

## Technical Note

# **Quarterly Personal Income by State and Quarterly Gross Domestic Product by State, First Quarter of 2016 Through Third Quarter of 2021 Reposting: February 3, 2022**

This Technical Note provides information about the reposting of the third-quarter estimates of state personal income and gross domestic product (GDP). The news release packages and data on our website were reposted today to correct personal income and GDP estimates for the first quarter of 2016 through the third quarter of 2021 due to a data processing error involving industry wage and salary estimates. Annual estimates of personal income and GDP were not impacted. Under Bureau of Economic Analysis (BEA) methodology, state quarterly industry estimates of wages are based on data from the Quarterly Census of Employment and Wages (QCEW), for available quarters, from the Bureau of Labor Statistics (BLS) and data from the Current Employment Statistics (CES), also from BLS, for quarters where QCEW data are not yet available.

The data processing error impacted the state quarterly industry estimates of wages because the state quarterly data from the QCEW and CES were not properly incorporated. In addition to the industry wage estimates, five components of state personal income also were impacted and corrected. These components use the state quarterly industry wage estimates as an indicator in the preparation of quarterly estimates. These components are:

1. Employer contributions for employee pension and insurance funds
2. Employer contributions for government social insurance
3. Employee and self-employed contributions for government social insurance
4. Construction industry proprietors' income
5. Adjustment for residence

All other components of state personal income were not impacted and were unchanged.

The state quarterly GDP estimates also were impacted because all components of state quarterly earnings by industry were corrected. Under BEA methodology, state quarterly GDP estimates are based on BEA's state quarterly earnings by industry estimates. BEA does not revise state quarterly GDP

estimates with subsequent quarterly releases; updates to quarterly estimates only occur during the annual update of the state GDP estimates released in the fall of each year with the second-quarter release. With this reposting, the state quarterly GDP estimates incorporated the correction to the quarterly wage estimates due to the data processing error and incorporated updated quarterly wage estimates based on QCEW data into the first- and second-quarter state estimates of wages for 2021. Typically, the state quarterly GDP estimates for 2021 would not incorporate the QCEW-based wage estimates until the state GDP release for the second quarter scheduled for September 30, 2022.

Table 1 shows revisions to third-quarter 2021 state personal income. Table 2 shows revisions to third-quarter 2021 state GDP. The tables show the revisions in third-quarter growth rates, at annual rates, and in state rankings. The revisions to state personal income are smaller due to several personal income components not changing, while for state GDP, the principal indicator for all industries, state earnings by industry did change. The news releases and highlights have been corrected to include the updated state personal income and GDP estimates. While the text and specific states and industries mentioned in the documents have not changed, the statistics in them have been updated.

**Table 1. Percent Change from Preceding Quarter in  
Personal Income, by State and Region**

[Seasonally adjusted at annual rates]

	Released on December 17, 2021		Released on February 3, 2022	
	2021:Q3 <sup>p</sup>	Rank 2021:Q3	2021:Q3 <sup>p</sup>	Rank 2021:Q3
<b>United States</b>	<b>2.6</b>	<b>--</b>	<b>2.6</b>	<b>--</b>
<b>New England</b>	<b>1.3</b>	<b>--</b>	<b>1.3</b>	<b>--</b>
Connecticut	2.1	28	2.0	28
Maine	0.8	40	0.9	40
Massachusetts	1.9	29	1.9	29
New Hampshire	-3.5	49	-3.4	49
Rhode Island	2.8	20	2.8	20
Vermont	-1.9	48	-2.0	48
<b>Mideast</b>	<b>2.6</b>	<b>--</b>	<b>2.6</b>	<b>--</b>
Delaware	5.5	4	5.5	4
District of Columbia	3.0	--	2.9	--
Maryland	3.8	13	3.7	13
New Jersey	4.4	8	4.4	8
New York	1.3	37	1.3	37
Pennsylvania	2.8	21	2.8	21
<b>Great Lakes</b>	<b>2.1</b>	<b>--</b>	<b>2.1</b>	<b>--</b>
Illinois	4.2	9	4.2	9
Indiana	4.4	7	4.5	6
Michigan	-1.8	47	-1.8	47
Ohio	1.0	39	1.0	39
Wisconsin	2.7	23	2.7	22
<b>Plains</b>	<b>0.3</b>	<b>--</b>	<b>0.3</b>	<b>--</b>
Iowa	-0.8	45	-0.8	46
Kansas	1.6	32	1.6	33
Minnesota	1.7	31	1.6	32
Missouri	-0.4	43	-0.4	43
Nebraska	0.7	42	0.7	42
North Dakota	-4.3	50	-4.5	50
South Dakota	-0.7	44	-0.6	44
<b>Southeast</b>	<b>2.9</b>	<b>--</b>	<b>2.9</b>	<b>--</b>
Alabama	2.5	24	2.6	24
Arkansas	2.9	19	2.9	18

Florida	2.4	26	2.4	26
Georgia	0.8	41	0.8	41
Kentucky	6.7	1	6.7	1
Louisiana	4.2	10	4.1	10
Mississippi	-0.8	46	-0.7	45
North Carolina	5.3	5	5.3	5
South Carolina	1.5	35	1.5	34
Tennessee	3.7	14	3.7	14
Virginia	3.5	16	3.4	16
West Virginia	1.9	30	1.9	30
<b>Southwest</b>	<b>3.7</b>	<b>--</b>	<b>3.7</b>	<b>--</b>
Arizona	3.9	12	4.0	12
New Mexico	3.4	18	3.3	17
Oklahoma	1.2	38	1.1	38
Texas	4.0	11	4.0	11
<b>Rocky Mountain</b>	<b>5.0</b>	<b>--</b>	<b>5.0</b>	<b>--</b>
Colorado	5.9	2	5.8	2
Idaho	3.5	15	3.6	15
Montana	1.6	33	1.6	31
Utah	5.7	3	5.7	3
Wyoming	1.3	36	1.3	36
<b>Far West</b>	<b>2.8</b>	<b>--</b>	<b>2.8</b>	<b>--</b>
Alaska	2.4	25	2.4	25
California	2.8	22	2.9	19
Hawaii	3.4	17	2.7	23
Nevada	1.5	34	1.4	35
Oregon	4.5	6	4.4	7
Washington	2.1	27	2.0	27

p Preliminary

Source. U.S. Bureau of Economic Analysis

**Table 2. Percent Change from Preceding Quarter in Real Gross Domestic Product, by State and Region**

[Seasonally adjusted at annual rates]

	Released on December 23, 2021		Released on February 3, 2022	
	2021:Q3 <sup>P</sup>	Rank 2021:Q3	2021:Q3 <sup>P</sup>	Rank 2021:Q3
<b>United States</b>	<b>2.3</b>	<b>--</b>	<b>2.3</b>	<b>--</b>
<b>New England</b>	<b>2.6</b>	<b>--</b>	<b>2.5</b>	<b>--</b>
Connecticut	2.7	15	2.5	15
Maine	1.7	25	1.8	24
Massachusetts	3.7	3	3.8	4
New Hampshire	-3.3	49	-3.7	50
Rhode Island	2.2	20	2.2	21
Vermont	0.4	35	0.6	34
<b>Mideast</b>	<b>2.5</b>	<b>--</b>	<b>2.6</b>	<b>--</b>
Delaware	4.7	2	5.1	2
District of Columbia	3.9	--	4.0	--
Maryland	1.8	24	1.8	25
New Jersey	3.7	4	3.8	5
New York	2.2	21	2.3	20
Pennsylvania	2.2	19	2.4	18
<b>Great Lakes</b>	<b>0.8</b>	<b>--</b>	<b>0.9</b>	<b>--</b>
Illinois	1.9	22	2.1	22
Indiana	0.2	36	0.4	35
Michigan	-0.3	39	-0.2	40
Ohio	0.9	31	1.0	30
Wisconsin	-0.2	38	0.0	37
<b>Plains</b>	<b>0.8</b>	<b>--</b>	<b>0.6</b>	<b>--</b>
Iowa	0.5	34	-0.5	41
Kansas	-0.3	40	-0.8	43
Minnesota	1.8	23	2.0	23
Missouri	1.6	27	1.6	27
Nebraska	0.8	32	0.0	38
North Dakota	-3.3	50	-2.8	49
South Dakota	-0.8	45	-1.0	44
<b>Southeast</b>	<b>2.4</b>	<b>--</b>	<b>2.4</b>	<b>--</b>
Alabama	1.3	28	1.6	26
Arkansas	0.7	33	0.9	32
Florida	3.7	5	3.8	3
Georgia	3.3	8	3.1	9

Kentucky	1.1	29	1.0	31
Louisiana	-2.7	48	-2.4	48
Mississippi	0.2	37	0.6	33
North Carolina	2.4	17	2.4	16
South Carolina	1.6	26	1.6	28
Tennessee	3.1	10	3.1	10
Virginia	2.8	12	2.9	11
West Virginia	-0.6	44	-1.9	47
<b>Southwest</b>	<b>3.1</b>	<b>--</b>	<b>3.3</b>	<b>--</b>
Arizona	3.2	9	3.4	8
New Mexico	-0.5	41	-0.1	39
Oklahoma	1.0	30	1.3	29
Texas	3.5	6	3.7	6
<b>Rocky Mountain</b>	<b>1.6</b>	<b>--</b>	<b>1.7</b>	<b>--</b>
Colorado	2.3	18	2.4	17
Idaho	-1.0	46	-1.2	45
Montana	-0.6	43	-0.5	42
Utah	2.7	14	2.8	12
Wyoming	-1.5	47	-1.2	46
<b>Far West</b>	<b>2.9</b>	<b>--</b>	<b>2.7</b>	<b>--</b>
Alaska	-0.6	42	0.4	36
California	2.9	11	2.7	14
Hawaii	6.0	1	6.0	1
Nevada	2.6	16	2.7	13
Oregon	3.5	7	3.5	7
Washington	2.7	13	2.3	19

p Preliminary

Note. The reference year for real (chained-dollar) gross domestic product is 2012.

Source. U.S. Bureau of Economic Analysis