

Exhibit R - Estimate of Federal Medicaid Assistance Percentage (FMAP)

Calendar Year	United States			Colorado			FMAP Forecast												
	Personal Income	Population	Per Capita Personal Income	Personal Income	Population	Per Capita Personal Income	Colorado 3-year Average Per Capita	U.S. 3-year Average Per Capita	(Colorado Average Per Capita) ²	(U.S. Average Per Capita) ²	CO APC ² /U.S. APC ²	*0.45	FMAP ⁽¹⁾ Calculation	eFMAP ⁽²⁾ Calculation	FFY/SFY	FFY FMAP ⁽³⁾	FFY eFMAP ⁽³⁾	SFY FMAP ⁽⁴⁾	SFY eFMAP ⁽⁴⁾
2000	\$8,652,600,000,000	282,162,411	\$30,665.32	\$147,234,259,000	4,338,831	\$33,934.08	-	-	-	-	-	-	-	-	2000-01	50.00%	65.00%	50.00%	65.00%
2001	\$9,005,600,000,000	284,968,955	\$31,602.04	\$154,409,814,000	4,444,513	\$34,741.67	-	-	-	-	-	-	-	-	2001-02	50.00%	65.00%	50.00%	65.00%
2002	\$9,159,000,000,000	287,623,193	\$31,843.53	\$154,765,500,000	4,504,709	\$34,356.38	\$34,344.04	\$31,370.30	\$1,179,513,083.52	\$984,095,722.09	119.89%	53.94%	50.00%	65.00%	2002-03	50.00%	65.00%	50.00%	65.00%
2003	\$9,487,500,000,000	290,107,933	\$32,703.35	\$157,543,201,000	4,555,084	\$34,586.23	\$34,561.45	\$32,049.64	\$1,194,492,443.64	\$1,027,179,424.13	116.29%	52.33%	50.00%	65.00%	2003-04	50.00%	65.00%	50.00%	65.00%
2004	\$10,035,100,000,000	292,805,298	\$34,272.26	\$163,427,008,000	4,608,811	\$35,459.69	\$34,800.77	\$32,939.71	\$1,211,093,592.59	\$1,085,024,494.88	111.62%	50.23%	50.00%	65.00%	2004-05	50.00%	65.00%	50.00%	65.00%
2005	\$10,598,200,000,000	295,516,599	\$35,863.30	\$174,771,645,000	4,662,534	\$37,484.26	\$35,843.39	\$34,279.64	\$1,284,748,606.69	\$1,175,093,718.53	109.33%	49.20%	50.80%	65.56%	2005-06	50.00%	65.00%	50.00%	65.00%
2006	\$11,381,700,000,000	298,379,912	\$38,144.99	\$188,803,293,000	4,745,660	\$39,784.41	\$37,576.12	\$36,093.52	\$1,411,964,794.25	\$1,302,742,185.99	108.38%	48.77%	51.23%	65.86%	2006-07	50.00%	65.00%	50.00%	65.00%
2007	\$12,007,841,900,000	301,231,207	\$39,862.54	\$201,227,297,000	4,821,784	\$41,732.96	\$39,667.21	\$37,956.94	\$1,573,487,549.18	\$1,440,729,294.16	109.21%	49.14%	50.86%	65.60%	2007-08	50.00%	65.00%	50.00%	65.00%
2008	\$12,442,000,000,000	304,093,966	\$40,914.98	\$207,772,729,000	4,901,938	\$42,385.83	\$41,301.07	\$39,640.84	\$1,705,778,383.14	\$1,571,396,195.91	108.55%	48.85%	51.15%	65.81%	2008-09	50.00%	65.00%	50.00%	65.00%
2009	\$12,591,000,000,000	306,771,529	\$41,043.57	\$198,147,196,000	4,976,853	\$39,813.75	\$41,310.85	\$40,607.03	\$1,706,586,327.72	\$1,648,930,885.42	103.50%	46.58%	53.42%	67.39%	2009-10	50.00%	65.00%	50.00%	65.00%
2010	\$12,551,600,000,000	309,348,193	\$40,574.34	\$204,691,900,000	5,049,935	\$40,533.57	\$40,911.05	\$40,844.30	\$1,673,714,012.10	\$1,668,256,842.49	100.33%	45.15%	54.85%	68.40%	2010-11	50.00%	65.00%	50.00%	65.00%
2011	\$13,263,000,000,000	311,663,358	\$42,555.53	\$222,571,956,000	5,119,538	\$43,475.01	\$41,274.11	\$41,391.15	\$1,703,552,156.29	\$1,713,227,298.32	99.44%	44.75%	55.25%	68.68%	2011-12	50.00%	65.00%	50.00%	65.00%
2012	\$14,010,100,000,000	313,998,379	\$44,618.38	\$236,687,388,000	5,191,086	\$45,594.97	\$43,201.18	\$42,582.75	\$1,866,341,953.39	\$1,813,290,597.56	102.93%	46.32%	53.68%	67.58%	2012-13	50.00%	65.00%	50.00%	65.00%
2013	\$14,181,100,000,000	316,204,908	\$44,847.82	\$248,958,974,000	5,268,413	\$47,255.02	\$45,441.67	\$44,007.24	\$2,064,945,372.39	\$1,936,637,172.42	106.63%	47.98%	52.02%	66.41%	2013-14	50.00%	65.00%	50.00%	65.00%
2014	\$14,991,800,000,000	318,563,456	\$47,060.64	\$271,101,038,000	5,350,118	\$50,671.97	\$47,840.65	\$45,508.95	\$2,288,727,792.42	\$2,071,064,530.10	110.51%	49.73%	50.27%	65.19%	2014-15	51.01%	65.71%	50.76%	65.53%
2015	\$15,719,500,000,000	320,896,618	\$48,986.18	\$284,142,915,000	5,448,055	\$52,154.93	\$50,027.31	\$46,964.88	\$2,502,731,745.84	\$2,205,699,953.41	113.47%	51.06%	50.00%	65.00%	2015-16	50.72%	65.59%	50.79%	65.53%
2016	\$16,125,100,000,000	323,127,513	\$49,903.21	\$289,620,855,000	5,538,180	\$52,295.31	\$51,707.40	\$48,650.01	\$2,673,655,214.76	\$2,366,823,473.00	112.96%	50.83%	50.00%	65.00%	2016-17	50.02%	65.01%	50.20%	65.13%
2017	\$16,830,900,000,000	325,511,000	\$51,706.09	\$306,411,131,000	5,609,445	\$54,624.14	\$53,024.79	\$50,198.49	\$2,811,628,354.54	\$2,519,888,398.28	111.58%	50.21%	50.00%	65.00%	2017-18	50.00%	65.00%	50.00%	65.00%
2018	\$17,588,000,000,000	327,892,000	\$53,639.61	\$324,183,000,000	5,689,227	\$56,981.90	\$54,633.78	\$51,749.64	\$2,984,849,917.09	\$2,678,025,240.13	111.46%	50.16%	50.00%	65.00%	2018-19	50.00%	65.00%	50.00%	65.00%
2019	\$18,325,000,000,000	330,269,000	\$55,485.07	\$342,546,000,000	5,769,985	\$59,366.88	\$56,990.97	\$53,610.26	\$3,247,970,661.54	\$2,874,059,977.27	113.01%	50.85%	50.00%	65.00%	2019-20	54.65%	84.51%	53.10%	67.17%
2020	\$18,850,000,000,000	332,639,000	\$56,668.04	\$360,353,000,000	5,816,300	\$61,955.71	\$59,434.83	\$55,264.24	\$3,532,499,017.13	\$3,054,136,222.78	115.66%	52.05%	50.00%	65.00%	2020-21	53.10%	67.17%	54.65%	68.26%
2021	\$18,680,000,000,000	334,998,000	\$55,761.53	\$359,632,000,000	5,916,483	\$60,784.76	\$60,702.45	\$55,971.55	\$3,684,787,436.00	\$3,132,814,409.40	117.62%	52.93%	50.00%	65.00%	2021-22	50.00%	65.00%	50.00%	65.00%
2022	\$19,689,000,000,000	337,342,000	\$58,365.10	\$379,052,000,000	5,996,435	\$63,212.89	\$61,984.45	\$56,931.56	\$3,842,072,041.80	\$3,241,202,524.03	118.54%	53.34%	50.00%	65.00%	2022-23	50.00%	65.00%	50.00%	65.00%

Definitions: FMAP: Federal Medicaid assistance percentage; eFMAP: Enhanced FMAP; SFY: State fiscal year; FFY: Federal fiscal year
 (1) FMAP is calculated with the following formula: $FMAP_{adj} = 1 - ((Per\ capita\ income_{adj}) / (Per\ capita\ income_{US})) * 0.45$, where per capita incomes are based on a rolling three-year average. (Source: <http://aspe.hhs.gov/health/reports/2014/FMAP2015/fmap15.cfm>)
 (2) eFMAP is calculated by lowering the State share under the regular FMAP rate by 30%. (Source: <http://aspe.hhs.gov/health/reports/2014/FMAP2015/fmap15.cfm>)
 (3) There is a lag between the time period that an FMAP is calculated in, and the time period it goes into effect. For example, the FFY 2014-15 FMAP of 51.01% was calculated based on data from CY 2012.
 (4) The SFY FMAP and eFMAP are calculated as one quarter of the previous FFY FMAP/eFMAP and three quarters of the current FFY FMAP/eFMAP. This is due to FMAP changes going into effect on the FFY on October 1, which is one quarter through the SFY.
 (5) FY 2022-23 estimated FMAP is calculated based on forecasts of Personal Income from "Forecast June 2020," Colorado General Assembly, June 19, 2020. Accessed August 12, 2020. <https://leg.colorado.gov/publications/forecast-june-2020>. U.S. Population forecasts come from US Census Bureau, "Table 1. Projected Population Size and Births, Deaths, and Migration," September 06, 2018. Accessed August 12, 2020. <https://www.census.gov/data/tables/2017/demo/popproj/2017-summary-tables.html>. Colorado population estimates comes from Colorado State Demography Office, "Population Forecasts - Years (2000 to 2050)," Colorado Demography, November 2018. Accessed August 12, 2020. <https://demography.dola.colorado.gov/population/population-totals-colorado-substate/#population-totals-for-colorado-and-sub-state-regions>.