income, at 7.2 percent. Current-dollar personal income ([Personal Income by State](#)) increased 9.7 percent while its implicit regional price deflator increased 2.3 percent.

- Alaska had the largest decrease in real personal income, at 2.7 percent. Current-dollar personal income increased 4.9 percent while its implicit regional price deflator increased 7.8 percent.
- West Virginia was the only other state with a decrease in real personal income, at 1.2 percent. Current-dollar personal income increased 6.8 percent while its implicit regional price deflator increased 8.1 percent.

Regional price parities

Regional price parities (RPPs) measure the differences in price levels across states for a given year and are expressed as a percentage of the overall national price level.



U.S. Bureau of Economic Analysis

The all items RPP covers all consumption goods and services including housing rents. Areas with high/low RPPs typically correspond to areas with high/low price levels for rents.

- States with the highest RPPs were Hawaii, at 113.2, California, at 111.8, and New York, at 109.5; the RPP in the District of Columbia was 111.3 (table 2).
- States with the lowest RPPs were Mississippi, at 86.6, Alabama, at 88.1, and Kentucky, at 89.1.
- Across states, California had the highest RPP for housing rents, at 164.9, and Mississippi had the lowest, at 56.2; the RPP for housing rents in the District of Columbia was 175.4.

Annual update to regional real PCE and real personal income

The annual estimates of state real PCE for 2017 to 2020 and state and metropolitan area real personal income for 2014 to 2020 were revised. The updates incorporate revised source data that are more complete and more detailed than previously available. These include the results of the 2022 annual update of BEA's National and Regional Accounts.

BEA also released new estimates of state real per capita PCE statistics and real per capita personal income for 2021, along with revised estimates for 2010 to 2020. BEA used U.S. Census Bureau (Census) population figures to calculate per capita estimates for 2020 and 2021. For 2010 through 2019, BEA used intercensal population statistics that it developed based on Census methodology. See "[Note on Per Capita Personal Income and Population](#)."

Next release: December 14, 2023
Real Personal Consumption Expenditures by State and
Real Personal Income by State and Metropolitan Area, 2022

Technical Notes on Regional Price Parities and Implicit Regional Price Deflators

Price indexes commonly measure price changes over time. The BEA PCE price index and the Bureau of Labor Statistics Consumer Price Index (CPI) are two examples. Spatial price indexes measure price level differences across regions for one period. An example of these types of indexes are purchasing power parities, which measure differences in price levels across countries for a given period and can be used to convert estimates of per capita gross domestic product into comparable levels in a common currency. The RPP that BEA has developed compares regions within the United States, without the need for currency conversion. An implicit regional price deflator (IRPD) can be derived by combining the RPPs and the U.S. PCE price index.

Regional price parities. The RPPs are calculated using price quotes for a wide array of items from the CPI covering apparel, education, food, housing, medical, recreation, transportation, and other goods and services.¹ Data on housing rents are obtained separately from the Census American Community Survey (ACS). The expenditure weights for each category are constructed using BEA PCE and Census ACS housing rents expenditures.²

The CPI price levels and the ACS housing rents are combined with the expenditure weights using a multilateral aggregation method that expresses a region's price level relative to that of the United States.³

For example, if the RPP for area A is 120 and for area B is 90, then on average, price levels are 20 percent higher and 10 percent lower than the U.S. average for A and B, respectively. If the personal income for area A is \$12,000 and for area B is \$9,000, then RPP-adjusted incomes are \$10,000 (or \$12,000/1.20) and \$10,000 (or \$9,000/0.90), respectively. In other words, the purchasing power of the two incomes is equivalent when adjusted by their respective RPPs.

Implicit regional price deflator. The IRPD is a regional price index derived as the product of two terms: the RPP and the U.S. PCE price index.

The IRPD will equal current-dollar PCE divided by real PCE in constant dollars. The growth rate or year-to-year change in the IRPDs is a measure of regional inflation.⁴

For complete information on the data sources and estimating methods, see "[Regional Price Parities, Real Personal Consumption Expenditures, and Real Personal Income.](#)"

1. The BEA RPP statistics are based in part on restricted access CPI data from the Bureau of Labor Statistics (BLS). The BEA statistics presented herein are products of BEA and not BLS.

2. To estimate RPPs, annual average CPI price quotes and ACS housing rents are quality adjusted. The rents data are from the ACS Public Use Microdata Sample, and results incorporate BEA's new method for estimating housing services across the regional and national accounts. For more information, see the [May 2021 issue of the Survey of Current Business](#).

3. The multilateral system that is used is the Geary additive method. Any region or combination of regions may be used as the base or reference region without loss of consistency.

4. The growth rate of the IRPDs will not necessarily equal the region or metropolitan area price deflators published by BLS. This is because the CPI deflators are calculated directly, while the IRPDs are indirect estimates based on CPI and ACS price levels and PCE expenditure weights.

Additional Information

Resources

- The full economic effects of the COVID–19 pandemic cannot be quantified in these statistics, because the impacts are generally embedded in source data and cannot be separately identified. For more information about COVID–19 impacts, refer to “[Federal Recovery Programs and BEA Statistics](#)” on our website.
- Stay informed about BEA developments by reading [The BEA Wire](#), signing up for BEA’s [email subscription service](#), or following BEA on Twitter [@BEA_News](#).
- Historical time series for these estimates can be accessed in BEA’s [Interactive Data Application](#).
- Access BEA data by registering for BEA’s [Data Application Programming Interface](#).
- For more on BEA’s statistics, see our online journal, the [Survey of Current Business](#).
- For upcoming economic indicators, see BEA’s [news release schedule](#).
- For complete information on the data sources and estimating methods, see “[Regional Price Parities, Real Personal Consumption Expenditures, and Real Personal Income](#).”

Definitions

Regional price parities (RPPs) are regional price levels expressed as a percentage of the overall national price level for a given year. The price level is determined by the average prices paid by consumers for the mix of goods and services consumed in each region.

Detailed Consumer Price Index (CPI) price data are adjusted to obtain average price levels for the U.S. Bureau of Labor Statistics areas.¹ These are allocated to counties in combination with direct price and expenditure data on housing rents from the American Community Survey.

County data are then aggregated to states and metropolitan areas.

Personal consumption expenditures (PCE) at RPPs is current-dollar PCE divided by the price parity² for a given year and region.

Real PCE is PCE at RPPs divided by the national PCE price index. The result is real PCE in constant dollars (using 2012 as the reference year). Using Nebraska in 2021 as an example:

(1)	(2)	(3)
PCE is divided by the RPP	PCE at RPPs is deflated by the U.S. PCE price index	2021 Nebraska real PCE
\$90.7 / 0.918 = \$98.8	\$98.8 / 1.156 = \$85.5	\$85.5

Note. Dollar amounts are in billions.

Total real PCE in the United States is derived as the sum of the regional estimates and net expenditures abroad by U.S. residents divided by the U.S. PCE price index.

Personal income at RPPs is current-dollar personal income divided by the price parity for a given year and region. A balancing factor is applied so that the sum of personal income at RPPs across regions equals the current-dollar sum.

Real personal income is personal income at RPPs divided by the national PCE price index. The result is real personal income in constant dollars (using 2012 as the reference year).

Estimates of real personal income in the United States are derived as the sum of the regional estimates divided by the U.S. PCE price index.

Implicit regional price deflator is the product of the RPP times the national PCE price index. It is equal to current-dollar PCE divided by real PCE.

1. The CPI represents about 93 percent of the total U.S. population, including almost all residents of urban or metropolitan areas.

2. RPP should first be divided by 100.

News Release Tables

Table 1. Real Personal Consumption Expenditures and Real Personal Income, by State, 2020–2021

Table 2. Regional Price Parities and Implicit Regional Price Deflators, by State, 2021

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

Table 1. Real Personal Consumption Expenditures and Real Personal Income, by State, 2020–2021

	Real personal consumption expenditures (millions of constant (2012) dollars)			Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change	2020	2021	Percent change
United States¹	12,700,723	13,754,090	8.3	17,825,584	18,412,541	3.3
Alabama	182,200	196,127	7.6	239,485	246,874	3.1
Alaska	31,986	32,966	3.1	41,162	40,052	-2.7
Arizona	261,631	291,985	11.6	341,319	362,114	6.1
Arkansas	106,700	114,240	7.1	145,094	148,569	2.4
California	1,486,155	1,611,324	8.4	2,250,420	2,332,658	3.7
Colorado	235,846	260,465	10.4	328,502	346,082	5.4
Connecticut	154,420	169,605	9.8	243,003	253,920	4.5
Delaware	42,042	45,412	8.0	52,229	53,406	2.3
District of Columbia	38,602	41,045	6.3	50,237	50,398	0.3
Florida	853,048	941,447	10.4	1,107,489	1,160,014	4.7
Georgia	390,984	424,022	8.4	533,033	545,636	2.4
Hawaii	51,115	54,127	5.9	66,554	67,312	1.1
Idaho	64,395	71,190	10.6	90,743	94,097	3.7
Illinois	497,667	535,572	7.6	712,987	728,883	2.2
Indiana	253,202	271,024	7.0	348,012	359,702	3.4
Iowa	118,925	128,752	8.3	169,973	176,780	4.0
Kansas	110,676	120,137	8.5	160,786	164,557	2.3
Kentucky	165,863	178,612	7.7	216,980	225,019	3.7
Louisiana	172,000	185,316	7.7	234,480	238,269	1.6
Maine	56,513	61,732	9.2	69,103	71,622	3.6
Maryland	227,839	244,214	7.2	343,877	351,519	2.2
Massachusetts	297,282	331,844	11.6	455,315	475,687	4.5
Michigan	392,014	420,483	7.3	513,048	522,601	1.9
Minnesota	231,905	243,822	5.1	327,803	333,418	1.7
Mississippi	100,958	107,372	6.4	132,800	135,580	2.1
Missouri	240,966	260,823	8.2	313,874	321,702	2.5
Montana	45,180	49,948	10.6	57,877	59,578	2.9
Nebraska	77,910	85,502	9.7	109,953	113,636	3.3
Nevada	114,909	127,591	11.0	160,354	171,884	7.2
New Hampshire	60,802	66,480	9.3	80,981	86,042	6.2
New Jersey	363,999	401,858	10.4	541,200	567,509	4.9
New Mexico	73,040	81,474	11.5	97,530	102,712	5.3
New York	789,404	834,352	5.7	1,182,584	1,207,419	2.1
North Carolina	401,049	427,646	6.6	535,676	548,116	2.3
North Dakota	32,987	35,448	7.5	46,389	47,613	2.6
Ohio	456,882	485,840	6.3	618,686	628,660	1.6
Oklahoma	138,225	147,633	6.8	201,107	206,387	2.6
Oregon	155,827	170,303	9.3	211,001	220,212	4.4
Pennsylvania	526,948	570,570	8.3	727,607	750,119	3.1
Rhode Island	40,194	43,544	8.3	58,170	59,937	3.0
South Carolina	194,492	207,503	6.7	249,793	252,155	0.9
South Dakota	37,168	41,011	10.3	53,347	55,542	4.1
Tennessee	257,744	281,997	9.4	361,140	376,695	4.3
Texas	1,064,977	1,169,659	9.8	1,484,887	1,556,765	4.8
Utah	115,765	130,179	12.5	162,511	171,487	5.5
Vermont	26,167	28,727	9.8	33,687	35,127	4.3
Virginia	329,026	352,616	7.2	479,242	486,026	1.4
Washington	297,348	318,114	7.0	441,320	454,854	3.1
West Virginia	68,523	69,921	2.0	83,651	82,629	-1.2
Wisconsin	233,021	246,727	5.9	321,085	326,703	1.7
Wyoming	24,182	26,193	8.3	37,498	38,264	2.0
Maximum	1,486,155	1,611,324	12.5	2,250,420	2,332,658	7.2
Minimum	24,182	26,193	2.0	33,687	35,127	-2.7
Range	1,461,973	1,585,131	10.5	2,216,733	2,297,531	9.9

1. The U.S. real personal consumption expenditures include net expenditures abroad by U.S. residents, but state estimates do not.

Note. Estimates may not add to totals because of rounding.

U.S. Bureau of Economic Analysis

Table 2. Regional Price Parities and Implicit Regional Price Deflators, by State, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
United States²	100.0	99.6	100.4	97.7	100.3	115.6	4.0
Alabama	88.1	94.1	60.7	86.7	96.1	101.9	4.8
Alaska	104.4	108.6	102.9	118.9	102.2	120.8	7.8
Arizona	96.7	95.3	102.4	87.5	96.6	111.8	1.3
Arkansas	89.4	95.7	59.5	82.8	97.5	103.4	5.3
California	111.8	108.0	164.9	143.6	102.1	129.3	3.9
Colorado	103.0	101.8	129.5	85.4	97.2	119.1	3.2
Connecticut	102.6	97.0	120.9	146.6	100.6	118.6	1.7
Delaware	97.7	94.5	97.1	94.0	100.4	112.9	5.2
District of Columbia	111.3	107.9	175.4	111.8	102.7	128.7	4.0
Florida	101.4	98.3	113.1	89.8	100.6	117.3	4.8
Georgia	95.8	96.6	85.5	95.5	98.9	110.7	5.5
Hawaii	113.2	110.6	140.8	184.7	104.4	130.9	4.5
Idaho	91.8	96.8	84.2	68.5	92.2	106.1	5.0
Illinois	101.4	104.0	96.2	86.2	102.0	117.3	4.9
Indiana	92.7	96.2	71.4	90.8	98.3	107.2	5.0
Iowa	89.6	94.1	66.3	98.5	95.2	103.6	3.2
Kansas	91.2	94.0	69.8	100.8	96.4	105.4	2.8
Kentucky	89.1	94.2	63.4	79.8	96.5	103.0	4.1
Louisiana	91.3	95.4	66.9	80.6	99.3	105.5	4.4
Maine	97.2	98.9	81.2	126.9	101.5	112.4	3.5
Maryland	106.2	103.7	124.2	105.1	102.7	122.8	3.8
Massachusetts	106.6	105.3	129.0	154.2	100.9	123.2	1.6
Michigan	94.3	94.8	80.7	101.0	98.3	109.0	3.7
Minnesota	98.4	100.5	93.1	91.6	99.1	113.8	4.7
Mississippi	86.6	94.5	56.2	80.6	94.7	100.1	4.9
Missouri	92.0	98.4	70.1	91.6	95.4	106.4	3.8
Montana	91.6	96.8	79.3	75.1	92.9	105.9	3.9
Nebraska	91.8	94.3	75.7	85.4	95.8	106.1	3.2
Nevada	95.5	97.0	107.9	76.3	91.6	110.5	2.3
New Hampshire	102.5	102.0	107.1	140.4	100.6	118.5	1.3
New Jersey	109.1	101.9	135.1	115.2	107.5	126.1	2.6
New Mexico	89.9	96.9	73.0	81.6	92.1	104.0	2.1
New York	109.5	102.0	131.6	136.1	107.9	126.6	3.5
North Carolina	93.8	96.1	76.0	84.5	99.7	108.5	6.7
North Dakota	91.1	94.2	71.1	87.1	95.2	105.3	2.7
Ohio	92.5	95.0	72.8	91.9	97.4	106.9	4.4
Oklahoma	90.3	95.8	64.0	79.6	98.2	104.4	4.5
Oregon	103.0	106.3	109.4	97.0	99.0	119.1	3.6
Pennsylvania	96.4	95.5	86.7	106.0	99.5	111.4	2.5
Rhode Island	102.1	98.0	109.1	145.9	101.4	118.0	4.2
South Carolina	93.7	96.0	76.1	90.6	99.9	108.3	7.1
South Dakota	90.1	93.9	64.9	93.9	95.5	104.2	3.4
Tennessee	90.9	94.4	76.4	76.0	94.8	105.0	4.4
Texas	98.5	98.6	95.6	85.9	100.2	113.9	3.8
Utah	94.6	96.5	99.4	71.7	92.7	109.4	3.4
Vermont	98.7	97.9	93.6	129.7	100.1	114.1	0.5
Virginia	102.3	101.5	110.2	91.9	101.0	118.3	5.2
Washington	108.9	111.5	125.7	92.4	103.3	125.9	5.0
West Virginia	90.8	96.6	59.1	85.4	100.2	104.9	8.1
Wisconsin	93.3	95.7	76.2	95.6	97.8	107.9	4.8
Wyoming	91.4	96.5	77.3	76.3	93.8	105.7	4.0
Maximum	113.2	111.5	175.4	184.7	107.9	130.9	8.1
Minimum	86.6	93.9	56.2	68.5	91.6	100.1	0.5
Range	26.6	17.6	119.2	116.2	16.4	30.8	7.6

1. The implicit price deflator for the United States is equal to the national personal consumption expenditures price index, with a base of 2012.

2. The U.S. all items regional price parities is the average price level across all states and the District of Columbia.

U.S. Bureau of Economic Analysis

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
United States	17,825,584	18,412,541	3.3
Nonmetropolitan portion	2,153,694	2,214,227	2.8
Metropolitan Statistical Areas			
Abilene, TX	8,684	9,294	7.0
Akron, OH	37,335	38,084	2.0
Albany, GA	6,721	6,549	-2.6
Albany-Lebanon, OR	5,481	5,835	6.5
Albany-Schenectady-Troy, NY	52,271	53,378	2.1
Albuquerque, NM	42,756	45,161	5.6
Alexandria, LA	7,617	7,607	-0.1
Allentown-Bethlehem-Easton, PA-NJ	45,500	47,852	5.2
Altoona, PA	6,273	6,430	2.5
Amarillo, TX	13,510	14,043	3.9
Ames, IA	5,692	5,921	4.0
Anchorage, AK	22,525	21,859	-3.0
Ann Arbor, MI	21,973	22,084	0.5
Anniston-Oxford, AL	4,850	5,119	5.6
Appleton, WI	13,140	13,223	0.6
Asheville, NC	23,144	23,744	2.6
Athens-Clarke County, GA	9,716	9,677	-0.4
Atlanta-Sandy Springs-Alpharetta, GA	329,227	340,249	3.3
Atlantic City-Hammonton, NJ	13,568	14,326	5.6
Auburn-Opelika, AL	7,388	7,721	4.5
Augusta-Richmond County, GA-SC	28,862	28,746	-0.4
Austin-Round Rock-Georgetown, TX	133,336	145,709	9.3
Bakersfield, CA	35,989	36,280	0.8
Baltimore-Columbia-Towson, MD	161,714	165,420	2.3
Bangor, ME	6,721	6,924	3.0
Barnstable Town, MA	16,179	16,598	2.6
Baton Rouge, LA	44,833	45,813	2.2
Battle Creek, MI	5,976	6,129	2.6
Bay City, MI	4,993	4,916	-1.5
Beaumont-Port Arthur, TX	18,538	18,030	-2.7
Beckley, WV	5,304	5,119	-3.5
Bellingham, WA	10,880	11,030	1.4
Bend, OR	10,995	11,724	6.6
Billings, MT	10,254	10,480	2.2
Binghamton, NY	11,066	11,542	4.3
Birmingham-Hoover, AL	60,442	62,937	4.1
Bismarck, ND	7,878	7,942	0.8
Blacksburg-Christiansburg, VA	6,810	6,990	2.7
Bloomington, IL	9,171	9,326	1.7
Bloomington, IN	7,513	7,724	2.8
Bloomsburg-Berwick, PA	4,116	4,277	3.9
Boise City, ID	38,758	40,822	5.3
Boston-Cambridge-Newton, MA-NH	341,401	357,940	4.8
Boulder, CO	24,397	25,301	3.7
Bowling Green, KY	7,387	7,758	5.0
Bremerton-Silverdale-Port Orchard, WA	14,699	15,584	6.0
Bridgeport-Stamford-Norwalk, CT	95,022	100,334	5.6
Brownsville-Harlingen, TX	15,181	15,738	3.7
Brunswick, GA	5,565	5,642	1.4
Buffalo-Cheektowaga, NY	60,640	60,275	-0.6
Burlington, NC	7,675	8,110	5.7
Burlington-South Burlington, VT	12,124	12,476	2.9
California-Lexington Park, MD	6,484	6,777	4.5
Canton-Massillon, OH	19,909	20,147	1.2
Cape Coral-Fort Myers, FL	41,740	43,037	3.1
Cape Girardeau, MO-IL	4,552	4,641	1.9

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Carbondale-Marion, IL	6,240	6,484	3.9
Carson City, NV	3,090	3,288	6.4
Casper, WY	5,228	5,306	1.5
Cedar Rapids, IA	15,347	15,379	0.2
Chambersburg-Waynesboro, PA	7,698	7,861	2.1
Champaign-Urbana, IL	11,162	11,441	2.5
Charleston, WV	12,937	12,608	-2.5
Charleston-North Charleston, SC	42,024	43,257	2.9
Charlotte-Concord-Gastonia, NC-SC	147,642	150,651	2.0
Charlottesville, VA	14,662	14,859	1.3
Chattanooga, TN-GA	28,574	29,445	3.0
Cheyenne, WY	5,469	5,531	1.1
Chicago-Naperville-Elgin, IL-IN-WI	550,683	563,880	2.4
Chico, CA	9,559	9,649	0.9
Cincinnati, OH-KY-IN	128,996	131,269	1.8
Clarksville, TN-KY	14,585	14,957	2.5
Cleveland, TN	5,563	5,730	3.0
Cleveland-Elyria, OH	117,041	118,509	1.3
Coeur d'Alene, ID	8,572	9,057	5.7
College Station-Bryan, TX	11,317	11,870	4.9
Colorado Springs, CO	37,963	40,169	5.8
Columbia, MO	10,617	11,076	4.3
Columbia, SC	41,615	41,557	-0.1
Columbus, GA-AL	15,008	15,130	0.8
Columbus, IN	4,665	4,759	2.0
Columbus, OH	115,569	117,660	1.8
Corpus Christi, TX	19,596	20,369	3.9
Corvallis, OR	4,236	4,436	4.7
Crestview-Fort Walton Beach-Destin, FL	16,472	16,995	3.2
Cumberland, MD-WV	4,386	4,282	-2.4
Dallas-Fort Worth-Arlington, TX	410,038	432,875	5.6
Dalton, GA	6,366	6,102	-4.2
Danville, IL	3,458	3,539	2.3
Daphne-Fairhope-Foley, AL	11,919	12,332	3.5
Davenport-Moline-Rock Island, IA-IL	19,912	20,371	2.3
Dayton-Kettering, OH	42,024	42,417	0.9
Decatur, AL	6,970	7,343	5.3
Decatur, IL	5,479	5,602	2.2
Deltona-Daytona Beach-Ormond Beach, FL	30,884	32,573	5.5
Denver-Aurora-Lakewood, CO	175,616	184,776	5.2
Des Moines-West Des Moines, IA	40,246	41,369	2.8
Detroit-Warren-Dearborn, MI	232,375	240,410	3.5
Dothan, AL	7,236	7,535	4.1
Dover, DE	8,166	8,408	3.0
Dubuque, IA	5,386	5,535	2.8
Duluth, MN-WI	15,978	15,271	-4.4
Durham-Chapel Hill, NC	36,452	37,489	2.8
East Stroudsburg, PA	7,619	7,977	4.7
Eau Claire, WI	8,706	8,973	3.1
El Centro, CA	7,514	7,776	3.5
Elizabethtown-Fort Knox, KY	7,440	7,786	4.7
Elkhart-Goshen, IN	10,101	11,247	11.3
Elmira, NY	3,889	3,977	2.2
El Paso, TX	34,470	35,784	3.8
Enid, OK	2,918	3,003	2.9
Erie, PA	13,117	13,364	1.9
Eugene-Springfield, OR	17,600	18,235	3.6
Evansville, IN-KY	16,752	17,102	2.1
Fairbanks, AK	5,410	5,216	-3.6

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Fargo, ND-MN	14,158	14,666	3.6
Farmington, NM	4,777	4,901	2.6
Fayetteville, NC	21,976	22,624	2.9
Fayetteville-Springdale-Rogers, AR	35,406	36,833	4.0
Flagstaff, AZ	7,298	7,501	2.8
Flint, MI	18,888	19,444	2.9
Florence, SC	9,715	9,619	-1.0
Florence-Muscle Shoals, AL	6,843	6,862	0.3
Fond du Lac, WI	5,477	5,540	1.1
Fort Collins, CO	19,835	20,643	4.1
Fort Smith, AR-OK	10,611	10,925	3.0
Fort Wayne, IN	21,308	21,774	2.2
Fresno, CA	43,361	44,558	2.8
Gadsden, AL	4,373	4,508	3.1
Gainesville, FL	15,616	15,661	0.3
Gainesville, GA	9,708	10,323	6.3
Gettysburg, PA	5,115	5,271	3.1
Glens Falls, NY	6,359	6,438	1.2
Goldsboro, NC	5,608	5,614	0.1
Grand Forks, ND-MN	5,635	5,812	3.2
Grand Island, NE	3,708	3,904	5.3
Grand Junction, CO	7,232	7,700	6.5
Grand Rapids-Kentwood, MI	56,887	56,528	-0.6
Grants Pass, OR	4,105	4,236	3.2
Great Falls, MT	4,458	4,525	1.5
Greeley, CO	16,078	17,474	8.7
Green Bay, WI	17,836	18,040	1.1
Greensboro-High Point, NC	37,455	37,788	0.9
Greenville, NC	8,683	8,873	2.2
Greenville-Anderson, SC	44,494	44,466	-0.1
Gulfport-Biloxi, MS	17,594	18,102	2.9
Hagerstown-Martinsburg, MD-WV	13,668	13,891	1.6
Hammond, LA	6,164	6,247	1.3
Hanford-Corcoran, CA	5,700	5,835	2.4
Harrisburg-Carlisle, PA	32,015	32,124	0.3
Harrisonburg, VA	5,870	5,919	0.8
Hartford-East Hartford-Middletown, CT	70,659	72,364	2.4
Hattiesburg, MS	7,549	7,553	0.1
Hickory-Lenoir-Morganton, NC	16,910	17,299	2.3
Hilton Head Island-Bluffton, SC	13,090	12,893	-1.5
Hinesville, GA	3,128	3,153	0.8
Homosassa Springs, FL	6,547	6,590	0.7
Hot Springs, AR	4,602	4,579	-0.5
Houma-Thibodaux, LA	9,525	10,078	5.8
Houston-The Woodlands-Sugar Land, TX	394,333	406,757	3.2
Huntington-Ashland, WV-KY-OH	16,533	16,610	0.5
Huntsville, AL	26,884	27,576	2.6
Idaho Falls, ID	8,174	8,591	5.1
Indianapolis-Carmel-Anderson, IN	124,515	127,872	2.7
Iowa City, IA	9,509	10,000	5.2
Ithaca, NY	4,552	4,583	0.7
Jackson, MI	6,928	7,037	1.6
Jackson, MS	29,247	29,784	1.8
Jackson, TN	8,740	8,946	2.4
Jacksonville, FL	83,253	85,358	2.5
Jacksonville, NC	9,821	10,151	3.4
Janesville-Beloit, WI	7,936	8,096	2.0
Jefferson City, MO	7,394	7,608	2.9
Johnson City, TN	9,471	9,991	5.5

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Johnstown, PA	6,375	6,555	2.8
Jonesboro, AR	5,877	5,976	1.7
Joplin, MO	7,733	7,977	3.2
Kahului-Wailuku-Lahaina, HI	7,192	7,451	3.6
Kalamazoo-Portage, MI	13,603	14,231	4.6
Kankakee, IL	5,111	5,337	4.4
Kansas City, MO-KS	121,131	125,206	3.4
Kennewick-Richland, WA	13,462	13,871	3.0
Killeen-Temple, TX	21,005	21,541	2.6
Kingsport-Bristol, TN-VA	14,584	14,756	1.2
Kingston, NY	9,193	9,611	4.5
Knoxville, TN	46,342	47,855	3.3
Kokomo, IN	3,775	3,763	-0.3
La Crosse-Onalaska, WI-MN	7,726	7,439	-3.7
Lafayette, LA	23,662	23,955	1.2
Lafayette-West Lafayette, IN	9,763	9,904	1.4
Lake Charles, LA	10,414	10,338	-0.7
Lake Havasu City-Kingman, AZ	8,521	8,719	2.3
Lakeland-Winter Haven, FL	28,912	29,630	2.5
Lancaster, PA	29,615	30,459	2.9
Lansing-East Lansing, MI	24,740	25,094	1.4
Laredo, TX	9,797	10,566	7.9
Las Cruces, NM	9,480	10,057	6.1
Las Vegas-Henderson-Paradise, NV	112,573	121,401	7.8
Lawrence, KS	5,632	5,781	2.6
Lawton, OK	6,074	6,051	-0.4
Lebanon, PA	7,129	7,238	1.5
Lewiston, ID-WA	3,336	3,396	1.8
Lewiston-Auburn, ME	4,649	5,104	9.8
Lexington-Fayette, KY	27,558	28,109	2.0
Lima, OH	4,875	4,991	2.4
Lincoln, NE	17,467	18,160	4.0
Little Rock-North Little Rock-Conway, AR	37,427	37,685	0.7
Logan, UT-ID	6,292	6,731	7.0
Longview, TX	12,823	13,169	2.7
Longview, WA	4,986	5,347	7.2
Los Angeles-Long Beach-Anaheim, CA	735,841	751,717	2.2
Louisville/Jefferson County, KY-IN	69,974	72,186	3.2
Lubbock, TX	14,694	15,343	4.4
Lynchburg, VA	11,954	11,819	-1.1
Macon-Bibb County, GA	10,835	10,890	0.5
Madera, CA	6,590	6,327	-4.0
Madison, WI	41,542	42,383	2.0
Manchester-Nashua, NH	24,460	25,895	5.9
Manhattan, KS	6,455	6,567	1.7
Mankato, MN	5,206	5,456	4.8
Mansfield, OH	5,516	5,689	3.1
McAllen-Edinburg-Mission, TX	27,963	30,051	7.5
Medford, OR	10,358	10,812	4.4
Memphis, TN-MS-AR	69,447	72,414	4.3
Merced, CA	11,304	11,551	2.2
Miami-Fort Lauderdale-Pompano Beach, FL	333,776	353,758	6.0
Michigan City-La Porte, IN	4,992	5,312	6.4
Midland, MI	4,966	4,906	-1.2
Midland, TX	18,057	19,276	6.8
Milwaukee-Waukesha, WI	90,993	93,601	2.9
Minneapolis-St. Paul-Bloomington, MN-WI	219,969	222,451	1.1
Missoula, MT	6,602	6,780	2.7
Mobile, AL	19,095	19,649	2.9

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Modesto, CA	23,700	24,410	3.0
Monroe, LA	9,821	9,647	-1.8
Monroe, MI	7,532	7,823	3.9
Montgomery, AL	18,392	18,650	1.4
Morgantown, WV	6,543	6,397	-2.2
Morristown, TN	6,307	6,537	3.7
Mount Vernon-Anacortes, WA	6,760	7,245	7.2
Muncie, IN	4,853	4,939	1.8
Muskegon, MI	7,495	7,770	3.7
Myrtle Beach-Conway-North Myrtle Beach, SC-NC	22,318	22,991	3.0
Napa, CA	9,153	9,561	4.5
Naples-Marco Island, FL	38,651	38,693	0.1
Nashville-Davidson--Murfreesboro--Franklin, TN	120,644	128,079	6.2
New Bern, NC	6,214	6,255	0.7
New Haven-Milford, CT	45,306	47,876	5.7
New Orleans-Metairie, LA	68,929	71,153	3.2
New York-Newark-Jersey City, NY-NJ-PA	1,238,462	1,275,291	3.0
Niles, MI	8,359	8,607	3.0
North Port-Sarasota-Bradenton, FL	49,869	52,149	4.6
Norwich-New London, CT	14,491	14,903	2.8
Ocala, FL	15,654	16,102	2.9
Ocean City, NJ	5,736	6,327	10.3
Odessa, TX	7,437	7,769	4.5
Ogden-Clearfield, UT	32,027	34,271	7.0
Oklahoma City, OK	74,648	77,118	3.3
Olympia-Lacey-Tumwater, WA	14,786	15,249	3.1
Omaha-Council Bluffs, NE-IA	55,838	57,865	3.6
Orlando-Kissimmee-Sanford, FL	118,256	124,340	5.1
Oshkosh-Neenah, WI	8,664	8,887	2.6
Owensboro, KY	5,644	6,006	6.4
Oxnard-Thousand Oaks-Ventura, CA	46,823	48,024	2.6
Palm Bay-Melbourne-Titusville, FL	29,363	30,013	2.2
Panama City, FL	8,388	8,673	3.4
Parkersburg-Vienna, WV	4,450	4,447	0.0
Pensacola-Ferry Pass-Brent, FL	24,063	24,588	2.2
Peoria, IL	21,149	21,314	0.8
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	376,586	394,530	4.8
Phoenix-Mesa-Chandler, AZ	234,587	252,474	7.6
Pine Bluff, AR	3,517	3,536	0.5
Pittsburgh, PA	138,466	141,153	1.9
Pittsfield, MA	7,211	7,574	5.0
Pocatello, ID	4,125	4,255	3.1
Portland-South Portland, ME	31,258	32,580	4.2
Portland-Vancouver-Hillsboro, OR-WA	135,537	141,497	4.4
Port St. Lucie, FL	27,675	29,561	6.8
Poughkeepsie-Newburgh-Middletown, NY	33,759	34,544	2.3
Prescott Valley-Prescott, AZ	10,831	10,976	1.3
Providence-Warwick, RI-MA	89,762	92,827	3.4
Provo-Orem, UT	30,350	31,965	5.3
Pueblo, CO	7,357	7,602	3.3
Punta Gorda, FL	8,422	9,078	7.8
Racine, WI	10,064	10,549	4.8
Raleigh-Cary, NC	82,902	85,607	3.3
Rapid City, SD	7,856	8,219	4.6
Reading, PA	22,138	22,436	1.3
Redding, CA	8,471	8,745	3.2
Reno, NV	29,610	31,701	7.1
Richmond, VA	76,636	77,290	0.9
Riverside-San Bernardino-Ontario, CA	185,632	192,882	3.9

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Roanoke, VA	15,882	15,703	-1.1
Rochester, MN	12,543	13,525	7.8
Rochester, NY	56,215	56,413	0.4
Rockford, IL	15,832	15,983	1.0
Rocky Mount, NC	6,925	6,926	0.0
Rome, GA	4,275	4,226	-1.1
Sacramento-Roseville-Folsom, CA	125,672	129,947	3.4
Saginaw, MI	8,937	8,900	-0.4
St. Cloud, MN	10,357	11,136	7.5
St. George, UT	7,746	8,315	7.3
St. Joseph, MO-KS	5,444	5,462	0.3
St. Louis, MO-IL	162,916	164,139	0.8
Salem, OR	18,760	19,703	5.0
Salinas, CA	21,883	22,048	0.8
Salisbury, MD-DE	21,954	22,091	0.6
Salt Lake City, UT	66,796	70,141	5.0
San Angelo, TX	6,568	6,945	5.7
San Antonio-New Braunfels, TX	120,218	125,744	4.6
San Diego-Chula Vista-Carlsbad, CA	175,280	179,973	2.7
San Francisco-Oakland-Berkeley, CA	396,169	414,394	4.6
San Jose-Sunnyvale-Santa Clara, CA	191,423	206,982	8.1
San Luis Obispo-Paso Robles, CA	14,559	15,087	3.6
Santa Cruz-Watsonville, CA	16,839	18,236	8.3
Santa Fe, NM	9,441	10,032	6.3
Santa Maria-Santa Barbara, CA	25,057	25,654	2.4
Santa Rosa-Petaluma, CA	29,015	31,120	7.3
Savannah, GA	19,970	19,986	0.1
Scranton-Wilkes-Barre, PA	27,536	28,117	2.1
Seattle-Tacoma-Bellevue, WA	265,036	271,399	2.4
Sebastian-Vero Beach, FL	13,569	13,768	1.5
Sebring-Avon Park, FL	4,050	4,141	2.3
Sheboygan, WI	6,315	6,402	1.4
Sherman-Denison, TX	6,409	6,759	5.5
Shreveport-Bossier City, LA	20,534	20,649	0.6
Sierra Vista-Douglas, AZ	5,992	6,097	1.7
Sioux City, IA-NE-SD	8,343	8,638	3.5
Sioux Falls, SD	18,168	18,831	3.6
South Bend-Mishawaka, IN-MI	16,180	17,165	6.1
Spartanburg, SC	15,875	15,922	0.3
Spokane-Spokane Valley, WA	26,385	27,811	5.4
Springfield, IL	10,925	11,172	2.3
Springfield, MA	36,744	37,980	3.4
Springfield, MO	22,177	22,830	2.9
Springfield, OH	6,167	6,476	5.0
State College, PA	7,651	7,854	2.7
Staunton, VA	6,237	6,108	-2.1
Stockton, CA	34,587	37,860	9.5
Sumter, SC	6,420	6,338	-1.3
Syracuse, NY	34,119	34,435	0.9
Tallahassee, FL	18,233	18,437	1.1
Tampa-St. Petersburg-Clearwater, FL	153,013	164,709	7.6
Terre Haute, IN	8,038	8,365	4.1
Texarkana, TX-AR	6,372	6,514	2.2
The Villages, FL	7,799	7,880	1.0
Toledo, OH	33,032	33,629	1.8
Topeka, KS	11,797	12,149	3.0
Trenton-Princeton, NJ	24,088	25,619	6.4
Tucson, AZ	50,339	52,040	3.4
Tulsa, OK	56,688	57,912	2.2

Table 3. Real Personal Income, by Metropolitan Area, 2020–2021

	Real personal income (millions of constant (2012) dollars)		
	2020	2021	Percent change
Tuscaloosa, AL	11,239	11,461	2.0
Twin Falls, ID	5,066	5,067	0.0
Tyler, TX	12,369	13,099	5.9
Urban Honolulu, HI	47,762	48,405	1.3
Utica-Rome, NY	13,898	14,373	3.4
Valdosta, GA	6,318	6,247	-1.1
Vallejo, CA	21,586	23,467	8.7
Victoria, TX	5,028	5,393	7.3
Vineland-Bridgeton, NJ	6,289	6,551	4.2
Virginia Beach-Norfolk-Newport News, VA-NC	89,973	90,808	0.9
Visalia, CA	19,666	20,081	2.1
Waco, TX	12,183	12,638	3.7
Walla Walla, WA	2,993	2,955	-1.3
Warner Robins, GA	8,476	8,874	4.7
Washington-Arlington-Alexandria, DC-VA-MD-WV	393,598	400,612	1.8
Waterloo-Cedar Falls, IA	8,421	8,782	4.3
Watertown-Fort Drum, NY	5,799	5,709	-1.5
Wausau-Weston, WI	9,094	9,133	0.4
Weirton-Steubenville, WV-OH	5,490	5,463	-0.5
Wenatchee, WA	5,858	6,025	2.8
Wheeling, WV-OH	6,821	6,794	-0.4
Wichita, KS	34,218	34,888	2.0
Wichita Falls, TX	6,918	7,227	4.5
Williamsport, PA	5,276	5,424	2.8
Wilmington, NC	14,411	14,478	0.5
Winchester, VA-WV	7,250	7,327	1.1
Winston-Salem, NC	33,439	34,289	2.5
Worcester, MA-CT	52,690	54,826	4.1
Yakima, WA	11,364	11,573	1.8
York-Hanover, PA	23,067	23,796	3.2
Youngstown-Warren-Boardman, OH-PA	26,044	26,137	0.4
Yuba City, CA	7,683	7,985	3.9
Yuma, AZ	8,875	8,891	0.2
Maximum	1,238,462	1,275,291	11.3
Minimum	2,918	2,955	-4.4
Range	1,235,543	1,272,336	15.7

Note. Estimates may not add to totals because of rounding.

U.S. Bureau of Economic Analysis

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
United States²	100.0	99.6	100.4	97.7	100.3	115.6	4.0
Nonmetropolitan portion	89.0	96.1	59.9	90.2	97.4	102.9	4.8
Metropolitan Statistical Areas							
Abilene, TX	92.0	96.2	71.0	84.9	98.6	106.4	5.8
Akron, OH	93.7	95.0	80.3	91.9	97.4	108.4	4.1
Albany, GA	89.4	95.7	56.6	89.9	99.5	103.3	11.0
Albany-Lebanon, OR	101.8	106.3	101.4	97.3	99.0	117.7	3.1
Albany-Schenectady-Troy, NY	99.2	95.9	100.1	132.9	100.1	114.6	3.9
Albuquerque, NM	92.3	96.9	84.4	81.0	92.1	106.7	2.1
Alexandria, LA	89.1	95.4	56.8	80.2	99.3	103.0	6.6
Allentown-Bethlehem-Easton, PA-NJ	98.3	96.0	96.2	108.1	100.1	113.7	2.3
Altoona, PA	89.6	96.1	55.8	109.3	100.2	103.6	3.6
Amarillo, TX	93.8	96.2	77.1	86.7	98.6	108.4	3.2
Ames, IA	91.3	94.1	72.3	98.2	95.2	105.5	2.1
Anchorage, AK	106.3	108.5	113.0	112.7	103.2	122.9	7.6
Ann Arbor, MI	99.8	95.0	121.7	105.0	97.9	115.3	5.1
Anniston-Oxford, AL	83.8	94.1	50.0	89.2	96.0	96.9	1.9
Appleton, WI	93.5	95.3	75.4	96.5	97.6	108.1	5.4
Asheville, NC	94.7	96.1	81.8	84.4	99.7	109.5	5.7
Athens-Clarke County, GA	94.4	95.7	79.6	90.6	99.5	109.2	8.8
Atlanta-Sandy Springs-Alpharetta, GA	99.1	97.2	105.6	99.8	98.7	114.6	4.5
Atlantic City-Hammonton, NJ	97.2	95.8	90.7	109.5	100.0	112.4	0.2
Auburn-Opelika, AL	89.7	94.1	70.8	85.8	96.0	103.7	4.7
Augusta-Richmond County, GA-SC	92.0	95.8	68.0	91.4	99.6	106.3	6.6
Austin-Round Rock-Georgetown, TX	100.0	96.2	122.5	85.5	98.6	115.7	2.9
Bakersfield, CA	100.9	106.8	92.2	144.5	98.8	116.7	4.4
Baltimore-Columbia-Towson, MD	105.0	100.7	120.9	102.4	103.3	121.4	3.8
Bangor, ME	96.7	98.9	77.6	127.5	101.5	111.8	3.5
Barnstable Town, MA	101.1	96.7	107.9	148.6	99.7	116.9	4.0
Baton Rouge, LA	93.2	95.4	75.4	80.5	99.3	107.7	4.1
Battle Creek, MI	90.6	95.0	62.1	101.1	97.9	104.7	3.8
Bay City, MI	91.7	95.0	67.6	101.7	97.9	106.0	7.3
Beaumont-Port Arthur, TX	93.3	96.2	74.2	85.6	98.6	107.9	7.5
Beckley, WV	89.0	96.2	55.4	84.9	100.1	102.9	10.8
Bellingham, WA	104.7	106.4	121.3	92.4	99.0	121.1	5.1
Bend, OR	102.7	106.3	106.7	97.3	99.0	118.8	2.2
Billings, MT	92.5	96.8	84.8	74.5	92.9	107.0	4.7
Binghamton, NY	94.6	95.9	74.1	132.6	100.1	109.4	1.2
Birmingham-Hoover, AL	90.9	94.1	72.1	86.0	96.0	105.0	3.0
Bismarck, ND	94.2	94.2	92.2	87.1	95.2	109.0	5.3
Blacksburg-Christiansburg, VA	92.2	96.0	72.7	86.1	99.6	106.6	5.4
Bloomington, IL	93.1	95.3	74.0	92.2	97.9	107.6	4.2
Bloomington, IN	94.1	95.3	83.1	92.8	97.7	108.8	4.7
Bloomsburg-Berwick, PA	89.8	96.1	53.6	108.9	100.2	103.8	1.9
Boise City, ID	93.9	96.6	97.3	68.1	92.1	108.5	4.3
Boston-Cambridge-Newton, MA-NH	109.7	109.4	146.8	156.5	101.2	126.8	1.3
Boulder, CO	101.3	96.5	166.3	78.5	91.7	117.1	3.5
Bowling Green, KY	88.4	94.1	62.1	80.2	96.2	102.3	3.0
Bremerton-Silverdale-Port Orchard, WA	103.7	106.4	115.9	89.7	99.0	119.9	2.2
Bridgeport-Stamford-Norwalk, CT	105.8	97.0	157.8	146.6	100.6	122.3	1.5
Brownsville-Harlingen, TX	88.4	96.2	55.7	84.6	98.6	102.2	7.8
Brunswick, GA	90.1	95.7	64.0	88.5	99.5	104.2	5.4
Buffalo-Cheektowaga, NY	95.1	95.9	76.1	129.1	100.1	110.0	4.7
Burlington, NC	89.6	96.1	62.5	86.0	99.7	103.6	3.7
Burlington-South Burlington, VT	102.6	97.9	119.0	129.5	100.1	118.7	1.9
California-Lexington Park, MD	96.4	96.0	88.2	93.7	99.5	111.5	2.2
Canton-Massillon, OH	90.0	95.0	60.8	91.7	97.4	104.1	5.2
Cape Coral-Fort Myers, FL	100.0	95.7	111.7	84.7	99.8	115.6	6.0
Cape Girardeau, MO-IL	88.6	94.2	59.8	91.8	95.4	102.4	3.6
Carbondale-Marion, IL	86.8	95.3	51.1	93.5	97.9	100.3	2.9
Carson City, NV	94.2	97.0	98.8	75.6	91.6	108.9	3.4

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Casper, WY	91.3	96.5	75.8	75.7	93.8	105.6	2.0
Cedar Rapids, IA	91.8	94.1	77.6	99.3	95.2	106.2	5.1
Chambersburg-Waynesboro, PA	95.2	96.1	76.1	107.5	100.2	110.0	4.8
Champaign-Urbana, IL	93.5	95.3	77.1	93.2	97.9	108.1	5.4
Charleston, WV	90.7	96.2	58.8	84.9	100.1	104.9	8.7
Charleston-North Charleston, SC	99.1	96.0	106.0	89.6	99.9	114.6	5.1
Charlotte-Concord-Gastonia, NC-SC	96.6	96.1	90.6	86.1	99.7	111.7	6.6
Charlottesville, VA	100.3	96.0	114.5	87.7	99.6	115.9	6.1
Chattanooga, TN-GA	90.2	94.1	73.4	77.9	94.9	104.3	4.2
Cheyenne, WY	92.9	96.5	86.6	76.3	93.8	107.4	5.7
Chicago-Naperville-Elgin, IL-IN-WI	105.4	106.6	113.4	82.9	103.8	121.9	4.8
Chico, CA	102.5	106.8	102.3	145.4	98.8	118.5	4.5
Cincinnati, OH-KY-IN	94.3	95.0	83.1	91.4	97.6	109.1	4.4
Clarksville, TN-KY	90.6	94.3	74.9	76.9	95.1	104.7	6.1
Cleveland, TN	88.0	94.4	62.2	75.8	94.8	101.8	5.6
Cleveland-Elyria, OH	94.2	95.0	82.8	92.1	97.4	108.9	4.6
Coeur d'Alene, ID	93.8	96.6	96.4	68.7	92.1	108.4	4.9
College Station-Bryan, TX	95.1	96.2	85.5	86.2	98.6	110.0	4.0
Colorado Springs, CO	96.8	96.5	119.7	79.6	91.7	112.0	2.1
Columbia, MO	89.5	94.2	64.4	91.9	95.4	103.5	2.1
Columbia, SC	93.3	96.0	74.8	90.2	99.9	107.9	7.9
Columbus, GA-AL	89.0	95.7	57.7	91.0	99.5	102.9	7.4
Columbus, IN	92.0	95.3	70.2	92.6	97.7	106.4	4.6
Columbus, OH	95.0	95.0	87.4	92.0	97.4	109.9	4.5
Corpus Christi, TX	94.8	96.2	84.8	84.2	98.6	109.6	3.8
Corvallis, OR	101.8	106.3	101.4	97.3	99.0	117.7	3.1
Crestview-Fort Walton Beach-Destin, FL	96.9	95.7	93.3	86.6	99.8	112.0	6.2
Cumberland, MD-WV	91.2	96.1	65.6	90.5	99.8	105.5	7.6
Dallas-Fort Worth-Arlington, TX	103.9	102.7	114.2	84.8	103.1	120.1	3.5
Dalton, GA	90.8	95.7	62.6	90.6	99.5	104.9	12.0
Danville, IL	88.3	95.3	54.6	92.3	97.9	102.1	5.9
Daphne-Fairhope-Foley, AL	92.1	94.1	80.5	84.9	96.0	106.5	5.6
Davenport-Moline-Rock Island, IA-IL	91.4	94.1	72.0	101.3	95.5	105.6	3.7
Dayton-Kettering, OH	92.5	95.0	73.3	92.1	97.4	107.0	4.7
Decatur, AL	86.3	94.1	49.8	86.9	96.0	99.7	3.1
Decatur, IL	89.8	95.3	60.6	93.0	97.9	103.8	5.5
Deltona-Daytona Beach-Ormond Beach, FL	97.8	95.7	99.2	85.0	99.8	113.1	5.2
Denver-Aurora-Lakewood, CO	109.2	106.6	146.2	93.1	102.1	126.2	3.7
Des Moines-West Des Moines, IA	93.3	94.1	85.0	100.4	95.2	107.9	3.6
Detroit-Warren-Dearborn, MI	96.1	94.5	90.3	101.4	98.8	111.1	1.6
Dothan, AL	86.2	94.1	52.4	86.2	96.0	99.7	3.8
Dover, DE	95.9	95.8	83.4	91.8	100.3	110.9	6.3
Dubuque, IA	87.9	94.1	59.4	96.5	95.2	101.7	2.4
Duluth, MN-WI	88.8	94.4	68.2	94.7	95.1	102.7	12.1
Durham-Chapel Hill, NC	96.0	96.1	86.6	85.2	99.7	111.0	5.8
East Stroudsburg, PA	97.9	96.1	93.9	104.0	100.2	113.1	3.2
Eau Claire, WI	91.9	95.3	70.8	96.7	97.6	106.3	3.8
EI Centro, CA	95.7	106.8	67.0	140.2	98.8	110.6	2.5
Elizabethtown-Fort Knox, KY	87.4	94.1	58.6	79.0	96.2	101.1	3.5
Elkhart-Goshen, IN	87.9	95.3	59.4	92.1	97.7	101.6	0.2
Elmira, NY	94.9	95.9	77.0	130.7	100.1	109.8	3.2
El Paso, TX	93.1	96.2	76.0	86.1	98.6	107.7	4.4
Enid, OK	87.5	95.8	51.3	79.6	98.2	101.2	4.7
Erie, PA	92.2	96.1	63.7	108.9	100.2	106.6	3.1
Eugene-Springfield, OR	100.6	106.3	95.1	94.2	99.0	116.3	3.9
Evansville, IN-KY	90.3	95.3	60.8	93.0	97.8	104.4	4.8
Fairbanks, AK	103.9	108.5	95.9	117.4	103.2	120.2	9.9
Fargo, ND-MN	92.6	94.2	78.6	90.4	95.2	107.0	4.0
Farmington, NM	89.5	96.9	72.2	81.8	92.1	103.4	4.4
Fayetteville, NC	91.7	96.1	69.1	83.2	99.7	106.0	7.3
Fayetteville-Springdale-Rogers, AR	93.3	95.8	75.5	83.2	97.5	107.9	4.6

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Flagstaff, AZ	95.6	96.7	103.9	83.3	92.2	110.5	2.5
Flint, MI	89.2	95.0	57.9	103.9	97.9	103.1	3.1
Florence, SC	90.6	96.0	61.0	90.5	99.9	104.8	9.1
Florence-Muscle Shoals, AL	85.5	94.1	49.9	88.3	96.0	98.9	7.6
Fond du Lac, WI	92.2	95.3	70.1	95.8	97.6	106.6	5.2
Fort Collins, CO	98.0	96.5	128.6	78.4	91.7	113.3	3.4
Fort Smith, AR-OK	88.0	95.8	53.0	82.1	97.6	101.8	5.3
Fort Wayne, IN	92.1	95.3	70.7	92.1	97.7	106.5	6.4
Fresno, CA	101.6	106.8	95.2	144.0	98.8	117.4	4.1
Gadsden, AL	84.6	94.1	50.9	87.5	96.0	97.8	3.5
Gainesville, FL	95.9	95.7	86.9	86.3	99.8	110.9	7.5
Gainesville, GA	94.0	95.7	78.3	91.4	99.5	108.7	3.5
Gettysburg, PA	95.6	96.1	78.3	106.2	100.2	110.6	2.8
Glens Falls, NY	95.7	95.9	81.4	133.5	100.1	110.6	4.4
Goldsboro, NC	90.1	96.1	60.5	83.5	99.7	104.2	9.4
Grand Forks, ND-MN	90.1	94.2	68.2	90.2	95.1	104.2	2.5
Grand Island, NE	88.9	94.3	61.6	84.9	95.8	102.8	2.6
Grand Junction, CO	92.5	96.5	89.0	79.8	91.7	106.9	1.0
Grand Rapids-Kentwood, MI	96.7	95.0	96.3	98.8	97.9	111.8	6.3
Grants Pass, OR	98.6	106.3	86.7	93.3	99.0	114.0	7.9
Great Falls, MT	87.2	96.8	55.5	74.0	92.9	100.8	5.0
Greeley, CO	95.5	96.5	108.7	78.4	91.7	110.5	2.0
Green Bay, WI	92.4	95.3	72.3	95.8	97.6	106.8	4.4
Greensboro-High Point, NC	92.8	96.1	71.0	85.2	99.7	107.3	7.9
Greenville, NC	89.6	96.1	59.5	82.8	99.7	103.6	6.5
Greenville-Anderson, SC	93.5	96.0	73.7	91.1	99.9	108.1	7.5
Gulfport-Biloxi, MS	89.2	94.5	68.4	78.5	94.7	103.1	3.8
Hagerstown-Martinsburg, MD-WV	95.3	96.1	82.0	88.6	99.8	110.1	6.4
Hammond, LA	88.5	95.4	53.8	80.8	99.3	102.3	6.3
Hanford-Corcoran, CA	98.6	106.8	78.4	142.9	98.8	114.0	2.4
Harrisburg-Carlisle, PA	97.5	96.1	90.3	110.0	100.2	112.8	5.3
Harrisonburg, VA	94.1	96.0	78.0	86.7	99.6	108.8	8.2
Hartford-East Hartford-Middletown, CT	101.7	97.0	112.9	146.2	100.6	117.6	2.0
Hattiesburg, MS	88.6	94.5	61.9	79.9	94.7	102.4	7.9
Hickory-Lenoir-Morganton, NC	89.3	96.1	56.0	83.4	99.7	103.2	6.5
Hilton Head Island-Bluffton, SC	99.1	96.0	104.6	89.7	99.9	114.6	10.0
Hinesville, GA	93.6	95.7	75.7	88.7	99.5	108.2	8.5
Homosassa Springs, FL	93.8	95.7	78.3	85.4	99.8	108.5	8.4
Hot Springs, AR	89.2	95.8	60.6	82.2	97.5	103.1	6.2
Houma-Thibodaux, LA	88.1	95.4	53.1	80.8	99.3	101.9	-0.3
Houston-The Woodlands-Sugar Land, TX	99.7	98.4	105.8	88.9	99.7	115.3	3.8
Huntington-Ashland, WV-KY-OH	88.5	96.1	53.9	84.9	99.5	102.4	6.1
Huntsville, AL	91.5	94.1	73.0	86.4	96.0	105.8	5.1
Idaho Falls, ID	90.6	96.6	76.8	68.5	92.1	104.8	3.7
Indianapolis-Carmel-Anderson, IN	95.0	95.3	86.2	92.0	97.7	109.9	5.4
Iowa City, IA	92.8	94.1	82.3	99.6	95.2	107.3	1.0
Ithaca, NY	102.4	95.9	124.2	133.5	100.1	118.3	4.9
Jackson, MI	93.8	95.0	77.3	106.3	97.9	108.5	5.8
Jackson, MS	89.0	94.5	65.3	80.3	94.7	102.9	3.8
Jackson, TN	85.5	94.4	53.7	76.8	94.8	98.8	6.2
Jacksonville, FL	98.7	95.7	105.2	85.5	99.8	114.2	6.5
Jacksonville, NC	89.7	96.1	61.7	83.1	99.7	103.7	5.5
Janesville-Beloit, WI	93.1	95.3	76.4	95.6	97.6	107.6	5.8
Jefferson City, MO	88.2	94.2	58.8	90.2	95.4	102.0	3.0
Johnson City, TN	87.3	94.4	59.9	75.4	94.8	100.9	2.6
Johnstown, PA	86.6	96.1	43.8	112.5	100.2	100.1	2.6
Jonesboro, AR	87.3	95.8	53.3	83.0	97.5	100.9	6.1
Joplin, MO	88.0	94.2	57.5	90.3	95.4	101.7	3.8
Kahului-Wailuku-Lahaina, HI	112.0	110.6	130.3	189.6	104.4	129.5	5.1
Kalamazoo-Portage, MI	93.2	95.0	76.2	102.8	97.9	107.8	1.6
Kankakee, IL	92.2	95.3	71.5	92.0	97.9	106.6	5.8

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Kansas City, MO-KS	93.7	94.1	84.9	97.1	95.8	108.3	2.5
Kennewick-Richland, WA	100.5	106.4	95.7	89.3	99.0	116.2	4.6
Killeen-Temple, TX	93.6	96.2	77.3	84.5	98.6	108.2	5.8
Kingsport-Bristol, TN-VA	85.9	94.6	54.7	77.8	95.7	99.3	7.1
Kingston, NY	100.1	95.9	107.2	132.1	100.1	115.7	2.2
Knoxville, TN	90.4	94.4	73.4	75.4	94.8	104.5	5.1
Kokomo, IN	90.8	95.3	66.2	91.8	97.7	105.0	6.7
La Crosse-Onalaska, WI-MN	94.9	95.3	86.9	95.5	97.6	109.7	10.5
Lafayette, LA	90.7	95.4	63.1	80.3	99.3	104.9	4.9
Lafayette-West Lafayette, IN	92.5	95.3	75.3	91.9	97.7	107.0	5.8
Lake Charles, LA	90.2	95.4	62.3	80.5	99.3	104.3	3.0
Lake Havasu City-Kingman, AZ	89.6	96.7	73.3	82.2	92.2	103.6	6.1
Lakeland-Winter Haven, FL	96.2	95.7	89.7	84.9	99.8	111.2	7.2
Lancaster, PA	97.1	96.1	87.9	108.2	100.2	112.3	3.0
Lansing-East Lansing, MI	94.1	95.0	79.7	101.8	97.9	108.8	4.5
Laredo, TX	89.9	96.2	60.5	84.3	98.6	104.0	1.9
Las Cruces, NM	86.1	96.9	58.0	82.9	92.1	99.6	2.8
Las Vegas-Henderson-Paradise, NV	95.5	97.0	107.6	76.6	91.6	110.5	1.7
Lawrence, KS	92.7	94.0	78.3	105.5	96.4	107.2	2.7
Lawton, OK	87.5	95.8	52.4	79.3	98.2	101.1	6.2
Lebanon, PA	96.1	96.1	82.4	110.6	100.2	111.1	5.1
Lewiston, ID-WA	87.2	96.9	68.0	70.0	92.0	100.8	5.4
Lewiston-Auburn, ME	94.0	98.9	61.3	128.1	101.5	108.7	-1.8
Lexington-Fayette, KY	92.0	94.1	77.8	78.9	96.2	106.4	4.5
Lima, OH	89.0	95.0	55.9	92.0	97.4	103.0	3.6
Lincoln, NE	93.1	94.3	83.0	87.6	95.8	107.6	2.0
Little Rock-North Little Rock-Conway, AR	92.0	95.8	70.3	82.9	97.5	106.3	5.4
Logan, UT-ID	92.0	96.5	84.5	71.2	92.6	106.4	5.1
Longview, TX	92.7	96.2	73.1	85.6	98.6	107.2	4.3
Longview, WA	98.8	106.4	86.7	94.6	99.0	114.2	2.5
Los Angeles-Long Beach-Anaheim, CA	113.8	108.8	181.2	131.2	102.5	131.6	4.2
Louisville/Jefferson County, KY-IN	91.8	94.0	77.5	78.5	96.0	106.2	4.0
Lubbock, TX	93.9	96.2	78.5	86.1	98.6	108.6	3.2
Lynchburg, VA	91.3	96.0	66.3	86.7	99.6	105.5	7.8
Macon-Bibb County, GA	87.4	95.7	54.4	91.5	99.5	101.1	6.8
Madera, CA	100.1	106.8	87.1	144.6	98.8	115.7	10.1
Madison, WI	96.7	95.3	97.5	96.0	97.6	111.8	4.8
Manchester-Nashua, NH	102.2	98.1	115.0	138.4	101.0	118.1	1.4
Manhattan, KS	90.6	94.0	67.8	100.6	96.4	104.7	2.7
Mankato, MN	88.3	94.4	60.0	97.8	95.0	102.1	0.9
Mansfield, OH	88.6	95.0	55.3	91.6	97.4	102.4	3.5
McAllen-Edinburg-Mission, TX	87.8	96.2	56.2	84.5	98.6	101.5	3.4
Medford, OR	102.1	106.3	103.9	93.3	99.0	118.1	4.1
Memphis, TN-MS-AR	90.6	94.4	74.6	78.0	94.8	104.8	4.2
Merced, CA	100.3	106.8	88.4	145.9	98.8	116.0	5.4
Miami-Fort Lauderdale-Pompano Beach, FL	109.9	105.3	143.9	96.8	103.8	127.1	4.0
Michigan City-La Porte, IN	90.9	95.3	65.7	92.7	97.7	105.1	2.8
Midland, MI	91.7	95.0	67.6	101.7	97.9	106.0	7.3
Midland, TX	97.9	96.2	103.0	86.0	98.6	113.1	6.2
Milwaukee-Waukesha, WI	95.6	95.3	89.8	97.2	97.6	110.5	3.8
Minneapolis-St. Paul-Bloomington, MN-WI	103.6	103.6	114.7	89.9	101.2	119.8	5.0
Missoula, MT	94.7	96.8	98.4	76.0	92.9	109.5	5.2
Mobile, AL	87.8	94.1	61.4	86.9	96.0	101.5	5.1
Modesto, CA	103.0	106.8	105.0	140.1	98.8	119.1	3.5
Monroe, LA	86.4	95.4	48.7	80.9	99.3	99.9	8.5
Monroe, MI	92.2	95.0	71.1	100.8	97.9	106.6	2.4
Montgomery, AL	88.6	94.1	64.8	86.0	96.0	102.4	5.4
Morgantown, WV	95.6	96.2	81.2	85.0	100.1	110.5	8.3
Morristown, TN	84.6	94.4	56.0	76.6	94.8	97.8	4.9
Mount Vernon-Anacortes, WA	100.4	106.4	95.8	90.8	99.0	116.1	2.0
Muncie, IN	89.1	95.3	60.4	92.5	97.7	103.1	6.2

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Muskegon, MI	92.1	95.0	71.7	98.2	97.9	106.5	2.4
Myrtle Beach-Conway-North Myrtle Beach, SC-NC	94.8	96.1	84.4	87.6	99.9	109.6	6.3
Napa, CA	112.1	106.8	186.3	143.5	98.8	129.6	3.9
Naples-Marco Island, FL	102.2	95.7	125.8	85.0	99.8	118.1	7.3
Nashville-Davidson--Murfreesboro--Franklin, TN	95.5	94.4	105.0	75.7	94.8	110.5	3.4
New Bern, NC	91.2	96.1	66.9	83.8	99.7	105.5	7.5
New Haven-Milford, CT	101.3	97.0	108.6	146.1	100.6	117.1	1.8
New Orleans-Metairie, LA	94.4	95.4	82.1	80.6	99.3	109.2	2.6
New York-Newark-Jersey City, NY-NJ-PA	114.6	104.4	159.8	130.0	110.8	132.5	3.3
Niles, MI	92.1	95.0	70.8	102.9	97.9	106.5	6.0
North Port-Sarasota-Bradenton, FL	99.3	95.7	107.8	85.4	99.8	114.8	3.7
Norwich-New London, CT	100.0	97.0	99.7	147.9	100.6	115.7	1.7
Ocala, FL	94.0	95.7	77.4	86.1	99.8	108.6	7.0
Ocean City, NJ	94.5	95.8	83.0	111.7	100.0	109.3	-3.9
Odessa, TX	96.5	96.2	94.1	86.0	98.6	111.6	1.2
Ogden-Clearfield, UT	93.6	96.5	92.8	71.7	92.7	108.3	2.2
Oklahoma City, OK	92.8	95.8	75.2	79.6	98.2	107.2	3.9
Olympia-Lacey-Tumwater, WA	103.6	106.4	115.3	89.5	99.0	119.8	5.5
Omaha-Council Bluffs, NE-IA	93.6	94.3	86.5	86.5	95.8	108.3	2.9
Orlando-Kissimmee-Sanford, FL	99.8	95.7	112.6	85.4	99.8	115.4	5.4
Oshkosh-Neenah, WI	92.6	95.3	71.8	96.3	97.6	107.0	4.0
Owensboro, KY	87.4	94.1	53.2	80.5	96.2	101.0	2.2
Oxnard-Thousand Oaks-Ventura, CA	111.4	106.8	188.0	137.2	98.8	128.8	3.8
Palm Bay-Melbourne-Titusville, FL	99.0	95.7	106.0	85.5	99.8	114.4	6.3
Panama City, FL	96.8	95.7	93.1	86.4	99.8	111.9	6.4
Parkersburg-Vienna, WV	89.5	96.2	52.2	84.9	100.1	103.4	8.0
Pensacola-Ferry Pass-Brent, FL	95.8	95.7	86.6	86.8	99.8	110.8	6.7
Peoria, IL	90.5	95.3	61.7	92.7	97.9	104.6	4.5
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	99.2	94.2	114.7	101.0	98.8	114.7	1.1
Phoenix-Mesa-Chandler, AZ	99.2	94.8	116.1	89.7	98.4	114.7	0.3
Pine Bluff, AR	87.9	95.8	51.9	83.0	97.5	101.6	8.5
Pittsburgh, PA	95.2	96.1	75.8	110.4	100.2	110.0	3.2
Pittsfield, MA	95.9	96.7	79.5	146.7	99.7	110.9	0.5
Pocatello, ID	88.8	96.6	70.9	68.0	92.1	102.7	3.9
Portland-South Portland, ME	101.7	98.9	107.4	126.9	101.5	117.6	3.2
Portland-Vancouver-Hillsboro, OR-WA	105.4	106.3	127.9	97.4	99.0	121.8	3.4
Port St. Lucie, FL	98.5	95.7	102.8	85.4	99.8	113.9	3.9
Poughkeepsie-Newburgh-Middletown, NY	110.1	104.5	116.8	137.1	111.1	127.3	4.6
Prescott Valley-Prescott, AZ	94.0	96.7	94.7	85.8	92.2	108.7	4.8
Providence-Warwick, RI-MA	101.2	97.6	105.6	146.2	100.8	117.0	3.5
Provo-Orem, UT	95.8	96.5	110.0	71.7	92.7	110.8	5.2
Pueblo, CO	90.9	96.5	81.6	78.9	91.7	105.1	5.1
Punta Gorda, FL	96.3	95.7	90.9	84.4	99.8	111.3	1.3
Racine, WI	92.2	95.3	70.0	96.3	97.6	106.6	2.1
Raleigh-Cary, NC	97.6	96.1	97.0	84.8	99.7	112.8	6.3
Rapid City, SD	91.9	93.9	76.5	93.8	95.5	106.2	2.1
Reading, PA	96.3	96.1	83.1	110.5	100.2	111.4	4.1
Redding, CA	99.4	106.8	82.0	146.4	98.8	114.9	3.5
Reno, NV	97.4	97.0	122.6	75.1	91.6	112.6	2.9
Richmond, VA	97.9	96.0	99.5	87.1	99.6	113.2	6.2
Riverside-San Bernardino-Ontario, CA	105.5	100.4	129.4	151.3	100.8	122.0	5.0
Roanoke, VA	93.8	96.0	78.3	87.7	99.6	108.4	8.1
Rochester, MN	91.9	94.4	76.5	94.3	95.0	106.3	-1.3
Rochester, NY	97.7	95.9	90.6	132.2	100.1	112.9	4.1
Rockford, IL	93.4	95.3	77.2	91.8	97.9	108.0	5.7
Rocky Mount, NC	87.8	96.1	51.5	85.3	99.7	101.5	8.8
Rome, GA	90.9	95.7	62.2	91.9	99.5	105.1	9.7
Sacramento-Roseville-Folsom, CA	106.3	106.8	132.5	139.6	98.8	122.9	3.2
Saginaw, MI	91.1	95.0	66.8	101.9	97.9	105.4	6.5
St. Cloud, MN	87.5	94.4	58.3	97.5	95.0	101.1	-0.3
St. George, UT	94.2	96.5	96.4	72.1	92.7	108.9	2.2

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
St. Joseph, MO-KS	88.9	94.2	60.9	95.2	95.4	102.7	5.3
St. Louis, MO-IL	96.2	105.3	80.2	92.4	95.5	111.3	5.1
Salem, OR	101.8	106.3	101.9	96.0	99.0	117.7	4.8
Salinas, CA	109.3	106.8	159.1	140.0	98.8	126.3	2.8
Salisbury, MD-DE	94.0	95.9	80.0	92.1	100.0	108.6	7.8
Salt Lake City, UT	96.2	96.5	112.6	71.6	92.7	111.3	2.9
San Angelo, TX	92.1	96.2	71.7	85.2	98.6	106.4	0.8
San Antonio-New Braunfels, TX	96.4	96.2	92.6	84.7	98.6	111.4	3.5
San Diego-Chula Vista-Carlsbad, CA	115.1	107.4	189.7	166.6	103.6	133.1	4.0
San Francisco-Oakland-Berkeley, CA	119.8	113.4	213.2	167.5	108.2	138.6	4.6
San Jose-Sunnyvale-Santa Clara, CA	111.6	106.8	241.1	140.1	98.8	129.1	2.1
San Luis Obispo-Paso Robles, CA	108.6	106.8	146.5	136.8	98.8	125.5	1.3
Santa Cruz-Watsonville, CA	109.1	106.8	168.1	138.3	98.8	126.1	1.4
Santa Fe, NM	93.4	96.9	91.9	80.9	92.1	108.0	0.8
Santa Maria-Santa Barbara, CA	111.8	106.8	186.7	136.0	98.8	129.3	3.7
Santa Rosa-Petaluma, CA	109.8	106.8	170.2	140.6	98.8	127.0	2.2
Savannah, GA	95.4	95.7	86.6	89.1	99.5	110.3	7.4
Scranton-Wilkes-Barre, PA	93.4	96.1	68.4	110.1	100.2	108.0	4.1
Seattle-Tacoma-Bellevue, WA	114.6	114.9	152.9	94.5	106.1	132.5	5.5
Sebastian-Vero Beach, FL	98.2	95.7	100.3	85.6	99.8	113.5	7.2
Sebring-Avon Park, FL	90.0	95.7	62.3	85.3	99.8	104.1	5.9
Sheboygan, WI	93.3	95.3	77.0	94.1	97.6	107.9	4.1
Sherman-Denison, TX	93.2	96.2	74.1	85.9	98.6	107.7	4.8
Shreveport-Bossier City, LA	90.3	95.4	64.5	81.2	99.3	104.4	6.2
Sierra Vista-Douglas, AZ	88.1	96.7	64.5	84.7	92.2	101.9	3.4
Sioux City, IA-NE-SD	90.0	94.1	64.9	96.6	95.4	104.1	4.0
Sioux Falls, SD	93.0	93.9	79.5	93.6	95.5	107.6	3.7
South Bend-Mishawaka, IN-MI	91.9	95.3	69.6	92.8	97.8	106.2	4.2
Spartanburg, SC	92.7	96.0	69.3	90.8	99.9	107.1	8.0
Spokane-Spokane Valley, WA	98.7	106.4	86.9	89.8	99.0	114.1	3.9
Springfield, IL	91.9	95.3	67.3	92.4	97.9	106.2	4.9
Springfield, MA	97.8	96.7	87.9	148.3	99.7	113.1	1.7
Springfield, MO	89.1	94.2	63.0	90.4	95.4	103.0	4.7
Springfield, OH	87.2	95.0	48.9	91.8	97.4	100.8	1.4
State College, PA	95.8	96.1	81.4	109.7	100.2	110.7	1.4
Staunton, VA	92.9	96.0	72.8	87.9	99.6	107.4	10.2
Stockton, CA	104.6	106.8	117.8	142.2	98.8	120.9	3.1
Sumter, SC	86.6	96.0	50.0	91.0	99.9	100.1	10.4
Syracuse, NY	96.5	95.9	83.4	132.4	100.1	111.6	4.3
Tallahassee, FL	95.0	95.7	80.6	86.1	99.8	109.8	8.3
Tampa-St. Petersburg-Clearwater, FL	99.0	96.1	111.5	95.9	97.5	114.4	1.8
Terre Haute, IN	87.4	95.3	54.8	92.8	97.7	101.0	4.2
Texarkana, TX-AR	88.4	96.0	58.5	85.0	98.2	102.2	4.7
The Villages, FL	96.1	95.7	88.9	86.1	99.8	111.1	8.3
Toledo, OH	90.5	95.0	64.6	92.0	97.4	104.7	3.7
Topeka, KS	89.2	94.0	62.0	102.2	96.4	103.2	3.0
Trenton-Princeton, NJ	101.9	95.8	126.6	115.5	100.0	117.8	1.5
Tucson, AZ	92.9	96.7	88.7	82.4	92.2	107.4	2.8
Tulsa, OK	92.0	95.8	71.3	79.6	98.2	106.4	4.2
Tuscaloosa, AL	88.1	94.1	59.1	86.2	96.0	101.9	5.5
Twin Falls, ID	90.0	96.6	75.4	68.8	92.1	104.1	6.6
Tyler, TX	94.8	96.2	82.3	85.6	98.6	109.6	3.3
Urban Honolulu, HI	114.7	110.6	155.5	180.9	104.4	132.7	3.6
Utica-Rome, NY	92.8	95.9	65.7	132.2	100.1	107.3	2.9
Valdosta, GA	88.3	95.7	58.6	88.6	99.5	102.1	8.2
Vallejo, CA	109.4	106.8	158.3	140.0	98.8	126.5	2.7
Victoria, TX	92.1	96.2	69.8	86.0	98.6	106.5	0.4
Vineland-Bridgeton, NJ	96.8	95.8	89.2	108.7	100.0	112.0	4.0
Virginia Beach-Norfolk-Newport News, VA-NC	97.8	96.0	99.1	86.9	99.6	113.1	6.4
Visalia, CA	99.0	106.8	81.3	143.1	98.8	114.4	3.9
Waco, TX	94.7	96.2	82.9	84.5	98.6	109.5	5.1

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2021

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Walla Walla, WA	99.2	106.4	87.7	91.0	99.0	114.7	8.2
Warner Robins, GA	92.0	95.7	67.9	89.3	99.5	106.4	4.0
Washington-Arlington-Alexandria, DC-VA-MD-WV	111.3	108.8	160.7	107.8	102.7	128.7	3.9
Waterloo-Cedar Falls, IA	88.9	94.1	65.1	98.8	95.2	102.8	2.0
Watertown-Fort Drum, NY	94.0	95.9	73.2	130.9	100.1	108.6	7.3
Wausau-Weston, WI	90.0	95.3	62.1	94.8	97.6	104.0	4.9
Weirton-Steubenville, WV-OH	89.2	96.3	51.9	86.6	99.8	103.1	7.0
Wenatchee, WA	103.1	106.4	110.3	94.2	99.0	119.2	4.6
Wheeling, WV-OH	89.3	96.3	51.8	86.3	99.9	103.2	6.8
Wichita, KS	90.8	94.0	69.9	100.5	96.4	105.0	2.7
Wichita Falls, TX	91.1	96.2	64.6	85.7	98.6	105.4	2.3
Williamsport, PA	91.8	96.1	60.9	108.7	100.2	106.1	1.8
Wilmington, NC	97.6	96.1	97.9	82.8	99.7	112.8	7.7
Winchester, VA-WV	97.3	96.0	94.7	87.0	99.7	112.5	7.2
Winston-Salem, NC	91.7	96.1	66.3	84.4	99.7	106.0	6.5
Worcester, MA-CT	100.0	96.8	102.8	149.1	99.8	115.6	2.8
Yakima, WA	97.7	106.4	84.3	90.3	99.0	113.0	5.4
York-Hanover, PA	96.9	96.1	85.9	107.6	100.2	112.0	2.9
Youngstown-Warren-Boardman, OH-PA	87.4	95.1	53.4	93.1	97.5	101.1	5.6
Yuba City, CA	101.5	106.8	95.1	144.5	98.8	117.4	3.3
Yuma, AZ	89.5	96.7	72.2	80.8	92.2	103.5	4.8
Maximum	119.8	114.9	241.1	189.6	111.1	138.6	12.1
Minimum	83.8	93.9	43.8	68.0	91.6	96.9	-3.9
Range	36.0	21.0	197.3	121.6	19.6	41.6	16.0

1. The implicit price deflator for the United States is equal to the national personal consumption expenditures price index, with a base of 2012.

2. The U.S. all items regional price parities is the average price level across all metropolitan areas and the U.S. nonmetropolitan portion.

U.S. Bureau of Economic Analysis