



Issue Brief 20-23, September 28, 2020

Final FY 2022 FMAPs

Trinity Tomsic • 202-624-8577 • ttomsic@ffis.org

Summary

The Bureau of Economic Analysis (BEA) [released](#) revised state personal income data for 2019. The federal government uses state per capita income to calculate each state's federal reimbursement rate—the Federal Medical Assistance Percentage (FMAP)—for Medicaid and other grant programs. The Children's Health Insurance Program (CHIP) uses an enhanced FMAP, which is higher than the Medicaid matching rate.

The BEA release facilitates calculation of the final fiscal year (FY) 2022 FMAPs and enhanced FMAPs, which are based on per capita incomes for calendar years (CYs) 2017-2019.

This *Issue Brief* summarizes the BEA data and provides FFIS's estimates of the final FY 2022 FMAPs and enhanced FMAPs. FFIS estimates that FMAPs will increase in 26 states and decline in 11, ranging from a +1.90 percentage-point change in **Vermont** to a -1.01 percentage-point change in **Texas**.

Of note, the FY 2022 FMAPs are based on personal income data prior to the COVID-19 pandemic. Additionally, the base FMAPs and enhanced FMAPs do not reflect a 6.2 percentage-point increase provided in the Families First Coronavirus Response Act (FFCRA). These temporary FMAPs are presented in a separate section of the brief.

FY 2022 FMAPs

The FMAP is the share of state Medicaid benefit costs paid by the federal government (alternate matching rates are provided for certain jurisdictions, populations, and services, as well as special situations; more details are available [here](#)). It also represents the federal share of Title IV-E foster care and adoption assistance maintenance payments. Additionally, the FMAP is used to determine the Medicare Part D "clawback," the federal share of certain child support enforcement collections, Temporary Assistance for Needy Families (TANF) contingency funds, and the matching portion of the Child Care and Development Fund (CCDF).

The FMAP is calculated based on a three-year average of state per capita personal income compared to the national average. The FY 2022 FMAPs rely on per capita personal income for CYs 2017-2019. To receive an increase in the FMAP, a state must experience a decline in its share of U.S. average per capita income. A state with average per capita income receives an FMAP of 55%; no state can receive less than 50% or more than 83%. There are statutorily set FMAPs for the District of Columbia (70%) and territories (55%). Territories also are subject to Medicaid spending caps. However, recent legislation has

increased the spending caps and provided temporary increases in their Medicaid matching rates.

Table 1 at the end of the brief displays FMAPs for FYs 2018-2021, and FFIS's estimates for FY 2022. Highlights for FY 2022 include:

- FMAPs will increase in 26 states, with five seeing increases of greater than one percentage point: **Vermont** (1.90), **Michigan** and **Missouri** (1.40 each), **Nebraska** (1.33), and **North Dakota** (1.19).
- **Mississippi** retains the highest FMAP at 78.31, followed by **West Virginia** and **New Mexico**. Among these states, West Virginia is the only one to see an FMAP decrease in FY 2022.
- FMAPs will decline in 11 states. Only **Texas** will see more than a one percentage-point drop, followed by **Florida**, **Nevada**, and **Montana**. Although all these states saw below-average per capita income growth in 2019, they still had an increase in their share of U.S. average per capita income over the three-year period.
- **Alabama**, **Texas**, and **West Virginia** will see decreases after several years of consecutive increases. In contrast, **Hawaii** will see its first increase since 2017.
- Twelve states remain at the statutory 50.00 FMAP minimum in FY 2022. Among them, **Virginia** is closest to exceeding the floor, with an unadjusted projected FMAP of 49.29. **Minnesota** will rise above the floor, to 50.51, in FY 2022.
- Since FY 2018, **Oklahoma** has seen more than a nine percentage-point increase in its FMAP. **Kansas** and **Nebraska** have seen more than five percentage-point increases. Conversely, **Oregon** and **Utah** have had the largest reductions.

The table below lists the change in each state's FMAP in FY 2022.

FY 2022 FMAP Percentage-Point Change							
Increases				Decreases		No Change	
Vermont	1.90	Pennsylvania	0.48	Texas	-1.01	Alaska	0.00
Michigan	1.40	Indiana	0.47	Florida	-0.93	Arizona	0.00
Missouri	1.40	Ohio	0.47	Nevada	-0.71	California	0.00
Nebraska	1.33	South Dakota	0.41	Montana	-0.70	Colorado	0.00
North Dakota	1.19	Arkansas	0.39	Utah	-0.69	Connecticut	0.00
Rhode Island	0.79	Iowa	0.39	Oregon	-0.62	District of Columbia	0.00
Kentucky	0.70	Oklahoma	0.32	West Virginia	-0.31	Maryland	0.00
Hawaii	0.62	Maine	0.31	Alabama	-0.21	Massachusetts	0.00
Louisiana	0.60	Tennessee	0.26	Idaho	-0.20	New Hampshire	0.00
Mississippi	0.55	New Mexico	0.25	Georgia	-0.18	New Jersey	0.00
Wisconsin	0.51	North Carolina	0.25	Delaware	-0.02	New York	0.00
Minnesota	0.51	Illinois	0.13			Virginia	0.00
Kansas	0.48	South Carolina	0.12			Washington	0.00
						Wyoming	0.00

Other factors affecting FMAPs. Changes in FMAPs primarily result from per capita personal income shifts and data revisions. However, the formula doesn't necessarily capture recent economic trends because it relies on a three-year average and the data used to calculate the FMAP for a given year is outdated by the time the year begins. For example, FY 2022 FMAPs are based on data prior to the COVID-19 pandemic. It will take several years for the economic effects of COVID-19 to be fully reflected in the FMAPs.

FMAPs are also affected by other factors. For example, income changes in large wealthy states disproportionately affect the national average, which in turn affects FMAPs in other states. During the Great Recession, slow income growth in these large wealthy states made other states relatively wealthier (by reducing the national average), thereby reducing the less-wealthy states' FMAPs while having no impact on the wealthy states, which received the statutory minimum.

Population shifts from decennial census benchmarking can have a big impact. Data from the 2020 Census will be used to calculate FY 2023 FMAPs. Additionally, low or negative population growth in some states leads to relatively stronger per capita estimates, which can lead to lower FMAPs. For example, population losses contributed to the FY 2022 FMAP decline in **West Virginia**.

Finally, government transfer payments, such as Medicaid spending, are part of personal income. States that expanded coverage under the Affordable Care Act (ACA) have seen larger increases in Medicaid transfer receipts since 2014, although Medicaid benefit payments are a small share of personal income. Federal stimulus payments during an economic downturn can have a big impact. COVID-19 federal relief payments—such as economic payments to individuals, unemployment benefits, provider relief funds, and additional Medicaid funding—will increase transfer payments in subsequent years.

Enhanced FMAPs

CHIP uses an enhanced FMAP, subject to the availability of funds from a state's federal allotment. The enhanced FMAP is calculated by reducing each state's Medicaid share by 30%. In FY 2016 through FY 2019, ACA increased states' enhanced FMAPs by 23 percentage points (capped at 100%) for most CHIP expenditures. To phase out the ACA provision, subsequent legislation provided a transition year in FY 2020, when the enhanced FMAP increased by 11.5 percentage points. The matching rate will revert to the regular enhanced FMAP in FY 2021 and beyond, which is capped at 85%.

Enhanced FMAPs are displayed in Table 2. With the phase-out of the ACA increase, all states have seen significant reductions since FY 2019 (the last year of the full increase). Puerto Rico and the territories also see sizable drops in FY 2022 because their recent FMAP increases are set to expire at the end of FY 2021. FY 2022 changes in other states are relatively small and are a result of underlying FMAPs.

Temporary FMAP Increase

FFCRA provided states with a temporary 6.2 percentage-point increase in the base FMAP. It is in effect from January 1, 2020, through the last day of the calendar quarter in which the public health emergency (PHE) terminates. The current PHE renewal is effective through October 22, 2020. This means the

higher FMAPs will remain in effect through at least the end of December 2020, unless the secretary of the Department of Health and Human Services (HHS) declares the end of the PHE before October 1 (which is unlikely). The end of the PHE is uncertain due to possible renewals. The Congressional Budget Office (CBO), when developing its estimates, assumes the PHE will run through January 2022 (and the additional 6.2 FMAP through March 2022).

Table 3 provides FFIS’s calculations of the FMAPs with the temporary increase for FYs 2020-2022, although it’s uncertain whether the increases will apply beyond the first quarter of FY 2021. The temporary increase applies to all Medicaid expenditures and programs, such as Foster Care and Adoption Assistance, that rely on the FMAP rate (see HHS [guidance](#) for details).

Table 4 provides FFIS calculations of the enhanced FMAPs with the temporary increase. Of note:

- The 6.2 percentage-point increase is not added to the enhanced FMAPs. Instead, it is incorporated into the formula for calculating the enhanced matching rate. As a result, the increase is smaller than 6.2 percentage-points.
- Two enhanced FMAPs are shown for FY 2020: with and without the previously enacted 11.5 percentage-point increase for FY 2020. As mentioned earlier, this bump was provided as a transition from the 23 percentage-point increase included in the ACA that expired in FY 2019. The matching rate without the 11.5 percentage-point increase is used for optional breast and cervical cancer expenditures.
- The caps on federal matching rates still apply (85% and, for the 11.5 percentage-point increase, 100%).

Personal Income Data

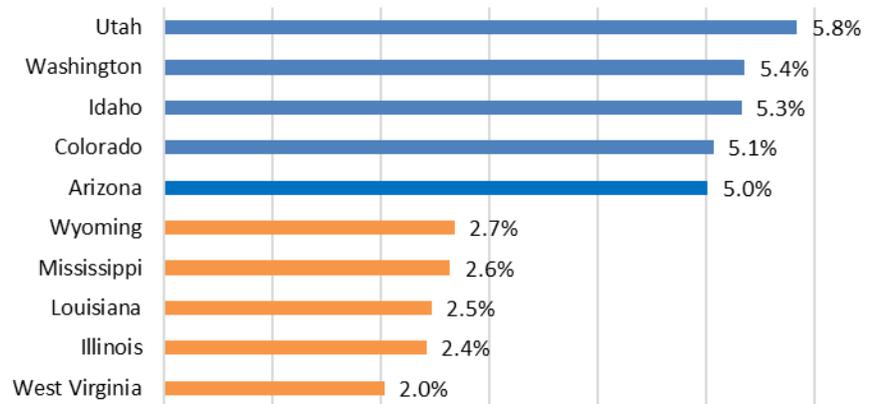
Personal income data are produced by BEA as part of the National Income and Product Accounts (NIPAs). State personal income is the income received by all persons in a state from all sources, including net earnings by place of residence, rental income, dividends, interest, and transfer payments. Nationally, personal income growth declined from 5.3% in 2018 to 3.9% in 2019, as shown on the table below.

U.S. Personal Income										
(\$ in billions)										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Amount	\$12,542	\$13,315	\$13,998	\$14,176	\$14,983	\$15,717	\$16,152	\$16,938	\$17,839	\$18,542
% Change		6.2%	5.1%	1.3%	5.7%	4.9%	2.8%	4.9%	5.3%	3.9%

Nationally, the largest contributors to earnings growth in 2019 were professional services, health care and social assistance, and state and local government. No sector had negative earnings growth.

Table 5 shows the personal income of states and regions for 2017-2019. The Southwest, Rocky Mountains, and Far West performed above the national average in 2019. State personal income growth in 2018 ranged from 2% in **West Virginia** to 5.8% in **Utah**. The next chart lists the states with the strongest and weakest growth in 2019.

Strongest and Weakest Personal Income Growth, 2019



Utah saw notable increases in professional services and construction. **Washington** experienced significant gains in information services, and state and local government. **Idaho** benefited from strong growth in health care and social assistance, and professional services. **Colorado’s** growth was a result of professional services, and state and local government. **Arizona** saw significant increases in health care and social assistance, and construction. In contrast, states at the bottom, including **Mississippi**, **Louisiana**, and **Illinois**, experienced significant declines in farm earnings. **Wyoming** saw reductions in transportation and management of companies, and **West Virginia** in construction and mining.

Table 6 shows BEA’s revisions to the preliminary data (which were released in March) by state. The revisions reflect the results of the annual update to state personal income, as well as revised source data that are more complete and include updated seasonal factors. Overall, personal income was revised slightly downward for 2019 and upward for 2017 and 2018. **Montana** had the largest upward revision in 2019 (1.4%), while many states had downward revisions.

Per Capita Personal Income

Nationally, per capita personal income grew 3.5% to \$56,490 in 2019, as shown below.

U.S. Per Capita Personal Income										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Amount	\$40,547	\$42,739	\$44,605	\$44,860	\$47,071	\$49,019	\$50,015	\$52,118	\$54,606	\$56,490
% Change		5.4%	4.4%	0.6%	4.9%	4.1%	2.0%	4.2%	4.8%	3.5%

The following chart lists the states with the strongest and weakest per capita personal income growth in 2019, which ranged from 4.5% in **California** and **New York** to 2.3% in **Nevada**.

Strongest and Weakest Per Capita Personal Income Growth, 2019

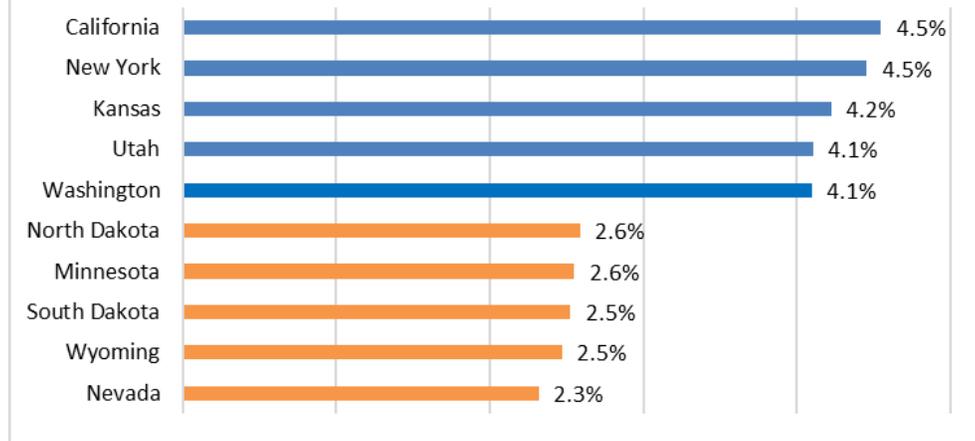


Table 7 provides detail by state and region. It also shows how each state’s per capita personal income compares to the national average. Per capita income growth is affected both by income and population, and by adjustments in both. Some states, such as **Alaska, Pennsylvania, and Rhode Island**, had personal income growth less than the national average in 2019, but negative or slow population growth resulted in per capita growth rates greater than the average. In contrast, **Idaho, Florida, Nevada, and Texas** are examples of states that had higher-than-average personal income growth but per capita growth rates less than the national average due to strong population increases.

Next Steps

The FMAPs for FY 2022 will be final once they are published in the *Federal Register*, usually in November. FFIS will calculate projected FMAPs for FY 2023 next spring, when preliminary per capita personal income data for 2023 are released. The FY 2023 FMAPs could see dramatic shifts, as they will incorporate effects from the decennial Census and the COVID-19 pandemic.

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Table 1

FMAPs, 2018-2022

(federal fiscal years, federal share as a percent)

State	2018	2019	2020	2021	2022	Change		Addendum: 2022 FMAP
						2018-2022	2021-2022	Without Floors
Alabama	71.44	71.88	71.97	72.58	72.37	0.93	-0.21	72.37
Alaska	50.00	50.00	50.00	50.00	50.00	0.00	0.00	44.93
Arizona	69.89	69.81	70.02	70.01	70.01	0.12	0.00	70.01
Arkansas	70.87	70.51	71.42	71.23	71.62	0.75	0.39	71.62
California	50.00	50.00	50.00	50.00	50.00	0.00	0.00	38.45
Colorado	50.00	50.00	50.00	50.00	50.00	0.00	0.00	47.88
Connecticut	50.00	50.00	50.00	50.00	50.00	0.00	0.00	15.33
Delaware	56.43	57.55	57.86	57.74	57.72	1.29	-0.02	57.72
District of Columbia	70.00	70.00	70.00	70.00	70.00	0.00	0.00	N/A
Florida	61.79	60.87	61.47	61.96	61.03	-0.76	-0.93	61.03
Georgia	68.50	67.62	67.30	67.03	66.85	-1.65	-0.18	66.85
Hawaii	54.78	53.92	53.47	53.02	53.64	-1.14	0.62	53.64
Idaho	71.17	71.13	70.34	70.41	70.21	-0.96	-0.20	70.21
Illinois	50.74	50.31	50.14	50.96	51.09	0.35	0.13	51.09
Indiana	65.59	65.96	65.84	65.83	66.30	0.71	0.47	66.30
Iowa	58.48	59.93	61.20	61.75	62.14	3.66	0.39	62.14
Kansas	54.74	57.10	59.16	59.68	60.16	5.42	0.48	60.16
Kentucky	71.17	71.67	71.82	72.05	72.75	1.58	0.70	72.75
Louisiana	63.69	65.00	66.86	67.42	68.02	4.33	0.60	68.02
Maine	64.34	64.52	63.80	63.69	64.00	-0.34	0.31	64.00
Maryland	50.00	50.00	50.00	50.00	50.00	0.00	0.00	40.23
Massachusetts	50.00	50.00	50.00	50.00	50.00	0.00	0.00	22.33
Michigan	64.78	64.45	64.06	64.08	65.48	0.70	1.40	65.48
Minnesota	50.00	50.00	50.00	50.00	50.51	0.51	0.51	50.51
Mississippi	75.65	76.39	76.98	77.76	78.31	2.66	0.55	78.31
Missouri	64.61	65.40	65.65	64.96	66.36	1.75	1.40	66.36
Montana	65.38	65.54	64.78	65.60	64.90	-0.48	-0.70	64.90
Nebraska	52.55	52.58	54.72	56.47	57.80	5.25	1.33	57.80
Nevada	65.75	64.87	63.93	63.30	62.59	-3.16	-0.71	62.59
New Hampshire	50.00	50.00	50.00	50.00	50.00	0.00	0.00	42.98
New Jersey	50.00	50.00	50.00	50.00	50.00	0.00	0.00	30.18
New Mexico	72.16	72.26	72.71	73.46	73.71	1.55	0.25	73.71
New York	50.00	50.00	50.00	50.00	50.00	0.00	0.00	28.19
North Carolina	67.61	67.16	67.03	67.40	67.65	0.04	0.25	67.65
North Dakota	50.00	50.00	50.05	52.40	53.59	3.59	1.19	53.59
Ohio	62.78	63.09	63.02	63.63	64.10	1.32	0.47	64.10
Oklahoma	58.57	62.38	66.02	67.99	68.31	9.74	0.32	68.31
Oregon	63.62	62.56	61.23	60.84	60.22	-3.40	-0.62	60.22
Pennsylvania	51.82	52.25	52.25	52.20	52.68	0.86	0.48	52.68
Rhode Island	51.45	52.57	52.95	54.09	54.88	3.43	0.79	54.88
South Carolina	71.58	71.22	70.70	70.63	70.75	-0.83	0.12	70.75
South Dakota	55.34	56.71	57.62	58.28	58.69	3.35	0.41	58.69
Tennessee	65.82	65.87	65.21	66.10	66.36	0.54	0.26	66.36
Texas	56.88	58.19	60.89	61.81	60.80	3.92	-1.01	60.80
Utah	70.26	69.71	68.19	67.52	66.83	-3.43	-0.69	66.83
Vermont	53.47	53.89	53.86	54.57	56.47	3.00	1.90	56.47
Virginia	50.00	50.00	50.00	50.00	50.00	0.00	0.00	49.29
Washington	50.00	50.00	50.00	50.00	50.00	0.00	0.00	41.93
West Virginia	73.24	74.34	74.94	74.99	74.68	1.44	-0.31	74.68
Wisconsin	58.77	59.37	59.36	59.37	59.88	1.11	0.51	59.88
Wyoming	50.00	50.00	50.00	50.00	50.00	0.00	0.00	45.63
Puerto Rico 1/	55.00	55.00	76.00	76.00	55.00	0.00	-21.00	N/A
Territories 1/	55.00	55.00	83.00	83.00	55.00	0.00	-28.00	N/A

1/ This table shows the temporary increase provided to Puerto Rico and territories in FY 2020 appropriations (76% for Puerto Rico and 83% for other territories for December 21, 2019-September 30, 2021). In addition, Puerto Rico and the territories received 100% for October 1, 2019-December 20, 2019.

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Table 2

Enhanced FMAPs, 2019-2022

(federal fiscal years, federal share as a percent)

State	2019 1/		2020 1/		2021	2022	Percentage-Point Change	
	w/o ACA Increase	w/ ACA Increase	w/o ACA Increase	w/ ACA Increase			2021-2022	2019-2022
Alabama	80.32	100.00	80.38	91.88	80.81	80.66	-0.15	-19.34
Alaska	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Arizona	78.87	100.00	79.01	90.51	79.01	79.01	0.00	-20.99
Arkansas	79.36	100.00	79.99	91.49	79.86	80.13	0.27	-19.87
California	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Colorado	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Connecticut	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Delaware	70.29	93.29	70.50	82.00	70.42	70.40	-0.01	-22.88
District of Columbia	79.00	100.00	79.00	90.50	79.00	79.00	0.00	-21.00
Florida	72.61	95.61	73.03	84.53	73.37	72.72	-0.65	-22.89
Georgia	77.33	100.00	77.11	88.61	76.92	76.80	-0.13	-23.21
Hawaii	67.74	90.74	67.43	78.93	67.11	67.55	0.43	-23.20
Idaho	79.79	100.00	79.24	90.74	79.29	79.15	-0.14	-20.85
Illinois	65.22	88.22	65.10	76.60	65.67	65.76	0.09	-22.45
Indiana	76.17	99.17	76.09	87.59	76.08	76.41	0.33	-22.76
Iowa	71.95	94.95	72.84	84.34	73.23	73.50	0.27	-21.45
Kansas	69.97	92.97	71.41	82.91	71.78	72.11	0.34	-20.86
Kentucky	80.17	100.00	80.27	91.77	80.44	80.93	0.49	-19.08
Louisiana	75.50	98.50	76.80	88.30	77.19	77.61	0.42	-20.89
Maine	75.16	98.16	74.66	86.16	74.58	74.80	0.22	-23.36
Maryland	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Massachusetts	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Michigan	75.12	98.12	74.84	86.34	74.86	75.84	0.98	-22.28
Minnesota	65.00	88.00	65.00	76.50	65.00	65.36	0.36	-22.64
Mississippi	83.47	100.00	83.89	95.39	84.43	84.82	0.39	-15.18
Missouri	75.78	98.78	75.96	87.46	75.47	76.45	0.98	-22.33
Montana	75.88	98.88	75.35	86.85	75.92	75.43	-0.49	-23.45
Nebraska	66.81	89.81	68.30	79.80	69.53	70.46	0.93	-19.35
Nevada	75.41	98.41	74.75	86.25	74.31	73.81	-0.50	-24.60
New Hampshire	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
New Jersey	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
New Mexico	80.58	100.00	80.90	92.40	81.42	81.60	0.17	-18.40
New York	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
North Carolina	77.01	100.00	76.92	88.42	77.18	77.36	0.17	-22.65
North Dakota	65.00	88.00	65.04	76.54	66.68	67.51	0.83	-20.49
Ohio	74.16	97.16	74.11	85.61	74.54	74.87	0.33	-22.29
Oklahoma	73.67	96.67	76.21	87.71	77.59	77.82	0.22	-18.85
Oregon	73.79	96.79	72.86	84.36	72.59	72.15	-0.43	-24.64
Pennsylvania	66.58	89.58	66.58	78.08	66.54	66.88	0.34	-22.70
Rhode Island	66.80	89.80	67.07	78.57	67.86	68.42	0.55	-21.38
South Carolina	79.85	100.00	79.49	90.99	79.44	79.53	0.08	-20.48
South Dakota	69.70	92.70	70.33	81.83	70.80	71.08	0.29	-21.61
Tennessee	76.11	99.11	75.65	87.15	76.27	76.45	0.18	-22.66
Texas	70.73	93.73	72.62	84.12	73.27	72.56	-0.71	-21.17
Utah	78.80	100.00	77.73	89.23	77.26	76.78	-0.48	-23.22
Vermont	67.72	90.72	67.70	79.20	68.20	69.53	1.33	-21.19
Virginia	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Washington	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
West Virginia	82.04	100.00	82.46	93.96	82.49	82.28	-0.22	-17.72
Wisconsin	71.56	94.56	71.55	83.05	71.56	71.92	0.36	-22.64
Wyoming	65.00	88.00	65.00	76.50	65.00	65.00	0.00	-23.00
Puerto Rico 2/	68.50	91.50	83.20	94.70	83.20	68.50	-14.70	-23.00
Territories 2/	68.50	91.50	85.00	99.60	85.00	68.50	-16.50	-23.00

1/ For FYs 2016-2019, ACA increased enhanced FMAPs by 23 percentage points (capped at 100%) for most CHIP expenditures. Subsequent legislation increased the enhanced FMAP by 11.5 percentage points in FY 2020. The matching rate without the increase is used for optional breast and cervical cancer expenditures.

2/ The FY 2020 and FY 2021 calculations for Puerto Rico and the territories are based on the temporary FMAP increases included in FY 2020 appropriations.

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Table 3

FMAPs with Temporary FFCRA Increase (federal fiscal years, federal share as a percent)

State	FY 2020	FY 2021 1/	FY 2022 1/
Alabama	78.17	78.78	78.57
Alaska	56.20	56.20	56.20
Arizona	76.22	76.21	76.21
Arkansas	77.62	77.43	77.82
California	56.20	56.20	56.20
Colorado	56.20	56.20	56.20
Connecticut	56.20	56.20	56.20
Delaware	64.06	63.94	63.92
District of Columbia	76.20	76.20	76.20
Florida	67.67	68.16	67.23
Georgia	73.50	73.23	73.05
Hawaii	59.67	59.22	59.84
Idaho	76.54	76.61	76.41
Illinois	56.34	57.16	57.29
Indiana	72.04	72.03	72.50
Iowa	67.40	67.95	68.34
Kansas	65.36	65.88	66.36
Kentucky	78.02	78.25	78.95
Louisiana	73.06	73.62	74.22
Maine	70.00	69.89	70.20
Maryland	56.20	56.20	56.20
Massachusetts	56.20	56.20	56.20
Michigan	70.26	70.28	71.68
Minnesota	56.20	56.20	56.71
Mississippi	83.18	83.96	84.51
Missouri	71.85	71.16	72.56
Montana	70.98	71.80	71.10
Nebraska	60.92	62.67	64.00
Nevada	70.13	69.50	68.79
New Hampshire	56.20	56.20	56.20
New Jersey	56.20	56.20	56.20
New Mexico	78.91	79.66	79.91
New York	56.20	56.20	56.20
North Carolina	73.23	73.60	73.85
North Dakota	56.25	58.60	59.79
Ohio	69.22	69.83	70.30
Oklahoma	72.22	74.19	74.51
Oregon	67.43	67.04	66.42
Pennsylvania	58.45	58.40	58.88
Rhode Island	59.15	60.29	61.08
South Carolina	76.90	76.83	76.95
South Dakota	63.82	64.48	64.89
Tennessee	71.41	72.30	72.56
Texas	67.09	68.01	67.00
Utah	74.39	73.72	73.03
Vermont	60.06	60.77	62.67
Virginia	56.20	56.20	56.20
Washington	56.20	56.20	56.20
West Virginia	81.14	81.19	80.88
Wisconsin	65.56	65.57	66.08
Wyoming	56.20	56.20	56.20
Puerto Rico	82.20	82.20	61.20
Territories	89.20	89.20	61.20

1/ The 6.2 percentage-point increase is effective January 1, 2020 through the last day of the calendar quarter in which the PHE terminates. The end of the PHE is uncertain due to possible renewals (it is currently effective through October 22, 2020).

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Table 4

Enhanced FMAPs with Temporary FFCRA Increase (federal fiscal years, federal share as a percent)

State	FY 2020 1/		FY 2021	FY 2022
	w/o ACA Increase	w/ ACA Increase		
Alabama	84.72	96.22	85.00	85.00
Alaska	69.34	80.84	69.34	69.34
Arizona	83.35	94.85	83.35	83.35
Arkansas	84.33	95.83	84.20	84.47
California	69.34	80.84	69.34	69.34
Colorado	69.34	80.84	69.34	69.34
Connecticut	69.34	80.84	69.34	69.34
Delaware	74.84	86.34	74.76	74.74
District of Columbia	83.34	94.84	83.34	83.34
Florida	77.37	88.87	77.71	77.06
Georgia	81.45	92.95	81.26	81.14
Hawaii	71.77	83.27	71.45	71.89
Idaho	83.58	95.08	83.63	83.49
Illinois	69.44	80.94	70.01	70.10
Indiana	80.43	91.93	80.42	80.75
Iowa	77.18	88.68	77.57	77.84
Kansas	75.75	87.25	76.12	76.45
Kentucky	84.61	96.11	84.78	85.00
Louisiana	81.14	92.64	81.53	81.95
Maine	79.00	90.50	78.92	79.14
Maryland	69.34	80.84	69.34	69.34
Massachusetts	69.34	80.84	69.34	69.34
Michigan	79.18	90.68	79.20	80.18
Minnesota	69.34	80.84	69.34	69.70
Mississippi	85.00	99.73	85.00	85.00
Missouri	80.30	91.80	79.81	80.79
Montana	79.69	91.19	80.26	79.77
Nebraska	72.64	84.14	73.87	74.80
Nevada	79.09	90.59	78.65	78.15
New Hampshire	69.34	80.84	69.34	69.34
New Jersey	69.34	80.84	69.34	69.34
New Mexico	85.00	96.74	85.00	85.00
New York	69.34	80.84	69.34	69.34
North Carolina	81.26	92.76	81.52	81.70
North Dakota	69.38	80.88	71.02	71.85
Ohio	78.45	89.95	78.88	79.21
Oklahoma	80.55	92.05	81.93	82.16
Oregon	77.20	88.70	76.93	76.49
Pennsylvania	70.92	82.42	70.88	71.22
Rhode Island	71.41	82.91	72.20	72.76
South Carolina	83.83	95.33	83.78	83.87
South Dakota	74.67	86.17	75.14	75.42
Tennessee	79.99	91.49	80.61	80.79
Texas	76.96	88.46	77.61	76.90
Utah	82.07	93.57	81.60	81.12
Vermont	72.04	83.54	72.54	73.87
Virginia	69.34	80.84	69.34	69.34
Washington	69.34	80.84	69.34	69.34
West Virginia	85.00	98.30	85.00	85.00
Wisconsin	75.89	87.39	75.90	76.26
Wyoming	69.34	80.84	69.34	69.34
Puerto Rico	85.00	99.04	85.00	72.84
Territories	85.00	100.00	85.00	72.84

1/ For most CHIP expenditures, the enhanced FMAP is increased by 11.5 percentage-points (capped at 100%) to phase out the 23 percentage-point increase included in the Affordable Care Act. Optional breast and cervical cancer expenditures are matched at the enhanced FMAP without the 11.5 percentage-point increase. In FY 2021, the matching rate reverts to the regular enhanced FMAP (capped at 85%).

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Table 5

Personal Income of States and Regions, 2017-2019

(calendar years, \$ in millions)

State	2017	2018	2019	Percent Change	
				2017-2018	2018-2019
Alabama	\$200,000	\$208,753	\$216,449	4.4%	3.7%
Alaska	42,454	44,370	45,945	4.5%	3.6%
Arizona	300,008	319,226	335,243	6.4%	5.0%
Arkansas	125,026	130,398	134,683	4.3%	3.3%
California	2,383,131	2,514,503	2,632,280	5.5%	4.7%
Colorado	312,046	335,196	352,185	7.4%	5.1%
Connecticut	256,349	267,346	275,557	4.3%	3.1%
Delaware	48,604	51,103	53,055	5.1%	3.8%
District of Columbia	55,051	56,996	58,864	3.5%	3.3%
Florida	1,016,819	1,082,702	1,125,984	6.5%	4.0%
Georgia	467,359	493,576	512,138	5.6%	3.8%
Hawaii	76,110	78,436	80,727	3.1%	2.9%
Idaho	72,605	77,993	82,148	7.4%	5.3%
Illinois	693,274	727,064	744,641	4.9%	2.4%
Indiana	301,238	316,837	327,713	5.2%	3.4%
Iowa	149,732	157,981	163,639	5.5%	3.6%
Kansas	142,186	149,239	155,648	5.0%	4.3%
Kentucky	182,116	188,877	195,549	3.7%	3.5%
Louisiana	205,188	215,309	220,630	4.9%	2.5%
Maine	62,146	65,335	68,062	5.1%	4.2%
Maryland	365,998	378,492	390,793	3.4%	3.3%
Massachusetts	469,501	494,177	511,334	5.3%	3.5%
Michigan	458,247	477,010	491,632	4.1%	3.1%
Minnesota	305,921	321,639	331,802	5.1%	3.2%
Mississippi	109,190	112,838	115,814	3.3%	2.6%
Missouri	276,888	288,385	298,620	4.2%	3.5%
Montana	48,623	51,117	53,168	5.1%	4.0%
Nebraska	97,032	101,846	105,454	5.0%	3.5%
Nevada	141,516	151,368	157,584	7.0%	4.1%
New Hampshire	79,253	83,199	86,345	5.0%	3.8%
New Jersey	577,408	602,870	625,938	4.4%	3.8%
New Mexico	83,142	87,205	90,847	4.9%	4.2%
New York	1,289,263	1,340,903	1,395,148	4.0%	4.0%
North Carolina	455,997	479,792	500,974	5.2%	4.4%
North Dakota	39,813	42,292	43,614	6.2%	3.1%
Ohio	546,006	569,184	586,784	4.2%	3.1%
Oklahoma	172,170	180,634	187,328	4.9%	3.7%
Oregon	202,052	215,365	224,346	6.6%	4.2%
Pennsylvania	681,659	717,255	742,924	5.2%	3.6%
Rhode Island	55,575	57,604	59,707	3.7%	3.7%
South Carolina	212,034	223,257	233,948	5.3%	4.8%
South Dakota	43,457	46,249	47,738	6.4%	3.2%
Tennessee	303,461	319,690	332,473	5.3%	4.0%
Texas	1,369,330	1,463,962	1,531,347	6.9%	4.6%
Utah	136,997	148,241	156,896	8.2%	5.8%
Vermont	32,277	33,423	34,502	3.5%	3.2%
Virginia	470,836	492,764	509,201	4.7%	3.3%
Washington	433,796	468,055	493,128	7.9%	5.4%
West Virginia	70,730	74,322	75,835	5.1%	2.0%
Wisconsin	285,250	299,827	309,909	5.1%	3.4%
Wyoming	32,724	35,054	35,993	7.1%	2.7%
Region					
New England	955,101	1,001,084	1,035,507	4.8%	3.4%
Mideast	3,017,983	3,147,619	3,266,721	4.3%	3.8%
Great Lakes	2,284,015	2,389,921	2,460,678	4.6%	3.0%
Plains	1,055,029	1,107,630	1,146,515	5.0%	3.5%
Southeast	3,818,755	4,022,276	4,173,677	5.3%	3.8%
Southwest	1,924,648	2,051,027	2,144,764	6.6%	4.6%
Rocky Mountains	602,994	647,601	680,390	7.4%	5.1%
Far West	3,279,058	3,472,097	3,634,009	5.9%	4.7%
United States	\$16,937,582	\$17,839,255	\$18,542,262	5.3%	3.9%

Source: Bureau of Economic Analysis

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Table 6

Personal Income Revisions, 2017-2019

(calendar years, \$ in millions)

	Personal Income Revisions (\$)			Personal Income Revisions (%)		
	2017	2018	2019	2017	2018	2019
Alabama	\$2,717	\$2,298	\$1,300	1.4%	1.1%	0.6%
Alaska	439	551	515	1.0	1.3	1.1
Arizona	394	1,313	-1,271	0.1	0.4	-0.4
Arkansas	342	101	-652	0.3	0.1	-0.5
California	13,018	374	-1,646	0.5	0.0	-0.1
Colorado	1,291	2,253	-1,102	0.4	0.7	-0.3
Connecticut	-1,731	-5,806	-6,410	-0.7	-2.1	-2.3
Delaware	415	320	215	0.9	0.6	0.4
District of Columbia	113	-609	-799	0.2	-1.1	-1.3
Florida	12,675	16,255	9,387	1.3	1.5	0.8
Georgia	3,604	4,612	393	0.8	0.9	0.1
Hawaii	420	-285	-616	0.6	-0.4	-0.8
Idaho	250	980	583	0.3	1.3	0.7
Illinois	3,550	2,875	-2,179	0.5	0.4	-0.3
Indiana	35	1,320	142	0.0	0.4	0.0
Iowa	541	-216	-2,432	0.4	-0.1	-1.5
Kansas	-56	-620	-77	0.0	-0.4	0.0
Kentucky	-489	-841	-1,107	-0.3	-0.4	-0.6
Louisiana	-39	-180	-2,549	0.0	-0.1	-1.1
Maine	-28	-119	-425	0.0	-0.2	-0.6
Maryland	1,422	-4,337	-6,307	0.4	-1.1	-1.6
Massachusetts	1,201	-587	-5,380	0.3	-0.1	-1.0
Michigan	-3,238	-7,020	-10,908	-0.7	-1.5	-2.2
Minnesota	126	-1,089	-4,788	0.0	-0.3	-1.4
Mississippi	440	-154	-1,351	0.4	-0.1	-1.2
Missouri	-2,546	-4,128	-5,727	-0.9	-1.4	-1.9
Montana	905	618	719	1.9	1.2	1.4
Nebraska	-119	-914	-689	-0.1	-0.9	-0.6
Nevada	2,067	2,149	857	1.5	1.4	0.5
New Hampshire	431	57	-514	0.5	0.1	-0.6
New Jersey	327	-5,014	-4,512	0.1	-0.8	-0.7
New Mexico	409	16	-1,380	0.5	0.0	-1.5
New York	3,240	-1,029	5,387	0.3	-0.1	0.4
North Carolina	2,228	930	-388	0.5	0.2	-0.1
North Dakota	38	144	-205	0.1	0.3	-0.5
Ohio	1,865	-543	-4,054	0.3	-0.1	-0.7
Oklahoma	572	-1,668	-2,412	0.3	-0.9	-1.3
Oregon	1,472	2,295	1,071	0.7	1.1	0.5
Pennsylvania	1,927	-2,818	-9,507	0.3	-0.4	-1.3
Rhode Island	237	-390	-191	0.4	-0.7	-0.3
South Carolina	735	1,068	640	0.3	0.5	0.3
South Dakota	183	182	33	0.4	0.4	0.1
Tennessee	1,901	2,175	-527	0.6	0.7	-0.2
Texas	11,864	18,692	8,936	0.9	1.3	0.6
Utah	453	1,818	1,743	0.3	1.2	1.1
Vermont	-184	-506	-872	-0.6	-1.5	-2.5
Virginia	2,658	452	-3,920	0.6	0.1	-0.8
Washington	-963	656	-1,061	-0.2	0.1	-0.2
West Virginia	511	513	-38	0.7	0.7	-0.1
Wisconsin	-238	-106	-2,074	-0.1	0.0	-0.7
Wyoming	85	182	-652	0.3	0.5	-1.8
United States	\$67,476	\$26,220	-\$56,800	0.4%	0.1%	-0.3%

Source: Bureau of Economic Analysis

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Table 7

Per Capita Personal Income, 2017-2019

(calendar years)

	2017	2018	2019	Percent Change		Share of National Average		
				2017-2018	2018-2019	2017	2018	2019
Alabama	\$41,030	\$42,710	\$44,145	4.1%	3.4%	78.7%	78.2%	78.1%
Alaska	57,394	60,355	62,806	5.2%	4.1%	110.1%	110.5%	111.2%
Arizona	42,590	44,597	46,058	4.7%	3.3%	81.7%	81.7%	81.5%
Arkansas	41,657	43,325	44,629	4.0%	3.0%	79.9%	79.3%	79.0%
California	60,549	63,720	66,619	5.2%	4.5%	116.2%	116.7%	117.9%
Colorado	55,604	58,896	61,157	5.9%	3.8%	106.7%	107.9%	108.3%
Connecticut	71,740	74,855	77,289	4.3%	3.3%	137.6%	137.1%	136.8%
Delaware	50,798	52,930	54,485	4.2%	2.9%	97.5%	96.9%	96.5%
District of Columbia	79,221	81,243	83,406	2.6%	2.7%	152.0%	148.8%	147.6%
Florida	48,504	50,964	52,426	5.1%	2.9%	93.1%	93.3%	92.8%
Georgia	44,894	46,957	48,236	4.6%	2.7%	86.1%	86.0%	85.4%
Hawaii	53,433	55,214	57,015	3.3%	3.3%	102.5%	101.1%	100.9%
Idaho	42,268	44,554	45,968	5.4%	3.2%	81.1%	81.6%	81.4%
Illinois	54,252	57,145	58,764	5.3%	2.8%	104.1%	104.6%	104.0%
Indiana	45,244	47,321	48,678	4.6%	2.9%	86.8%	86.7%	86.2%
Iowa	47,662	50,175	51,865	5.3%	3.4%	91.5%	91.9%	91.8%
Kansas	48,883	51,261	53,426	4.9%	4.2%	93.8%	93.9%	94.6%
Kentucky	40,904	42,338	43,770	3.5%	3.4%	78.5%	77.5%	77.5%
Louisiana	43,932	46,207	47,460	5.2%	2.7%	84.3%	84.6%	84.0%
Maine	46,565	48,792	50,634	4.8%	3.8%	89.3%	89.4%	89.6%
Maryland	60,758	62,708	64,640	3.2%	3.1%	116.6%	114.8%	114.4%
Massachusetts	68,442	71,801	74,187	4.9%	3.3%	131.3%	131.5%	131.3%
Michigan	45,948	47,777	49,228	4.0%	3.0%	88.2%	87.5%	87.1%
Minnesota	54,960	57,371	58,834	4.4%	2.6%	105.5%	105.1%	104.1%
Mississippi	36,536	37,852	38,914	3.6%	2.8%	70.1%	69.3%	68.9%
Missouri	45,342	47,109	48,656	3.9%	3.3%	87.0%	86.3%	86.1%
Montana	46,199	48,194	49,747	4.3%	3.2%	88.6%	88.3%	88.1%
Nebraska	50,645	52,890	54,515	4.4%	3.1%	97.2%	96.9%	96.5%
Nevada	47,650	50,000	51,161	4.9%	2.3%	91.4%	91.6%	90.6%
New Hampshire	58,759	61,471	63,502	4.6%	3.3%	112.7%	112.6%	112.4%
New Jersey	64,983	67,845	70,471	4.4%	3.9%	124.7%	124.2%	124.7%
New Mexico	39,747	41,670	43,326	4.8%	4.0%	76.3%	76.3%	76.7%
New York	65,814	68,657	71,717	4.3%	4.5%	126.3%	125.7%	127.0%
North Carolina	44,409	46,216	47,766	4.1%	3.4%	85.2%	84.6%	84.6%
North Dakota	52,736	55,788	57,232	5.8%	2.6%	101.2%	102.2%	101.3%
Ohio	46,829	48,747	50,199	4.1%	3.0%	89.9%	89.3%	88.9%
Oklahoma	43,794	45,843	47,341	4.7%	3.3%	84.0%	84.0%	83.8%
Oregon	48,762	51,500	53,191	5.6%	3.3%	93.6%	94.3%	94.2%
Pennsylvania	53,306	56,032	58,032	5.1%	3.6%	102.3%	102.6%	102.7%
Rhode Island	52,644	54,431	56,361	3.4%	3.5%	101.0%	99.7%	99.8%
South Carolina	42,227	43,912	45,438	4.0%	3.5%	81.0%	80.4%	80.4%
South Dakota	49,787	52,633	53,962	5.7%	2.5%	95.5%	96.4%	95.5%
Tennessee	45,233	47,210	48,684	4.4%	3.1%	86.8%	86.5%	86.2%
Texas	48,394	51,136	52,813	5.7%	3.3%	92.9%	93.6%	93.5%
Utah	44,178	47,008	48,939	6.4%	4.1%	84.8%	86.1%	86.6%
Vermont	51,697	53,531	55,293	3.5%	3.3%	99.2%	98.0%	97.9%
Virginia	55,631	57,964	59,657	4.2%	2.9%	106.7%	106.1%	105.6%
Washington	58,437	62,209	64,758	6.5%	4.1%	112.1%	113.9%	114.6%
West Virginia	38,927	41,192	42,315	5.8%	2.7%	74.7%	75.4%	74.9%
Wisconsin	49,264	51,628	53,227	4.8%	3.1%	94.5%	94.5%	94.2%
Wyoming	56,524	60,689	62,189	7.4%	2.5%	108.5%	111.1%	110.1%
Region								
New England	64,549	67,507	69,754	4.6%	3.3%	123.9%	123.6%	123.5%
Mideast	61,669	64,342	66,855	4.3%	3.9%	118.3%	117.8%	118.3%
Great Lakes	48,741	50,973	52,464	4.6%	2.9%	93.5%	93.3%	92.9%
Plains	49,609	51,879	53,509	4.6%	3.1%	95.2%	95.0%	94.7%
Southeast	45,657	47,715	49,159	4.5%	3.0%	87.6%	87.4%	87.0%
Southwest	46,531	49,045	50,670	5.4%	3.3%	89.3%	89.8%	89.7%
Rocky Mountains	49,991	52,936	54,873	5.9%	3.7%	95.9%	96.9%	97.1%
Far West	58,492	61,616	64,236	5.3%	4.3%	112.2%	112.8%	113.7%
U.S. Average	\$52,118	\$54,606	\$56,490	4.8%	3.5%	100.0%	100.0%	100.0%

Source: Bureau of Economic Analysis

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