

News Release

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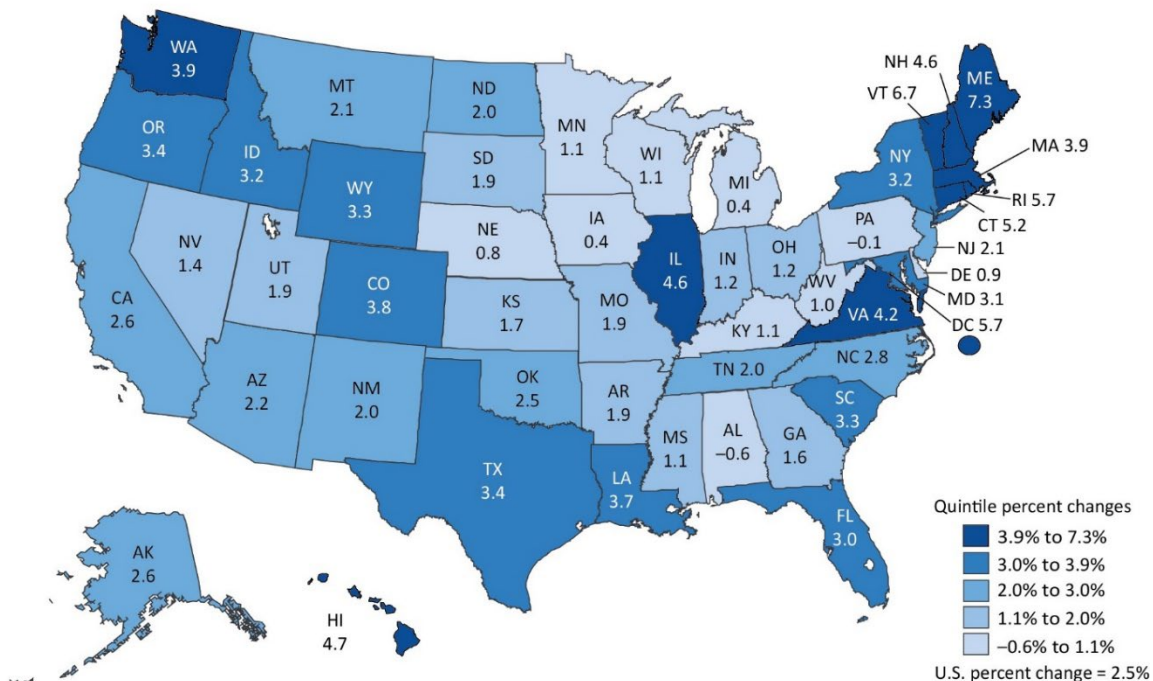
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Real Personal Consumption Expenditures by State and Real Personal Income by State and Metropolitan Area, 2023

Real personal consumption expenditures (PCE) by state increased in 48 states and the District of Columbia in 2023, according to statistics released today by the U.S. Bureau of Economic Analysis. The percent change in real PCE ranged from 7.3 percent in Maine to -0.6 percent in Alabama (table 1).

Real personal income increased in 46 states and the District of Columbia in 2023, with the percent change ranging from 6.0 percent in Vermont to -2.0 percent in Iowa.

Real Personal Consumption Expenditures for States: Percent Change, 2022-2023



U.S. Bureau of Economic Analysis

Regional estimates of real PCE and real personal income are the current-dollar estimates adjusted by the corresponding regional price parity (RPP) and the national PCE price index. In 2023, the national PCE price index increased 3.8 percent (table 2).

Real PCE highlights

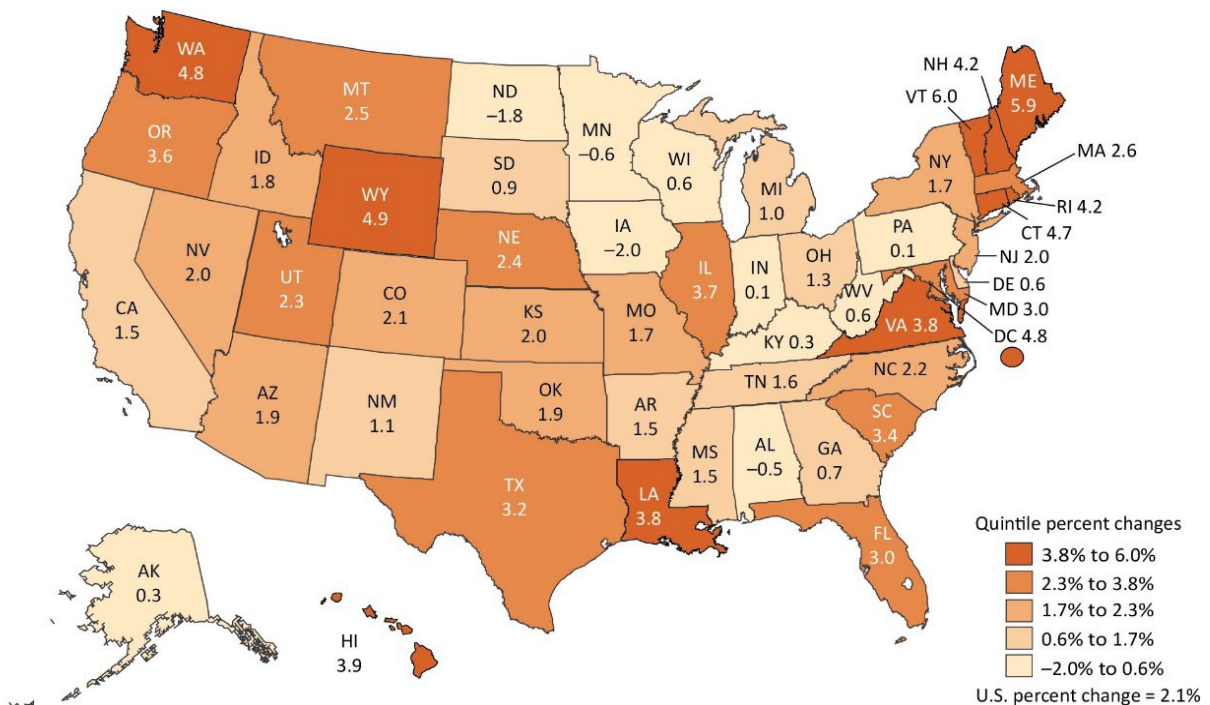
Real PCE for the nation increased 2.5 percent in 2023. Current-dollar PCE (see "[Consumer Spending by State](#)") increased 6.4 percent, more than the national PCE price index.

- Maine had the largest increase in real PCE, at 7.3 percent. Current-dollar PCE increased 7.4 percent, while its implicit regional price deflator increased 0.1 percent (table 2).
- Vermont had the second-largest increase in real PCE, at 6.7 percent. Current-dollar PCE increased 6.0 percent, while its implicit regional price deflator decreased 0.7 percent.
- Alabama had the largest decline in real PCE, at -0.6 percent. Current-dollar PCE increased 5.5 percent, while its implicit regional price deflator increased 6.1 percent.

Real personal income highlights

Real personal income for the nation increased 2.1 percent in 2023. Current-dollar personal income (see "[Personal Income by State](#)") increased 5.9 percent, more than the national PCE price index.

Real Personal Income for States: Percent Change, 2022–2023



U.S. Bureau of Economic Analysis

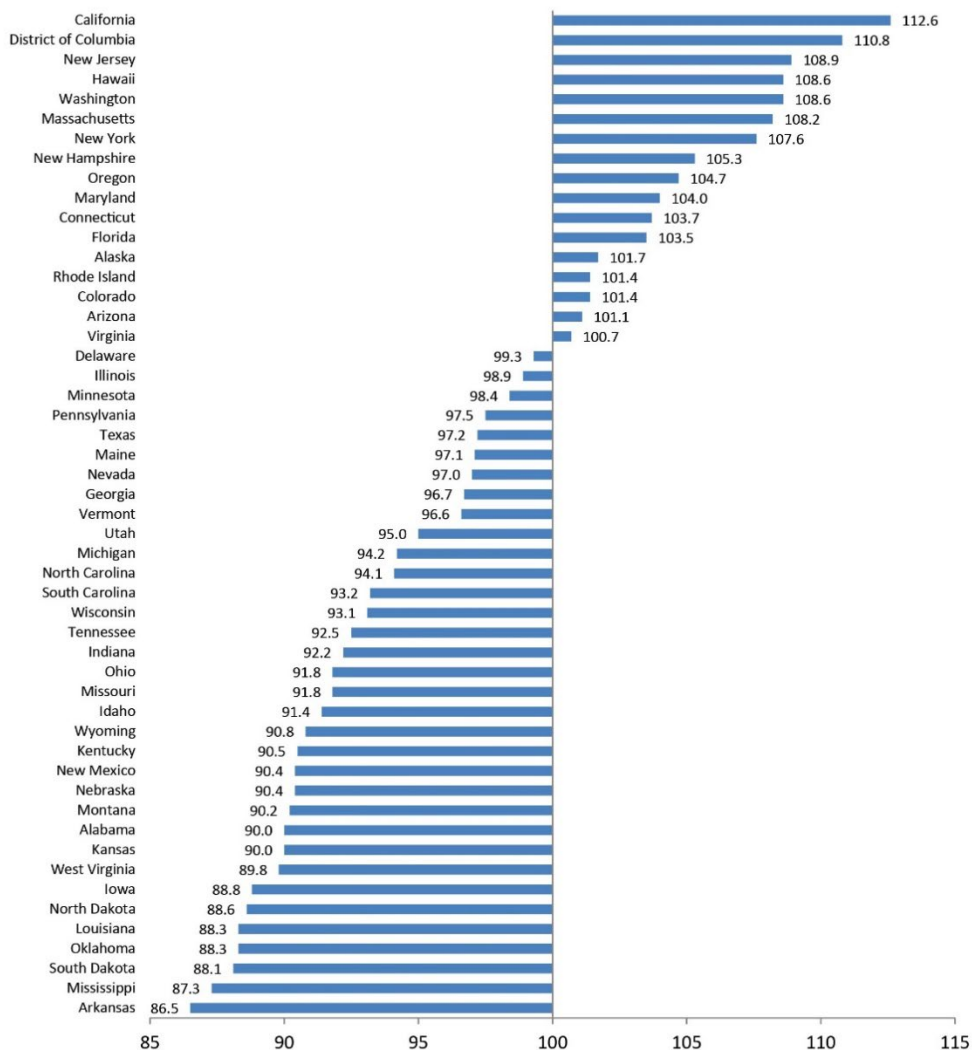
- Vermont had the largest increase in real personal income, at 6.0 percent. Current-dollar personal income increased 5.3 percent, while its implicit regional price deflator decreased 0.7 percent.

- Maine had the second-largest increase in real personal income, at 5.9 percent. Current-dollar personal income increased 6.0 percent, while its implicit regional price deflator increased 0.1 percent.
- Iowa had the largest decline in real personal income, at -2.0 percent. Current-dollar personal income increased 2.2 percent, while its implicit regional price deflator increased 4.3 percent.

Regional price parities

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

Chart 1. Regional Price Parities for States, 2023 (U.S. = 100)



U.S. Bureau of Economic Analysis

The all items RPP covers all consumption goods and services including housing rents. Housing rents are often the main driver in differences in RPPs.

- States with the highest RPPs were California, at 112.6, New Jersey, at 108.9, and Hawaii, at 108.6. The RPP in the District of Columbia was 110.8 (table 2).
- States with the lowest RPPs were Arkansas, at 86.5, Mississippi, at 87.3, and South Dakota, at 88.1.
- Across states, California had the highest RPP for housing rents, at 157.8, and Mississippi had the lowest, at 54.9. The RPP for housing rents in the District of Columbia was 168.5.

[Metropolitan area real personal income and RPP statistics](#) are available in tables 3 and 4 as well as on the BEA website.

Annual update to regional real PCE and real personal income

The estimates for 2023 incorporate the results of BEA's annual update of real PCE by state and real personal income by state and metropolitan area that was also released today. The annual estimates of real PCE by state and real personal income by state and metropolitan area from 2019 to 2022 were revised. This update incorporates new and revised source data that are more complete and more detailed than previously available and aligns the states and metropolitan areas with the annual update of the National Income and Product Accounts and the gross domestic product (GDP) by industry statistics released on September 26, 2024; the GDP and personal income by state statistics released on September 27, 2024; the PCE by state statistics released on October 3, 2024; and the personal income by county and metropolitan area statistics released on November 14, 2024.

BEA released new estimates of real per capita PCE and real per capita personal income for 2023. BEA used U.S. Census Bureau population figures to calculate per capita estimates for 2020 through 2023. For earlier estimates, BEA used intercensal population statistics that it developed based on Census Bureau methodology. See "[Note on Per Capita Personal Consumption Expenditures and Population.](#)"

Next release: December 11, 2025, at 8:30 a.m. EST
Real Personal Consumption Expenditures by State and
Real Personal Income by State and Metropolitan Area, 2024

Note: Regional Economic Accounts news releases will no longer include a separate "Release Highlights" document as part of the releases' "Related Materials." Information previously included in Highlights will continue to be available in the news releases and on BEA's website.

Technical Notes on Regional Price Parities and Implicit Regional Price Deflators

Price indexes commonly measure price changes over time. The PCE price index and the U.S. Bureau of Labor Statistics (BLS) 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 GDP into comparable levels in a common currency. The RPP that BEA has developed compares price levels across regions within the United States. An implicit regional price deflator (IRPD) can be derived by combining the RPPs and the U.S. PCE price index and can be used to compare regional price levels over time.

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 U.S. Census Bureau's 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 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 BLS. The BEA statistics presented herein are products of BEA and not BLS.

2. See "[Improved Measures of Housing Services for the U.S. Economic Accounts](#)," *Survey of Current Business* 101 (May 2021). 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.

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

- Stay informed about BEA developments by reading [The BEA Wire](#), signing up for BEA's [email subscription service](#), or following [@BEA_News](#) on X.
- 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 used to estimate regional price parities, real personal consumption expenditures, and real personal income, 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 parity for a given year and region.²

Real PCE is PCE at RPPs divided by the national PCE price index. The result is real PCE in constant dollars (using 2017 as the reference year). Using Kansas in 2023 as an example:

(1)	(2)	(3)
PCE is divided by the RPP	PCE at RPPs is deflated by the U.S. PCE price index	2023 Kansas real PCE
\$145.1 / 0.900 = \$161.3	\$161.3 / 1.205 = \$133.9	\$133.9

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 2017 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 and 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, 2022–2023

Table 2. Regional Price Parities and Implicit Regional Price Deflators, by State, 2023

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2023

Table 1. Real Personal Consumption Expenditures and Real Personal Income, by State, 2022–2023

	Real personal consumption expenditures (millions of constant (2017) dollars)			Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change	2022	2023	Percent change
United States¹	15,236,192	15,621,697	2.5	19,013,960	19,404,132	2.1
Alabama	211,070	209,835	-0.6	256,889	255,621	-0.5
Alaska	36,670	37,641	2.6	42,765	42,882	0.3
Arizona	321,902	328,923	2.2	374,593	381,769	1.9
Arkansas	127,802	130,245	1.9	167,212	169,738	1.5
California	1,815,443	1,862,352	2.6	2,300,588	2,335,587	1.5
Colorado	295,601	306,885	3.8	377,586	385,504	2.1
Connecticut	179,159	188,561	5.2	248,931	260,583	4.7
Delaware	49,313	49,762	0.9	57,377	57,719	0.6
District of Columbia	44,264	46,806	5.7	51,867	54,359	4.8
Florida	1,060,448	1,092,049	3.0	1,210,835	1,247,047	3.0
Georgia	468,477	475,974	1.6	563,091	567,219	0.7
Hawaii	60,898	63,733	4.7	69,885	72,620	3.9
Idaho	79,961	82,524	3.2	104,062	105,985	1.8
Illinois	587,683	614,597	4.6	734,669	761,677	3.7
Indiana	302,338	305,980	1.2	378,050	378,613	0.1
Iowa	142,808	143,423	0.4	192,242	188,363	-2.0
Kansas	131,627	133,866	1.7	175,965	179,468	2.0
Kentucky	194,140	196,283	1.1	229,327	230,020	0.3
Louisiana	200,603	208,069	3.7	243,667	253,006	3.8
Maine	66,988	71,878	7.3	73,379	77,721	5.9
Maryland	268,193	276,538	3.1	361,299	372,195	3.0
Massachusetts	357,142	370,964	3.9	474,183	486,680	2.6
Michigan	459,978	461,782	0.4	536,035	541,161	1.0
Minnesota	270,291	273,333	1.1	353,330	351,314	-0.6
Mississippi	116,420	117,753	1.1	136,758	138,867	1.5
Missouri	286,642	291,957	1.9	345,170	351,069	1.7
Montana	56,383	57,574	2.1	66,102	67,750	2.5
Nebraska	94,014	94,794	0.8	126,611	129,707	2.4
Nevada	145,707	147,757	1.4	177,649	181,183	2.0
New Hampshire	69,575	72,800	4.6	83,714	87,258	4.2
New Jersey	442,590	451,912	2.1	570,674	581,816	2.0
New Mexico	87,670	89,453	2.0	106,383	107,518	1.1
New York	932,436	962,482	3.2	1,221,957	1,243,246	1.7
North Carolina	474,449	487,961	2.8	578,336	591,116	2.2
North Dakota	40,181	40,973	2.0	53,919	52,953	-1.8
Ohio	532,519	538,904	1.2	646,886	655,602	1.3
Oklahoma	165,111	169,192	2.5	226,515	230,880	1.9
Oregon	179,879	185,908	3.4	219,807	227,750	3.6
Pennsylvania	629,333	628,992	-0.1	760,573	761,197	0.1
Rhode Island	47,500	50,198	5.7	58,180	60,638	4.2
South Carolina	228,310	235,732	3.3	265,626	274,591	3.4
South Dakota	44,316	45,152	1.9	62,237	62,804	0.9
Tennessee	309,220	315,346	2.0	391,981	398,095	1.6
Texas	1,318,235	1,362,468	3.4	1,673,439	1,727,121	3.2
Utah	149,524	152,351	1.9	187,353	191,734	2.3
Vermont	30,723	32,784	6.7	35,147	37,243	6.0
Virginia	384,258	400,454	4.2	511,101	530,513	3.8
Washington	347,964	361,525	3.9	461,585	483,702	4.8
West Virginia	77,079	77,875	1.0	86,003	86,502	0.6
Wisconsin	274,093	277,137	1.1	340,655	342,613	0.6
Wyoming	29,407	30,381	3.3	41,772	43,813	4.9
Maximum	1,815,443	1,862,352	7.3	2,300,588	2,335,587	6.0
Minimum	29,407	30,381	-0.6	35,147	37,243	-2.0
Range	1,786,036	1,831,970	7.9	2,265,441	2,298,344	8.0

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, 2023

	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	99.5	100.7	98.6	100.2	120.5	3.8
Alabama	90.0	95.1	61.6	90.4	98.7	108.4	6.1
Alaska	101.7	100.4	96.6	111.9	103.3	122.6	3.5
Arizona	101.1	97.5	108.6	83.2	102.3	121.8	5.0
Arkansas	86.5	92.1	56.7	81.4	95.3	104.2	3.3
California	112.6	107.5	157.8	142.1	104.8	135.7	3.8
Colorado	101.4	98.1	130.5	87.1	96.2	122.2	2.9
Connecticut	103.7	97.4	116.8	152.5	102.6	124.9	1.3
Delaware	99.3	98.4	98.9	105.3	99.7	119.6	5.1
District of Columbia	110.8	105.9	168.5	110.2	102.5	133.5	2.1
Florida	103.5	98.4	123.1	93.8	101.2	124.7	5.0
Georgia	96.7	98.3	88.3	93.2	98.7	116.5	4.8
Hawaii	108.6	106.9	128.9	191.3	101.9	130.9	1.5
Idaho	91.4	94.0	86.7	68.1	93.0	110.2	3.4
Illinois	98.9	100.9	92.4	80.8	100.5	119.1	1.3
Indiana	92.2	94.8	71.4	86.4	98.1	111.1	4.1
Iowa	88.8	95.1	66.0	87.1	93.1	107.0	4.3
Kansas	90.0	94.8	68.6	92.9	94.1	108.4	4.1
Kentucky	90.5	95.1	62.9	81.2	98.4	109.0	5.0
Louisiana	88.3	92.0	65.1	76.5	95.3	106.4	1.3
Maine	97.1	96.6	80.4	143.6	103.0	117.0	0.1
Maryland	104.0	102.9	119.9	108.9	99.8	125.3	2.8
Massachusetts	108.2	102.4	130.1	166.3	104.7	130.4	2.6
Michigan	94.2	95.4	78.9	100.6	98.4	113.5	4.4
Minnesota	98.4	101.8	90.6	90.6	99.3	118.6	4.8
Mississippi	87.3	94.9	54.9	84.6	98.2	105.2	3.7
Missouri	91.8	97.7	70.4	85.5	95.2	110.6	4.6
Montana	90.2	94.3	76.7	72.9	93.5	108.7	3.9
Nebraska	90.4	95.3	74.3	79.7	92.7	108.9	4.4
Nevada	97.0	94.6	113.3	90.7	94.1	116.9	4.5
New Hampshire	105.3	100.1	114.6	155.6	104.8	126.9	1.4
New Jersey	108.9	107.1	134.1	115.8	103.6	131.2	3.9
New Mexico	90.4	95.4	75.3	76.9	93.7	108.9	3.2
New York	107.6	106.2	121.9	135.7	103.9	129.7	3.8
North Carolina	94.1	96.5	80.8	84.2	98.1	113.4	3.9
North Dakota	88.6	95.9	69.4	73.7	90.4	106.7	3.6
Ohio	91.8	93.4	72.1	89.8	97.8	110.6	4.1
Oklahoma	88.3	92.2	65.0	80.3	95.4	106.4	3.2
Oregon	104.7	104.6	109.0	91.2	104.2	126.2	1.9
Pennsylvania	97.5	99.2	85.8	118.5	99.1	117.5	5.2
Rhode Island	101.4	96.8	102.4	146.0	102.5	122.2	0.8
South Carolina	93.2	95.6	80.5	86.1	97.4	112.3	3.6
South Dakota	88.1	96.1	64.9	80.8	91.8	106.1	4.0
Tennessee	92.5	94.8	77.9	76.3	97.6	111.5	4.6
Texas	97.2	98.4	97.4	92.7	96.4	117.1	3.5
Utah	95.0	93.0	106.2	72.9	94.4	114.5	4.2
Vermont	96.6	96.3	82.0	121.9	101.4	116.4	-0.7
Virginia	100.7	100.3	105.5	92.4	100.0	121.4	2.4
Washington	108.6	106.7	125.5	84.0	106.1	130.8	2.4
West Virginia	89.8	95.7	56.1	89.0	99.5	108.2	4.5
Wisconsin	93.1	93.6	78.3	89.7	98.2	112.2	4.5
Wyoming	90.8	94.8	75.9	74.5	94.7	109.5	2.7
Maximum	112.6	107.5	168.5	191.3	106.1	135.7	6.1
Minimum	86.5	92	54.9	68.1	90.4	104.2	-0.7
Range	26.1	15.5	113.6	123.2	15.7	31.4	6.8

1. The implicit price deflator for the United States is equal to the national personal consumption expenditures price index, with a base of 2017.

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, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
United States	19,013,960	19,404,132	2.1
Nonmetropolitan portion	2,296,798	2,324,520	1.2
Metropolitan statistical areas			
Abilene, TX	9,070	9,418	3.8
Akron, OH	38,956	39,358	1.0
Albany, GA	6,833	6,799	-0.5
Albany-Lebanon, OR	5,832	5,960	2.2
Albany-Schenectady-Troy, NY	54,862	55,490	1.1
Albuquerque, NM	46,525	47,261	1.6
Alexandria, LA	7,720	7,684	-0.5
Allentown-Bethlehem-Easton, PA-NJ	48,238	49,070	1.7
Altoona, PA	6,451	6,549	1.5
Amarillo, TX	14,457	15,012	3.8
Ames, IA	6,600	6,350	-3.8
Anchorage, AK	23,867	23,568	-1.3
Ann Arbor, MI	23,548	24,059	2.2
Anniston-Oxford, AL	5,067	4,967	-2.0
Appleton, WI	14,109	14,061	-0.3
Asheville, NC	25,265	25,776	2.0
Athens-Clarke County, GA	10,456	10,537	0.8
Atlanta-Sandy Springs-Alpharetta, GA	352,925	352,688	-0.1
Atlantic City-Hammonton, NJ	13,819	14,248	3.1
Auburn-Opelika, AL	8,101	8,318	2.7
Augusta-Richmond County, GA-SC	29,501	29,941	1.5
Austin-Round Rock-Georgetown, TX	160,928	169,550	5.4
Bakersfield, CA	33,792	35,193	4.1
Baltimore-Columbia-Towson, MD	173,332	176,596	1.9
Bangor, ME	7,218	7,622	5.6
Barnstable Town, MA	15,903	16,832	5.8
Baton Rouge, LA	47,621	49,587	4.1
Battle Creek, MI	5,947	6,027	1.3
Bay City, MI	5,015	4,949	-1.3
Beaumont-Port Arthur, TX	18,228	18,755	2.9
Beckley, WV	5,227	5,187	-0.8
Bellingham, WA	11,122	11,500	3.4
Bend, OR	12,537	13,279	5.9
Billings, MT	11,707	12,240	4.6
Binghamton, NY	11,425	11,652	2.0
Birmingham-Hoover, AL	66,465	66,887	0.6
Bismarck, ND	8,915	9,075	1.8
Blacksburg-Christiansburg, VA	7,228	7,678	6.2
Bloomington, IL	9,410	9,425	0.2
Bloomington, IN	8,099	8,117	0.2
Bloomsburg-Berwick, PA	4,337	4,335	0.0
Boise City, ID	45,432	46,751	2.9
Boston-Cambridge-Newton, MA-NH	361,743	369,881	2.2
Boulder, CO	26,992	27,286	1.1
Bowling Green, KY	8,066	8,159	1.1
Bremerton-Silverdale-Port Orchard, WA	15,072	15,855	5.2
Bridgeport-Stamford-Norwalk, CT	98,578	104,628	6.1
Brownsville-Harlingen, TX	15,922	16,048	0.8
Brunswick, GA	5,941	6,197	4.3
Buffalo-Cheektowaga, NY	61,242	62,213	1.6
Burlington, NC	8,175	8,258	1.0
Burlington-South Burlington, VT	12,662	13,630	7.6
California-Lexington Park, MD	6,600	6,728	1.9
Canton-Massillon, OH	20,888	21,218	1.6
Cape Coral-Fort Myers, FL	42,888	44,579	3.9
Cape Girardeau, MO-IL	4,955	5,093	2.8

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Carbondale-Marion, IL	6,496	6,545	0.8
Carson City, NV	3,182	3,258	2.4
Casper, WY	5,595	5,780	3.3
Cedar Rapids, IA	16,260	16,169	-0.6
Chambersburg-Waynesboro, PA	8,102	8,160	0.7
Champaign-Urbana, IL	11,907	12,151	2.0
Charleston, WV	13,045	13,229	1.4
Charleston-North Charleston, SC	46,702	48,071	2.9
Charlotte-Concord-Gastonia, NC-SC	162,717	167,391	2.9
Charlottesville, VA	16,655	17,180	3.2
Chattanooga, TN-GA	30,019	30,622	2.0
Cheyenne, WY	5,623	6,017	7.0
Chicago-Naperville-Elgin, IL-IN-WI	565,675	592,094	4.7
Chico, CA	9,270	9,362	1.0
Cincinnati, OH-KY-IN	136,395	138,050	1.2
Clarksville, TN-KY	15,525	15,674	1.0
Cleveland, TN	5,859	5,808	-0.9
Cleveland-Elyria, OH	122,079	124,317	1.8
Coeur d'Alene, ID	10,126	10,147	0.2
College Station-Bryan, TX	12,620	13,291	5.3
Colorado Springs, CO	42,325	43,173	2.0
Columbia, MO	11,800	11,967	1.4
Columbia, SC	42,857	44,533	3.9
Columbus, GA-AL	14,858	15,076	1.5
Columbus, IN	5,011	5,072	1.2
Columbus, OH	123,578	125,225	1.3
Corpus Christi, TX	20,718	21,675	4.6
Corvallis, OR	4,471	4,608	3.1
Crestview-Fort Walton Beach-Destin, FL	17,552	18,093	3.1
Cumberland, MD-WV	4,416	4,494	1.8
Dallas-Fort Worth-Arlington, TX	469,494	483,662	3.0
Dalton, GA	6,032	6,049	0.3
Danville, IL	3,522	3,532	0.3
Daphne-Fairhope-Foley, AL	13,438	13,569	1.0
Davenport-Moline-Rock Island, IA-IL	21,168	21,255	0.4
Dayton-Kettering, OH	43,423	43,967	1.3
Decatur, AL	7,271	7,106	-2.3
Decatur, IL	5,757	5,799	0.7
Deltona-Daytona Beach-Ormond Beach, FL	33,139	34,821	5.1
Denver-Aurora-Lakewood, CO	206,845	211,551	2.3
Des Moines-West Des Moines, IA	44,737	45,268	1.2
Detroit-Warren-Dearborn, MI	243,809	243,546	-0.1
Dothan, AL	7,785	7,583	-2.6
Dover, DE	8,682	9,040	4.1
Dubuque, IA	6,036	5,858	-3.0
Duluth, MN-WI	15,630	16,027	2.5
Durham-Chapel Hill, NC	38,717	39,647	2.4
East Stroudsburg, PA	7,973	7,899	-0.9
Eau Claire, WI	9,370	9,409	0.4
El Centro, CA	7,045	7,141	1.4
Elizabethtown-Fort Knox, KY	7,835	7,880	0.6
Elkhart-Goshen, IN	11,468	10,877	-5.1
Elmira, NY	3,966	3,950	-0.4
El Paso, TX	36,418	37,611	3.3
Enid, OK	3,086	3,063	-0.7
Erie, PA	13,200	13,299	0.7
Eugene-Springfield, OR	18,248	18,881	3.5
Evansville, IN-KY	17,938	17,969	0.2
Fairbanks, AK	5,656	5,539	-2.1

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Fargo, ND-MN	16,662	16,690	0.2
Farmington, NM	5,204	5,342	2.6
Fayetteville, NC	22,960	23,124	0.7
Fayetteville-Springdale-Rogers, AR	46,738	48,089	2.9
Flagstaff, AZ	7,613	8,162	7.2
Flint, MI	18,587	19,522	5.0
Florence, SC	9,981	10,061	0.8
Florence-Muscle Shoals, AL	7,061	7,108	0.7
Fond du Lac, WI	5,830	5,589	-4.1
Fort Collins, CO	21,903	22,773	4.0
Fort Smith, AR-OK	11,380	11,480	0.9
Fort Wayne, IN	23,088	23,949	3.7
Fresno, CA	42,047	42,892	2.0
Gadsden, AL	4,665	4,446	-4.7
Gainesville, FL	15,879	16,370	3.1
Gainesville, GA	10,827	11,288	4.3
Gettysburg, PA	5,417	5,637	4.1
Glens Falls, NY	6,572	6,583	0.2
Goldsboro, NC	5,614	5,582	-0.6
Grand Forks, ND-MN	6,291	6,205	-1.4
Grand Island, NE	4,310	4,410	2.3
Grand Junction, CO	8,060	8,310	3.1
Grand Rapids-Kentwood, MI	62,326	62,648	0.5
Grants Pass, OR	3,803	3,991	5.0
Great Falls, MT	4,600	4,585	-0.3
Greeley, CO	18,892	19,474	3.1
Green Bay, WI	19,180	19,059	-0.6
Greensboro-High Point, NC	39,370	39,710	0.9
Greenville, NC	9,204	9,054	-1.6
Greenville-Anderson, SC	47,340	48,744	3.0
Gulfport-Biloxi, MS	18,543	18,956	2.2
Hagerstown-Martinsburg, MD-WV	14,563	14,716	1.1
Hammond, LA	6,310	6,675	5.8
Hanford-Corcoran, CA	5,494	5,676	3.3
Harrisburg-Carlisle, PA	33,268	33,452	0.6
Harrisonburg, VA	6,360	6,333	-0.4
Hartford-East Hartford-Middletown, CT	71,580	74,152	3.6
Hattiesburg, MS	7,676	7,749	0.9
Hickory-Lenoir-Morganton, NC	17,813	18,009	1.1
Hilton Head Island-Bluffton, SC	14,092	15,293	8.5
Hinesville, GA	3,153	3,242	2.8
Homosassa Springs, FL	6,656	6,853	3.0
Hot Springs, AR	4,969	5,078	2.2
Houma-Thibodaux, LA	10,108	10,381	2.7
Houston-The Woodlands-Sugar Land, TX	441,276	449,789	1.9
Huntington-Ashland, WV-KY-OH	16,676	16,989	1.9
Huntsville, AL	29,032	29,769	2.5
Idaho Falls, ID	8,719	8,946	2.6
Indianapolis-Carmel-Anderson, IN	137,114	137,735	0.5
Iowa City, IA	10,802	10,693	-1.0
Ithaca, NY	4,711	4,715	0.1
Jackson, MI	7,014	6,980	-0.5
Jackson, MS	30,468	31,056	1.9
Jackson, TN	8,892	9,056	1.8
Jacksonville, FL	91,252	93,808	2.8
Jacksonville, NC	10,120	10,399	2.8
Janesville-Beloit, WI	8,289	8,419	1.6
Jefferson City, MO	7,952	8,129	2.2
Johnson City, TN	10,152	10,292	1.4

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Johnstown, PA	6,235	6,285	0.8
Jonesboro, AR	6,378	6,507	2.0
Joplin, MO	8,593	8,586	-0.1
Kahului-Wailuku-Lahaina, HI	7,894	8,074	2.3
Kalamazoo-Portage, MI	14,468	14,773	2.1
Kankakee, IL	5,086	5,125	0.8
Kansas City, MO-KS	137,316	138,381	0.8
Kennewick-Richland, WA	13,350	14,297	7.1
Killeen-Temple, TX	22,234	22,850	2.8
Kingsport-Bristol, TN-VA	15,065	15,531	3.1
Kingston, NY	9,945	10,160	2.2
Knoxville, TN	50,622	51,357	1.5
Kokomo, IN	3,987	3,916	-1.8
La Crosse-Onalaska, WI-MN	7,851	7,917	0.8
Lafayette, LA	25,443	26,673	4.8
Lafayette-West Lafayette, IN	10,278	10,536	2.5
Lake Charles, LA	10,549	10,873	3.1
Lake Havasu City-Kingman, AZ	8,974	9,680	7.9
Lakeland-Winter Haven, FL	30,511	31,052	1.8
Lancaster, PA	32,037	32,259	0.7
Lansing-East Lansing, MI	25,356	26,083	2.9
Laredo, TX	10,434	10,902	4.5
Las Cruces, NM	10,282	10,001	-2.7
Las Vegas-Henderson-Paradise, NV	124,864	127,215	1.9
Lawrence, KS	6,027	6,263	3.9
Lawton, OK	6,270	6,209	-1.0
Lebanon, PA	7,614	7,406	-2.7
Lewiston, ID-WA	3,581	3,550	-0.9
Lewiston-Auburn, ME	4,930	5,078	3.0
Lexington-Fayette, KY	29,236	29,272	0.1
Lima, OH	4,970	5,171	4.0
Lincoln, NE	20,014	20,673	3.3
Little Rock-North Little Rock-Conway, AR	41,299	42,409	2.7
Logan, UT-ID	7,025	7,086	0.9
Longview, TX	14,758	14,737	-0.1
Longview, WA	5,273	5,471	3.8
Los Angeles-Long Beach-Anaheim, CA	752,787	745,812	-0.9
Louisville/Jefferson County, KY-IN	74,360	74,269	-0.1
Lubbock, TX	16,109	16,548	2.7
Lynchburg, VA	12,167	12,489	2.6
Macon-Bibb County, GA	10,520	10,581	0.6
Madera, CA	6,069	6,145	1.2
Madison, WI	44,611	45,732	2.5
Manchester-Nashua, NH	24,777	25,769	4.0
Manhattan, KS	6,853	6,878	0.4
Mankato, MN	5,624	5,621	0.0
Mansfield, OH	5,631	5,778	2.6
McAllen-Edinburg-Mission, TX	29,178	30,020	2.9
Medford, OR	10,601	11,110	4.8
Memphis, TN-MS-AR	71,547	71,806	0.4
Merced, CA	11,178	11,381	1.8
Miami-Fort Lauderdale-Pompano Beach, FL	372,653	387,653	4.0
Michigan City-La Porte, IN	5,543	5,362	-3.3
Midland, MI	4,956	4,947	-0.2
Midland, TX	23,032	22,956	-0.3
Milwaukee-Waukesha, WI	97,231	98,228	1.0
Minneapolis-St. Paul-Bloomington, MN-WI	236,433	235,283	-0.5
Missoula, MT	7,433	7,438	0.1
Mobile, AL	20,314	19,993	-1.6

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Modesto, CA	22,951	23,181	1.0
Monroe, LA	9,462	9,909	4.7
Monroe, MI	8,179	8,293	1.4
Montgomery, AL	18,566	18,815	1.3
Morgantown, WV	6,900	7,031	1.9
Morristown, TN	6,664	6,856	2.9
Mount Vernon-Anacortes, WA	6,749	6,925	2.6
Muncie, IN	5,039	5,010	-0.6
Muskegon, MI	7,829	7,887	0.7
Myrtle Beach-Conway-North Myrtle Beach, SC-NC	25,240	27,075	7.3
Napa, CA	9,165	9,414	2.7
Naples-Marco Island, FL	41,846	42,748	2.2
Nashville-Davidson--Murfreesboro--Franklin, TN	137,955	140,840	2.1
New Bern, NC	6,334	6,585	4.0
New Haven-Milford, CT	46,109	47,570	3.2
New Orleans-Metairie, LA	72,301	75,200	4.0
New York-Newark-Jersey City, NY-NJ-PA	1,289,986	1,322,547	2.5
Niles, MI	9,038	8,631	-4.5
North Port-Sarasota-Bradenton, FL	53,130	54,737	3.0
Norwich-New London, CT	14,797	15,512	4.8
Ocala, FL	16,160	16,664	3.1
Ocean City, NJ	5,850	6,123	4.7
Odessa, TX	8,181	8,762	7.1
Ogden-Clearfield, UT	36,587	37,254	1.8
Oklahoma City, OK	85,814	87,093	1.5
Olympia-Lacey-Tumwater, WA	14,706	15,388	4.6
Omaha-Council Bluffs, NE-IA	65,383	66,363	1.5
Orlando-Kissimmee-Sanford, FL	129,589	133,906	3.3
Oshkosh-Neenah, WI	9,278	9,477	2.1
Owensboro, KY	6,062	5,957	-1.7
Oxnard-Thousand Oaks-Ventura, CA	46,507	47,480	2.1
Palm Bay-Melbourne-Titusville, FL	30,977	31,952	3.1
Panama City, FL	8,811	9,079	3.0
Parkersburg-Vienna, WV	4,846	4,828	-0.4
Pensacola-Ferry Pass-Brent, FL	25,644	26,266	2.4
Peoria, IL	21,942	22,592	3.0
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	398,821	395,105	-0.9
Phoenix-Mesa-Chandler, AZ	261,076	265,177	1.6
Pine Bluff, AR	3,751	3,662	-2.4
Pittsburgh, PA	144,207	145,279	0.7
Pittsfield, MA	7,304	8,048	10.2
Pocatello, ID	4,653	4,653	0.0
Portland-South Portland, ME	34,041	35,499	4.3
Portland-Vancouver-Hillsboro, OR-WA	141,389	146,710	3.8
Port St. Lucie, FL	31,075	32,093	3.3
Poughkeepsie-Newburgh-Middletown, NY	34,086	34,773	2.0
Prescott Valley-Prescott, AZ	11,913	12,188	2.3
Providence-Warwick, RI-MA	89,879	93,247	3.7
Provo-Orem, UT	35,318	36,866	4.4
Pueblo, CO	7,610	7,455	-2.0
Punta Gorda, FL	9,451	9,636	2.0
Racine, WI	11,110	10,765	-3.1
Raleigh-Cary, NC	92,745	96,230	3.8
Rapid City, SD	9,219	9,485	2.9
Reading, PA	22,715	23,083	1.6
Redding, CA	8,149	8,407	3.2
Reno, NV	33,683	34,868	3.5
Richmond, VA	80,238	82,241	2.5
Riverside-San Bernardino-Ontario, CA	188,571	189,837	0.7

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Roanoke, VA	16,486	17,193	4.3
Rochester, MN	14,089	14,027	-0.4
Rochester, NY	57,466	56,616	-1.5
Rockford, IL	16,517	16,736	1.3
Rocky Mount, NC	6,973	7,030	0.8
Rome, GA	4,190	4,312	2.9
Sacramento-Roseville-Folsom, CA	126,575	130,184	2.9
Saginaw, MI	8,973	8,796	-2.0
St. Cloud, MN	11,332	11,623	2.6
St. George, UT	9,291	9,535	2.6
St. Joseph, MO-KS	5,771	5,792	0.4
St. Louis, MO-IL	177,139	182,529	3.0
Salem, OR	19,660	20,481	4.2
Salinas, CA	21,598	21,856	1.2
Salisbury, MD-DE	24,142	24,283	0.6
Salt Lake City, UT	75,871	76,992	1.5
San Angelo, TX	6,956	7,330	5.4
San Antonio-New Braunfels, TX	136,601	142,697	4.5
San Diego-Chula Vista-Carlsbad, CA	183,866	192,985	5.0
San Francisco-Oakland-Berkeley, CA	412,266	419,973	1.9
San Jose-Sunnyvale-Santa Clara, CA	203,974	212,235	4.0
San Luis Obispo-Paso Robles, CA	14,782	15,370	4.0
Santa Cruz-Watsonville, CA	16,563	17,113	3.3
Santa Fe, NM	10,331	10,795	4.5
Santa Maria-Santa Barbara, CA	26,035	26,752	2.8
Santa Rosa-Petaluma, CA	29,139	30,359	4.2
Savannah, GA	20,873	21,464	2.8
Scranton--Wilkes-Barre, PA	28,021	27,926	-0.3
Seattle-Tacoma-Bellevue, WA	281,657	295,736	5.0
Sebastian-Vero Beach, FL	14,789	15,418	4.3
Sebring-Avon Park, FL	4,210	4,331	2.9
Sheboygan, WI	6,857	6,892	0.5
Sherman-Denison, TX	7,099	7,445	4.9
Shreveport-Bossier City, LA	21,776	22,372	2.7
Sierra Vista-Douglas, AZ	6,219	6,374	2.5
Sioux City, IA-NE-SD	9,165	9,214	0.5
Sioux Falls, SD	20,865	21,292	2.0
South Bend-Mishawaka, IN-MI	17,173	16,829	-2.0
Spartanburg, SC	16,794	17,573	4.6
Spokane-Spokane Valley, WA	27,546	28,603	3.8
Springfield, IL	11,418	11,405	-0.1
Springfield, MA	37,004	37,687	1.8
Springfield, MO	24,470	24,443	-0.1
Springfield, OH	6,302	6,382	1.3
State College, PA	7,724	8,136	5.3
Staunton, VA	6,431	6,397	-0.5
Stockton, CA	35,622	36,809	3.3
Sumter, SC	6,238	6,441	3.2
Syracuse, NY	35,053	34,652	-1.1
Tallahassee, FL	18,512	18,973	2.5
Tampa-St. Petersburg-Clearwater, FL	170,561	171,453	0.5
Terre Haute, IN	8,541	8,481	-0.7
Texarkana, TX-AR	6,742	6,811	1.0
The Villages, FL	9,068	9,522	5.0
Toledo, OH	33,966	34,268	0.9
Topeka, KS	12,468	13,005	4.3
Trenton-Princeton, NJ	26,146	26,243	0.4
Tucson, AZ	53,329	54,571	2.3
Tulsa, OK	65,088	67,023	3.0

Table 3. Real Personal Income, by Metropolitan Area, 2022–2023

	Real personal income (millions of constant (2017) dollars)		
	2022	2023	Percent change
Tuscaloosa, AL	11,579	11,391	-1.6
Twin Falls, ID	5,627	5,762	2.4
Tyler, TX	14,868	14,764	-0.7
Urban Honolulu, HI	49,918	52,164	4.5
Utica-Rome, NY	14,464	14,292	-1.2
Valdosta, GA	6,130	6,410	4.6
Vallejo, CA	21,009	22,071	5.1
Victoria, TX	5,228	5,365	2.6
Vineland-Bridgeton, NJ	6,730	6,671	-0.9
Virginia Beach-Norfolk-Newport News, VA-NC	93,305	96,579	3.5
Visalia, CA	18,944	18,990	0.2
Waco, TX	13,225	14,017	6.0
Walla Walla, WA	2,914	2,947	1.1
Warner Robins, GA	8,863	9,053	2.2
Washington-Arlington-Alexandria, DC-VA-MD-WV	418,228	438,904	4.9
Waterloo-Cedar Falls, IA	9,146	9,078	-0.7
Watertown-Fort Drum, NY	5,645	5,792	2.6
Wausau-Weston, WI	9,396	9,495	1.1
Weirton-Steubenville, WV-OH	5,385	5,388	0.0
Wenatchee, WA	6,143	6,354	3.4
Wheeling, WV-OH	7,075	7,150	1.1
Wichita, KS	36,085	36,638	1.5
Wichita Falls, TX	7,790	7,875	1.1
Williamsport, PA	5,544	5,424	-2.2
Wilmington, NC	15,959	16,387	2.7
Winchester, VA-WV	7,738	8,063	4.2
Winston-Salem, NC	35,334	36,139	2.3
Worcester, MA-CT	52,544	54,393	3.5
Yakima, WA	10,937	11,212	2.5
York-Hanover, PA	24,290	24,356	0.3
Youngstown-Warren-Boardman, OH-PA	26,279	26,805	2.0
Yuba City, CA	7,725	7,716	-0.1
Yuma, AZ	9,457	9,414	-0.5
Maximum	1,289,986	1,322,547	10.2
Minimum	2,914	2,947	-5.1
Range	1,287,072	1,319,600	15.3

Notes. Metropolitan areas are defined (geographically delineated) by the Office of Management and Budget (OMB) Bulletin No. 20-01, issued March 6, 2020.

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, 2023

	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	99.5	100.7	98.6	100.2	120.5	3.8
Nonmetropolitan portion	88.2	95.3	59.0	89.1	97.1	106.3	3.4
Metropolitan statistical areas							
Abilene, TX	89.8	91.9	73.6	89.1	95.3	108.3	1.9
Akron, OH	92.8	93.3	77.5	89.4	97.8	111.8	4.6
Albany, GA	86.4	95.9	50.0	85.9	98.0	104.1	4.1
Albany-Lebanon, OR	104.6	104.6	108.2	91.0	104.2	126.0	3.8
Albany-Schenectady-Troy, NY	97.6	98.1	92.8	132.3	97.6	117.6	4.9
Albuquerque, NM	93.0	95.4	88.8	76.7	93.7	112.0	3.3
Alexandria, LA	86.2	92.0	56.1	75.6	95.3	103.9	4.0
Allentown-Bethlehem-Easton, PA-NJ	98.4	98.5	98.8	115.8	97.7	118.6	4.3
Altoona, PA	88.3	98.5	53.0	117.3	97.6	106.3	2.9
Amarillo, TX	90.8	91.9	77.4	90.7	95.3	109.4	3.0
Ames, IA	91.4	95.1	79.9	86.1	93.1	110.2	7.3
Anchorage, AK	104.5	100.3	120.7	106.7	103.5	126.0	5.3
Ann Arbor, MI	98.0	93.3	112.0	97.8	97.9	118.0	3.9
Anniston-Oxford, AL	87.2	95.1	49.7	91.2	98.7	105.1	7.6
Appleton, WI	93.6	93.1	81.6	90.4	98.0	112.8	5.7
Asheville, NC	96.1	96.5	92.4	84.2	98.1	115.8	5.4
Athens-Clarke County, GA	93.3	95.9	77.9	88.1	98.0	112.4	3.6
Atlanta-Sandy Springs-Alpharetta, GA	100.9	99.8	110.9	98.1	99.0	121.6	6.1
Atlantic City-Hammonton, NJ	97.2	98.5	91.4	109.2	97.9	117.1	2.4
Auburn-Opelika, AL	88.9	95.1	58.2	89.8	98.7	107.1	3.8
Augusta-Richmond County, GA-SC	91.0	95.8	67.8	88.2	97.8	109.7	3.0
Austin-Round Rock-Georgetown, TX	97.6	91.9	126.4	89.5	95.3	117.6	2.6
Bakersfield, CA	102.2	104.6	88.0	142.7	104.3	123.2	1.6
Baltimore-Columbia-Towson, MD	102.7	102.2	116.9	110.3	98.5	123.7	4.0
Bangor, ME	91.5	96.6	56.2	144.8	103.0	110.2	-1.7
Barnstable Town, MA	105.8	97.5	124.2	158.8	101.6	127.5	1.0
Baton Rouge, LA	90.8	92.0	77.2	76.3	95.3	109.4	2.0
Battle Creek, MI	88.2	93.3	56.9	96.7	97.9	106.3	2.3
Bay City, MI	90.6	93.3	65.5	96.2	97.9	109.1	6.5
Beaumont-Port Arthur, TX	90.2	91.9	76.1	89.4	95.3	108.7	2.8
Beckley, WV	89.6	95.4	58.7	88.0	99.4	108.0	5.5
Bellingham, WA	104.1	104.8	109.6	87.0	102.9	125.5	2.1
Bend, OR	105.8	104.6	115.0	91.1	104.2	127.5	1.7
Billings, MT	89.6	94.3	73.0	72.4	93.5	108.0	1.5
Binghamton, NY	91.6	98.1	66.1	131.5	97.6	110.4	3.3
Birmingham-Hoover, AL	92.6	95.1	72.1	90.7	98.7	111.5	5.2
Bismarck, ND	89.6	95.9	75.8	74.5	90.4	108.0	2.1
Blacksburg-Christiansburg, VA	90.7	96.7	67.4	88.3	98.4	109.2	1.2
Bloomington, IL	92.0	92.5	73.5	86.4	98.2	110.9	3.2
Bloomington, IN	93.4	94.1	81.2	87.3	97.6	112.5	4.2
Bloomsburg-Berwick, PA	90.3	98.5	60.0	115.9	97.6	108.9	5.2
Boise City, ID	93.4	93.9	98.0	68.1	92.9	112.6	2.9
Boston-Cambridge-Newton, MA-NH	111.6	104.7	148.2	172.4	106.1	134.4	3.2
Boulder, CO	99.9	94.3	148.7	79.1	93.0	120.3	3.7
Bowling Green, KY	90.5	95.2	66.1	81.0	98.3	109.1	5.2
Bremerton-Silverdale-Port Orchard, WA	107.5	104.8	132.7	82.6	102.9	129.6	2.6
Bridgeport-Stamford-Norwalk, CT	106.5	97.4	143.5	152.6	102.6	128.3	0.8
Brownsville-Harlingen, TX	85.2	91.9	55.7	88.3	95.3	102.6	3.9
Brunswick, GA	89.7	95.9	62.4	85.9	98.0	108.1	1.8
Buffalo-Cheektowaga, NY	94.4	98.1	75.9	129.2	97.6	113.7	4.3
Burlington, NC	92.7	96.5	75.0	85.7	98.1	111.8	4.6
Burlington-South Burlington, VT	100.0	96.3	101.7	121.8	101.4	120.5	-2.3
California-Lexington Park, MD	100.2	96.7	111.0	99.4	99.4	120.8	4.2
Canton-Massillon, OH	88.5	93.3	58.4	90.1	97.8	106.7	3.5
Cape Coral-Fort Myers, FL	102.6	95.6	126.7	90.7	99.5	123.6	4.5
Cape Girardeau, MO-IL	86.3	95.1	52.2	87.2	93.3	104.0	4.0
Carbondale-Marion, IL	87.2	92.5	54.4	89.7	98.2	105.1	4.3
Carson City, NV	94.1	94.6	93.4	90.3	94.1	113.3	3.3
Casper, WY	91.8	94.8	80.2	74.6	94.7	110.7	3.5

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2023

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Cedar Rapids, IA	90.0	95.1	71.3	88.5	93.1	108.4	3.8
Chambersburg-Waynesboro, PA	93.9	98.5	70.6	117.9	97.6	113.2	3.9
Champaign-Urbana, IL	90.8	92.5	68.7	88.9	98.2	109.4	3.0
Charleston, WV	88.4	95.4	50.5	88.2	99.4	106.5	3.7
Charleston-North Charleston, SC	100.6	95.6	123.3	85.5	97.4	121.3	5.4
Charlotte-Concord-Gastonia, NC-SC	97.0	96.3	97.0	85.4	98.0	116.9	4.0
Charlottesville, VA	98.6	96.7	104.6	89.1	98.4	118.8	4.9
Chattanooga, TN-GA	92.8	94.5	78.3	78.8	97.7	111.8	4.1
Cheyenne, WY	90.9	94.8	74.8	73.4	94.7	109.6	0.2
Chicago-Naperville-Elgin, IL-IN-WI	102.6	103.3	110.7	77.7	101.4	123.6	0.7
Chico, CA	104.6	104.6	100.8	147.2	104.3	126.1	4.2
Cincinnati, OH-KY-IN	94.1	93.5	83.8	88.3	97.9	113.4	4.4
Clarksville, TN-KY	92.1	94.9	75.7	78.0	97.8	111.0	5.0
Cleveland, TN	90.9	94.8	69.9	76.3	97.6	109.5	5.7
Cleveland-Elyria, OH	93.0	93.3	79.5	88.9	97.8	112.1	3.7
Coeur d'Alene, ID	96.9	93.9	117.1	68.3	92.9	116.7	7.3
College Station-Bryan, TX	90.7	91.9	77.6	89.4	95.3	109.3	1.9
Colorado Springs, CO	97.4	94.3	123.2	79.6	93.0	117.4	4.4
Columbia, MO	89.3	95.2	65.9	88.4	93.3	107.6	5.5
Columbia, SC	92.9	95.6	78.4	85.6	97.4	112.0	3.2
Columbus, GA-AL	88.8	96.0	58.4	88.7	98.2	107.0	3.1
Columbus, IN	90.3	94.1	63.2	87.7	97.6	108.8	3.8
Columbus, OH	94.5	93.3	87.1	89.8	97.8	113.9	4.2
Corpus Christi, TX	91.3	91.9	81.0	88.5	95.3	110.0	1.4
Corvallis, OR	106.4	104.6	119.1	92.1	104.2	128.2	4.1
Crestview-Fort Walton Beach-Destin, FL	98.0	95.6	99.1	92.3	99.5	118.1	3.8
Cumberland, MD-WV	85.8	96.3	49.2	95.5	99.4	103.4	2.6
Dallas-Fort Worth-Arlington, TX	103.3	105.0	117.8	96.7	98.3	124.5	3.5
Dalton, GA	90.3	95.9	62.9	88.5	98.0	108.8	3.7
Danville, IL	86.8	92.5	52.7	87.6	98.2	104.6	2.5
Daphne-Fairhope-Foley, AL	94.7	95.1	86.2	89.1	98.7	114.1	7.7
Davenport-Moline-Rock Island, IA-IL	89.3	94.9	65.9	92.1	93.9	107.6	4.4
Dayton-Kettering, OH	92.3	93.3	75.0	89.6	97.8	111.2	4.7
Decatur, AL	90.1	95.1	58.4	90.2	98.7	108.6	7.0
Decatur, IL	86.6	92.5	55.0	89.4	98.2	104.4	2.9
Deltona-Daytona Beach-Ormond Beach, FL	98.7	95.6	104.0	90.5	99.5	119.0	3.7
Denver-Aurora-Lakewood, CO	105.5	101.3	146.1	96.1	98.9	127.1	2.0
Des Moines-West Des Moines, IA	92.7	95.1	86.1	88.5	93.1	111.6	4.4
Detroit-Warren-Dearborn, MI	98.0	98.0	93.0	107.5	99.1	118.1	5.6
Dothan, AL	88.3	95.1	56.2	88.4	98.7	106.4	7.5
Dover, DE	91.7	95.9	69.4	95.8	97.7	110.4	0.0
Dubuque, IA	89.1	95.1	67.9	85.0	93.1	107.3	7.0
Duluth, MN-WI	87.0	95.8	64.5	90.0	91.6	104.8	2.1
Durham-Chapel Hill, NC	96.6	96.5	94.0	85.3	98.1	116.4	3.9
East Stroudsburg, PA	95.7	98.5	83.5	114.1	97.6	115.3	5.3
Eau Claire, WI	91.4	93.1	68.8	91.2	98.0	110.1	4.1
El Centro, CA	100.1	104.6	77.8	136.8	104.3	120.6	3.8
Elizabethtown-Fort Knox, KY	89.4	95.2	57.7	80.5	98.3	107.7	4.3
Elkhart-Goshen, IN	92.6	94.1	77.1	87.3	97.6	111.5	4.8
Elmira, NY	92.2	98.1	67.6	130.8	97.6	111.1	3.1
El Paso, TX	90.2	91.9	75.5	91.2	95.3	108.7	3.0
Enid, OK	86.1	92.2	58.2	80.5	95.4	103.8	4.5
Erie, PA	91.5	98.5	61.6	116.2	97.6	110.3	4.8
Eugene-Springfield, OR	103.5	104.6	101.8	88.0	104.2	124.7	2.6
Evansville, IN-KY	89.8	94.1	60.2	86.9	97.7	108.2	4.8
Fairbanks, AK	99.4	100.3	79.5	119.9	103.5	119.7	4.5
Fargo, ND-MN	89.4	95.9	73.4	78.5	90.6	107.7	5.5
Farmington, NM	86.5	95.4	57.7	77.0	93.7	104.2	1.7
Fayetteville, NC	91.4	96.5	70.0	83.1	98.1	110.1	4.1
Fayetteville-Springdale-Rogers, AR	91.0	92.1	75.8	82.1	95.2	109.6	3.9
Flagstaff, AZ	91.3	95.1	81.5	84.7	93.3	110.0	-0.8
Flint, MI	89.8	93.3	65.0	97.2	97.9	108.2	2.6

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2023

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Florence, SC	88.0	95.6	57.2	85.8	97.4	106.0	4.0
Florence-Muscle Shoals, AL	85.6	95.1	42.0	90.6	98.7	103.2	5.2
Fond du Lac, WI	92.8	93.1	77.6	90.2	98.0	111.9	7.7
Fort Collins, CO	96.6	94.3	116.9	78.9	93.0	116.4	2.1
Fort Smith, AR-OK	85.1	92.1	50.8	81.2	95.3	102.5	2.8
Fort Wayne, IN	90.0	94.1	62.3	86.7	97.6	108.4	0.7
Fresno, CA	104.0	104.6	96.5	143.8	104.3	125.3	2.6
Gadsden, AL	87.0	95.1	49.2	92.1	98.7	104.9	9.8
Gainesville, FL	96.9	95.6	92.5	92.9	99.5	116.8	4.4
Gainesville, GA	96.1	95.9	91.8	88.9	98.0	115.8	3.0
Gettysburg, PA	92.7	98.5	64.3	115.9	97.6	111.7	0.9
Glens Falls, NY	93.6	98.1	73.6	130.7	97.6	112.7	4.9
Goldsboro, NC	89.7	96.5	59.6	82.8	98.1	108.1	4.3
Grand Forks, ND-MN	86.2	95.9	56.9	77.3	90.7	103.9	3.0
Grand Island, NE	87.3	95.3	60.8	77.0	92.7	105.1	4.4
Grand Junction, CO	92.1	94.3	87.8	80.3	93.0	111.0	2.0
Grand Rapids-Kentwood, MI	95.2	93.3	90.8	93.6	97.9	114.7	4.7
Grants Pass, OR	100.7	104.6	87.1	88.3	104.2	121.3	1.7
Great Falls, MT	92.6	94.3	89.2	72.8	93.5	111.6	5.4
Greeley, CO	96.0	94.3	113.0	79.0	93.0	115.7	5.0
Green Bay, WI	92.1	93.1	73.9	90.4	98.0	110.9	5.5
Greensboro-High Point, NC	92.7	96.5	74.1	84.5	98.1	111.7	4.0
Greenville, NC	91.6	96.5	70.2	82.8	98.1	110.4	8.0
Greenville-Anderson, SC	92.8	95.6	76.9	86.7	97.4	111.8	3.6
Gulfport-Biloxi, MS	89.3	94.9	61.0	82.9	98.2	107.7	4.3
Hagerstown-Martinsburg, MD-WV	95.1	95.9	82.9	91.4	99.4	114.6	5.7
Hammond, LA	87.5	92.0	62.4	75.6	95.3	105.4	1.8
Hanford-Corcoran, CA	98.4	104.6	68.7	138.8	104.3	118.6	-0.2
Harrisburg-Carlisle, PA	96.5	98.5	85.6	118.3	97.6	116.3	4.5
Harrisonburg, VA	93.2	96.7	75.2	88.2	98.4	112.3	1.9
Hartford-East Hartford-Middletown, CT	102.6	97.4	108.5	151.5	102.6	123.6	1.6
Hattiesburg, MS	89.3	94.9	62.1	83.0	98.2	107.6	4.1
Hickory-Lenoir-Morganton, NC	89.2	96.5	60.1	83.0	98.1	107.5	3.5
Hilton Head Island-Bluffton, SC	95.7	95.6	93.2	85.6	97.4	115.3	0.0
Hinesville, GA	93.9	95.9	82.5	85.2	98.0	113.1	3.2
Homosassa Springs, FL	95.4	95.6	85.4	92.3	99.5	115.0	4.7
Hot Springs, AR	85.8	92.1	56.9	80.7	95.2	103.4	3.3
Houma-Thibodaux, LA	88.6	92.0	67.5	75.4	95.3	106.7	4.0
Houston-The Woodlands-Sugar Land, TX	100.2	103.4	106.5	95.1	96.3	120.8	5.2
Huntington-Ashland, WV-KY-OH	88.4	95.6	50.0	86.2	99.4	106.6	3.7
Huntsville, AL	94.4	95.1	81.1	89.9	98.7	113.7	5.5
Idaho Falls, ID	89.9	93.9	79.2	67.9	92.9	108.4	2.7
Indianapolis-Carmel-Anderson, IN	94.6	94.1	86.9	87.3	97.6	114.0	4.6
Iowa City, IA	91.8	95.1	81.6	87.8	93.1	110.6	4.4
Ithaca, NY	98.9	98.1	101.3	131.3	97.6	119.2	4.1
Jackson, MI	92.7	93.3	77.9	99.7	97.9	111.7	5.2
Jackson, MS	90.7	94.9	67.1	84.8	98.2	109.3	4.1
Jackson, TN	87.3	94.8	56.6	75.7	97.6	105.2	4.4
Jacksonville, FL	99.2	95.6	108.0	91.8	99.5	119.5	4.5
Jacksonville, NC	91.6	96.5	71.3	82.2	98.1	110.4	3.0
Janesville-Beloit, WI	91.4	93.1	70.7	90.7	98.0	110.1	3.3
Jefferson City, MO	87.7	95.2	57.6	86.2	93.3	105.6	4.6
Johnson City, TN	88.9	94.8	63.6	76.6	97.6	107.1	5.5
Johnstown, PA	88.1	98.5	47.2	118.5	97.6	106.1	4.6
Jonesboro, AR	85.7	92.1	55.5	80.3	95.2	103.2	2.8
Joplin, MO	85.6	95.2	50.8	86.7	93.3	103.2	4.7
Kahului-Wailuku-Lahaina, HI	106.3	106.9	112.2	187.5	101.9	128.1	1.4
Kalamazoo-Portage, MI	94.0	93.3	82.5	98.8	97.9	113.2	2.9
Kankakee, IL	92.3	92.5	74.0	85.7	98.2	111.2	3.9
Kansas City, MO-KS	93.3	95.0	88.1	92.0	93.6	112.4	5.2
Kennewick-Richland, WA	99.0	104.8	83.2	82.0	102.9	119.3	-1.6
Killeen-Temple, TX	91.8	91.9	83.4	88.1	95.3	110.6	4.2

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	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Kingsport-Bristol, TN-VA	85.4	95.1	51.0	79.6	97.8	102.8	2.7
Kingston, NY	99.0	98.1	101.4	132.0	97.6	119.3	3.5
Knoxville, TN	92.8	94.8	79.1	76.5	97.6	111.8	5.4
Kokomo, IN	89.7	94.1	61.9	87.3	97.6	108.0	7.2
La Crosse-Onalaska, WI-MN	91.3	93.0	71.2	89.5	97.9	110.0	3.8
Lafayette, LA	87.0	92.0	59.4	75.8	95.3	104.8	0.8
Lafayette-West Lafayette, IN	91.5	94.1	71.0	87.4	97.6	110.3	3.3
Lake Charles, LA	86.7	92.0	57.0	75.4	95.3	104.5	0.7
Lake Havasu City-Kingman, AZ	89.9	95.1	77.8	82.6	93.3	108.3	0.6
Lakeland-Winter Haven, FL	97.4	95.6	95.9	91.2	99.5	117.3	5.1
Lancaster, PA	96.3	98.5	84.9	116.3	97.6	116.0	3.5
Lansing-East Lansing, MI	92.8	93.3	76.5	95.5	97.9	111.9	2.5
Laredo, TX	87.8	91.9	64.3	88.6	95.3	105.8	1.2
Las Cruces, NM	89.3	95.4	71.3	77.2	93.7	107.7	6.9
Las Vegas-Henderson-Paradise, NV	97.4	94.6	116.1	91.1	94.1	117.4	4.8
Lawrence, KS	91.0	94.8	74.2	94.6	94.1	109.6	2.4
Lawton, OK	87.6	92.2	62.7	80.0	95.4	105.6	6.6
Lebanon, PA	95.3	98.5	77.9	118.5	97.6	114.9	6.5
Lewiston, ID-WA	87.2	94.1	69.3	69.0	93.0	105.1	6.3
Lewiston-Auburn, ME	100.1	96.6	95.1	145.7	103.0	120.6	2.6
Lexington-Fayette, KY	93.1	95.2	74.4	81.4	98.3	112.2	5.9
Lima, OH	87.6	93.3	52.9	89.5	97.8	105.5	1.6
Lincoln, NE	92.0	95.3	83.6	81.0	92.7	110.8	3.7
Little Rock-North Little Rock-Conway, AR	89.1	92.1	67.3	81.5	95.2	107.3	3.5
Logan, UT-ID	92.9	93.1	92.2	72.9	94.3	112.0	4.0
Longview, TX	88.4	91.9	66.0	89.4	95.3	106.5	6.0
Longview, WA	99.4	104.8	86.5	82.9	102.9	119.8	1.8
Los Angeles-Long Beach-Anaheim, CA	115.5	107.9	173.0	135.3	107.1	139.1	5.8
Louisville/Jefferson County, KY-IN	94.0	95.0	81.1	82.2	98.4	113.3	5.6
Lubbock, TX	90.9	91.9	77.2	90.2	95.3	109.5	3.0
Lynchburg, VA	90.3	96.7	64.4	88.4	98.4	108.8	3.0
Macon-Bibb County, GA	90.0	95.9	64.0	89.4	98.0	108.5	3.6
Madera, CA	102.9	104.6	91.4	144.4	104.3	124.0	3.7
Madison, WI	95.8	93.1	96.0	89.9	98.0	115.4	4.0
Manchester-Nashua, NH	105.1	97.4	127.8	151.1	103.8	126.6	0.9
Manhattan, KS	90.3	94.8	71.9	92.6	94.1	108.8	4.7
Mankato, MN	87.6	95.9	64.0	91.1	91.6	105.6	2.3
Mansfield, OH	86.6	93.3	49.5	90.4	97.8	104.4	2.5
McAllen-Edinburg-Mission, TX	85.6	91.9	57.0	88.1	95.3	103.1	2.5
Medford, OR	103.3	104.6	100.9	88.8	104.2	124.5	1.4
Memphis, TN-MS-AR	92.4	94.8	77.5	77.5	97.7	111.4	4.4
Merced, CA	99.5	104.6	76.9	142.7	104.3	119.9	0.4
Miami-Fort Lauderdale-Pompano Beach, FL	111.8	102.9	156.4	98.1	105.8	134.7	3.8
Michigan City-La Porte, IN	92.1	94.1	75.0	88.0	97.6	110.9	7.8
Midland, MI	90.6	93.3	65.5	96.2	97.9	109.1	6.5
Midland, TX	94.8	91.9	101.9	89.9	95.3	114.2	2.6
Milwaukee-Waukesha, WI	95.5	93.1	94.1	91.5	98.0	115.1	4.2
Minneapolis-St. Paul-Bloomington, MN-WI	104.5	104.8	110.3	90.9	103.3	125.9	5.7
Missoula, MT	93.1	94.3	92.8	73.4	93.5	112.2	7.2
Mobile, AL	89.4	95.1	60.4	90.1	98.7	107.7	6.0
Modesto, CA	105.0	104.6	103.7	134.8	104.3	126.5	2.8
Monroe, LA	83.6	92.0	44.2	76.8	95.3	100.7	-0.1
Monroe, MI	93.2	93.3	77.8	95.5	97.9	112.3	3.7
Montgomery, AL	90.8	95.1	65.7	90.8	98.7	109.4	4.8
Morgantown, WV	92.3	95.4	66.1	90.1	99.4	111.2	3.6
Morristown, TN	87.7	94.8	57.4	76.1	97.6	105.7	3.8
Mount Vernon-Anacortes, WA	106.0	104.8	121.6	85.1	102.9	127.7	4.1
Muncie, IN	88.8	94.1	61.2	87.2	97.6	107.0	4.5
Muskegon, MI	91.7	93.3	73.5	93.1	97.9	110.5	3.6
Myrtle Beach-Conway-North Myrtle Beach, SC-NC	92.8	95.8	80.7	84.8	97.6	111.8	2.4
Napa, CA	111.8	104.6	161.9	138.7	104.3	134.7	2.7
Naples-Marco Island, FL	105.8	95.6	146.2	91.0	99.5	127.5	6.9

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2023

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Nashville-Davidson--Murfreesboro--Franklin, TN	97.4	94.8	107.3	76.5	97.6	117.4	4.7
New Bern, NC	89.9	96.5	66.0	83.0	98.1	108.4	2.9
New Haven-Milford, CT	103.5	97.4	113.5	150.9	102.6	124.7	2.1
New Orleans-Metairie, LA	91.1	92.0	79.7	77.2	95.3	109.8	1.1
New York-Newark-Jersey City, NY-NJ-PA	112.5	109.5	149.3	130.0	105.8	135.5	3.3
Niles, MI	89.7	93.3	64.1	95.4	97.9	108.1	5.6
North Port-Sarasota-Bradenton, FL	103.6	95.6	137.6	91.0	99.5	124.9	5.9
Norwich-New London, CT	100.4	97.4	93.9	155.7	102.6	121.0	0.4
Ocala, FL	95.5	95.6	86.0	92.8	99.5	115.1	5.5
Ocean City, NJ	101.5	98.5	111.4	110.4	97.9	122.3	2.1
Odessa, TX	92.1	91.9	83.5	90.2	95.3	110.9	1.6
Ogden-Clearfield, UT	95.1	93.0	107.0	73.3	94.4	114.6	4.7
Oklahoma City, OK	91.0	92.2	78.1	80.5	95.4	109.6	3.4
Olympia-Lacey-Tumwater, WA	106.5	104.8	125.9	81.9	102.9	128.3	2.8
Omaha-Council Bluffs, NE-IA	92.5	95.2	87.3	81.3	92.7	111.5	4.3
Orlando-Kissimmee-Sanford, FL	101.1	95.6	121.0	91.3	99.5	121.8	4.4
Oshkosh-Neenah, WI	90.7	93.1	65.4	89.0	98.0	109.3	3.1
Owensboro, KY	90.0	95.2	58.9	81.2	98.3	108.5	5.8
Oxnard-Thousand Oaks-Ventura, CA	113.5	104.6	177.7	130.2	104.3	136.7	2.9
Palm Bay-Melbourne-Titusville, FL	100.8	95.6	118.9	91.2	99.5	121.5	5.3
Panama City, FL	98.0	95.6	99.3	91.3	99.5	118.1	4.3
Parkersburg-Vienna, WV	88.2	95.4	50.1	90.8	99.4	106.3	5.0
Pensacola-Ferry Pass-Brent, FL	95.6	95.6	84.6	92.7	99.5	115.1	4.0
Peoria, IL	88.6	92.5	57.8	88.3	98.2	106.8	2.3
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	103.5	100.3	117.8	119.9	101.5	124.8	6.8
Phoenix-Mesa-Chandler, AZ	105.5	98.4	124.3	83.0	106.2	127.1	5.5
Pine Bluff, AR	80.3	92.1	39.2	81.8	95.2	96.8	2.4
Pittsburgh, PA	94.4	98.5	73.5	117.9	97.6	113.8	4.5
Pittsfield, MA	93.0	97.5	60.7	152.8	101.6	112.0	-3.5
Pocatello, ID	87.8	93.9	70.9	68.0	92.9	105.7	4.3
Portland-South Portland, ME	103.6	96.6	119.6	141.9	103.0	124.8	2.6
Portland-Vancouver-Hillsboro, OR-WA	106.6	104.6	124.6	91.0	103.9	128.5	1.7
Port St. Lucie, FL	101.7	95.6	122.5	91.5	99.5	122.5	7.3
Poughkeepsie-Newburgh-Middletown, NY	109.7	109.4	119.0	137.0	106.4	132.2	3.5
Prescott Valley-Prescott, AZ	95.0	95.1	100.6	85.4	93.3	114.5	6.5
Providence-Warwick, RI-MA	100.9	97.0	98.9	147.9	102.2	121.5	1.1
Provo-Orem, UT	95.0	93.0	107.4	72.7	94.4	114.5	3.9
Pueblo, CO	92.4	94.3	90.1	79.8	93.0	111.3	6.1
Punta Gorda, FL	98.4	95.6	101.9	90.0	99.5	118.6	6.5
Racine, WI	95.0	93.1	92.0	89.8	98.0	114.5	8.5
Raleigh-Cary, NC	98.0	96.5	104.0	84.4	98.1	118.1	3.4
Rapid City, SD	90.3	96.1	77.1	81.1	91.8	108.8	3.4
Reading, PA	96.0	98.5	82.7	118.7	97.6	115.7	3.5
Redding, CA	102.8	104.6	90.5	142.4	104.3	123.9	2.9
Reno, NV	97.4	94.6	118.7	88.5	94.1	117.4	2.9
Richmond, VA	98.0	96.7	101.0	88.8	98.4	118.1	4.2
Riverside-San Bernardino-Ontario, CA	107.9	104.3	132.0	156.6	101.6	130.0	5.0
Roanoke, VA	90.9	96.7	67.6	89.5	98.4	109.6	2.3
Rochester, MN	93.1	95.9	92.9	90.1	91.6	112.2	5.0
Rochester, NY	97.7	98.1	93.5	131.6	97.6	117.7	6.4
Rockford, IL	90.1	92.5	64.9	85.5	98.2	108.5	3.0
Rocky Mount, NC	88.2	96.5	51.8	85.3	98.1	106.3	4.8
Rome, GA	90.2	95.9	60.4	89.6	98.0	108.7	3.1
Sacramento-Roseville-Folsom, CA	108.9	104.6	133.5	132.7	104.3	131.2	2.9
Saginaw, MI	89.3	93.3	59.3	96.7	97.9	107.6	6.3
St. Cloud, MN	89.3	95.9	74.9	90.6	91.6	107.6	1.0
St. George, UT	96.1	93.0	110.4	71.6	94.4	115.7	5.1
St. Joseph, MO-KS	87.8	95.1	59.3	90.5	93.3	105.8	4.6
St. Louis, MO-IL	96.3	101.9	80.3	81.9	98.2	116.0	3.4
Salem, OR	102.4	104.6	95.3	90.4	104.2	123.4	1.4
Salinas, CA	113.0	104.6	166.6	135.2	104.3	136.1	3.7
Salisbury, MD-DE	95.1	96.2	86.8	97.1	98.3	114.6	3.7

Table 4. Regional Price Parities and Implicit Regional Price Deflators, by Metropolitan Area, 2023

	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Salt Lake City, UT	96.4	93.0	118.6	72.9	94.4	116.2	4.4
San Angelo, TX	90.9	91.9	78.9	89.4	95.3	109.5	1.9
San Antonio-New Braunfels, TX	93.7	91.9	94.2	88.5	95.3	112.9	2.4
San Diego-Chula Vista-Carlsbad, CA	111.5	103.5	185.8	154.2	100.7	134.3	1.0
San Francisco-Oakland-Berkeley, CA	118.2	117.2	200.2	157.5	105.7	142.5	3.9
San Jose-Sunnyvale-Santa Clara, CA	112.9	104.6	213.0	135.2	104.3	136.0	1.7
San Luis Obispo-Paso Robles, CA	110.8	104.6	149.6	127.1	104.3	133.5	2.1
Santa Cruz-Watsonville, CA	112.6	104.6	175.1	133.8	104.3	135.7	1.9
Santa Fe, NM	93.4	95.4	90.9	75.9	93.7	112.5	2.1
Santa Maria-Santa Barbara, CA	113.5	104.6	175.5	128.0	104.3	136.7	3.4
Santa Rosa-Petaluma, CA	110.1	104.6	146.6	136.0	104.3	132.6	1.6
Savannah, GA	95.6	95.9	89.9	86.5	98.0	115.2	3.2
Scranton--Wilkes-Barre, PA	93.0	98.5	68.8	116.7	97.6	112.0	5.0
Seattle-Tacoma-Bellevue, WA	113.0	107.9	151.5	85.3	108.2	136.1	2.8
Sebastian-Vero Beach, FL	96.9	95.6	93.3	92.1	99.5	116.8	5.5
Sebring-Avon Park, FL	91.3	95.6	66.5	92.0	99.5	110.0	5.4
Sheboygan, WI	90.8	93.1	67.3	88.8	98.0	109.4	5.1
Sherman-Denison, TX	91.8	91.9	82.9	89.6	95.3	110.6	3.1
Shreveport-Bossier City, LA	87.1	92.0	59.7	78.1	95.3	105.0	1.9
Sierra Vista-Douglas, AZ	86.7	95.1	63.9	86.4	93.3	104.4	2.2
Sioux City, IA-NE-SD	88.1	95.2	62.2	85.3	92.8	106.2	4.3
Sioux Falls, SD	90.3	96.1	74.8	81.0	91.8	108.8	3.9
South Bend-Mishawaka, IN-MI	91.4	93.9	71.4	88.3	97.6	110.1	2.8
Spartanburg, SC	90.6	95.6	69.2	86.1	97.4	109.2	3.0
Spokane-Spokane Valley, WA	101.0	104.8	93.6	82.4	102.9	121.7	2.3
Springfield, IL	90.5	92.5	65.2	87.7	98.2	109.1	4.7
Springfield, MA	98.4	97.5	84.1	155.2	101.6	118.6	3.1
Springfield, MO	89.3	95.2	68.0	86.4	93.3	107.6	6.8
Springfield, OH	88.7	93.3	58.5	90.9	97.8	106.8	3.7
State College, PA	93.2	98.5	72.4	118.4	97.6	112.3	0.4
Staunton, VA	92.6	96.7	75.1	89.3	98.4	111.6	5.1
Stockton, CA	107.4	104.6	120.2	139.0	104.3	129.4	2.8
Sumter, SC	86.3	95.6	54.2	86.0	97.4	103.9	1.7
Syracuse, NY	95.2	98.1	79.6	131.7	97.6	114.7	5.7
Tallahassee, FL	95.3	95.6	82.8	93.0	99.5	114.8	4.8
Tampa-St. Petersburg-Clearwater, FL	103.4	101.3	123.3	95.3	99.4	124.6	7.5
Terre Haute, IN	88.2	94.1	55.9	87.4	97.6	106.3	5.4
Texarkana, TX-AR	85.3	92.0	54.9	86.0	95.3	102.8	3.8
The Villages, FL	94.3	95.6	80.2	91.2	99.5	113.6	7.4
Toledo, OH	90.4	93.3	65.5	89.3	97.8	108.9	3.9
Topeka, KS	85.9	94.8	53.4	93.8	94.1	103.5	2.0
Trenton-Princeton, NJ	102.1	98.5	128.1	111.9	97.9	123.0	5.2
Tucson, AZ	94.3	95.1	98.0	83.0	93.3	113.7	4.4
Tulsa, OK	89.5	92.2	69.4	80.9	95.4	107.8	2.6
Tuscaloosa, AL	90.0	95.1	63.1	90.3	98.7	108.4	7.1
Twin Falls, ID	88.6	93.9	74.2	68.1	92.9	106.7	1.2
Tyler, TX	92.4	91.9	86.0	89.8	95.3	111.3	4.2
Urban Honolulu, HI	110.2	106.9	143.7	189.9	101.9	132.8	1.2
Utica-Rome, NY	92.3	98.1	67.5	131.3	97.6	111.2	6.6
Valdosta, GA	86.7	95.9	51.8	85.5	98.0	104.5	0.4
Vallejo, CA	109.2	104.6	135.7	136.1	104.3	131.6	0.7
Victoria, TX	90.6	91.9	76.6	89.2	95.3	109.2	3.4
Vineland-Bridgeton, NJ	93.7	98.5	75.5	109.0	97.9	113.0	4.8
Virginia Beach-Norfolk-Newport News, VA-NC	97.4	96.7	97.5	88.5	98.4	117.3	3.2
Visalia, CA	101.3	104.6	82.9	140.7	104.3	122.1	2.7
Waco, TX	90.8	91.9	78.3	88.8	95.3	109.4	1.1
Walla Walla, WA	98.0	104.8	77.8	82.6	102.9	118.1	1.2
Warner Robins, GA	91.6	95.9	70.0	85.6	98.0	110.3	2.7
Washington-Arlington-Alexandria, DC-VA-MD-WV	108.6	105.0	151.3	105.8	101.7	130.9	1.4
Waterloo-Cedar Falls, IA	88.0	95.1	62.2	86.8	93.1	106.0	3.9
Watertown-Fort Drum, NY	90.5	98.1	64.2	129.4	97.6	109.1	0.1
Wausau-Weston, WI	90.1	93.1	65.4	89.7	98.0	108.6	3.3

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	Regional price parities					Implicit regional price deflators ¹	
	All items	Goods	Services			All items	Percent change from previous year
			Housing	Utilities	Other		
Weirton-Steubenville, WV-OH	88.8	95.8	51.1	90.4	99.5	107.0	3.5
Wenatchee, WA	102.0	104.8	97.6	84.9	102.9	122.9	2.8
Wheeling, WV-OH	89.0	95.7	50.9	90.3	99.4	107.2	3.6
Wichita, KS	89.5	94.8	66.0	92.8	94.1	107.8	4.5
Wichita Falls, TX	88.9	91.9	65.9	89.8	95.3	107.1	4.4
Williamsport, PA	92.7	98.5	66.8	117.1	97.6	111.7	7.3
Wilmington, NC	97.1	96.5	98.2	82.7	98.1	117.1	4.0
Winchester, VA-WV	94.3	96.5	80.2	89.0	98.6	113.7	2.1
Winston-Salem, NC	91.4	96.5	68.8	83.5	98.1	110.1	3.0
Worcester, MA-CT	102.0	97.5	106.8	156.9	101.7	122.9	1.1
Yakima, WA	98.0	104.8	80.1	81.3	102.9	118.1	0.9
York-Hanover, PA	96.6	98.5	86.8	115.9	97.6	116.4	5.0
Youngstown-Warren-Boardman, OH-PA	86.0	93.1	50.7	91.5	97.8	103.6	2.9
Yuba City, CA	103.6	104.6	94.9	144.6	104.3	124.9	4.8
Yuma, AZ	87.5	95.1	65.5	81.3	93.3	105.4	5.7
Maximum	118.2	117.2	213.0	189.9	108.2	142.5	9.8
Minimum	80.3	91.9	39.2	67.9	90.4	96.8	-3.5
Range	37.9	25.3	173.8	122.1	17.8	45.7	13.3

1. The implicit price deflator for the United States is equal to the national personal consumption expenditures price index, with a base of 2017.

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

Note. Metropolitan areas are defined (geographically delineated) by the Office of Management and Budget (OMB) Bulletin No. 20-01, issued March 6, 2020.

U.S. Bureau of Economic Analysis