

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

Calendar Year	United States			Colorado			FMAP Forecast										FFY/ SFY	FFY FMAP <sup>(3)</sup>	FFY eFMAP <sup>(3)</sup>	SFY FMAP <sup>(4)</sup>	SFY eFMAP <sup>(4)</sup>				
	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) <sup>2</sup>	(U.S. Average Per Capita) <sup>2</sup>	CO APC <sup>2</sup> / U.S. APC <sup>2</sup>	*0.45	FMAP <sup>(1)</sup> Calculation	eFMAP <sup>(2)</sup> Calculation											
	2000	\$8,634,847,000,000	282,162,411	\$30,602.40	\$148,128,340,000	4,338,831	\$34,140.15	-	-	-	-	-	-	-	-	-						-	-	-	-
2001	\$8,987,890,000,000	284,968,955	\$31,539.89	\$155,992,188,000	4,444,513	\$35,097.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2001-02	50.00%	65.00%	50.00%	65.00%
2002	\$9,150,761,000,000	287,625,193	\$31,814.88	\$157,172,883,000	4,504,709	\$34,890.80	\$34,709.55	\$31,319.06	\$1,204,752,861.20	\$980,883,519.28	122.82%	55.27%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2002-03	50.00%	65.00%	50.00%	65.00%
2003	\$9,484,225,000,000	290,107,933	\$32,692.06	\$160,369,195,000	4,555,084	\$35,206.64	\$35,065.05	\$32,015.61	\$1,229,557,731.50	\$1,024,999,283.67	119.96%	53.98%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2003-04	50.00%	65.00%	50.00%	65.00%
2004	\$10,047,876,000,000	292,805,298	\$34,315.90	\$167,793,881,000	4,608,811	\$36,407.20	\$35,501.55	\$32,940.95	\$1,260,360,052.40	\$1,085,106,186.90	116.15%	52.27%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2004-05	50.00%	65.00%	50.00%	65.00%
2005	\$10,610,320,000,000	295,516,599	\$35,904.31	\$179,089,828,000	4,662,534	\$38,410.41	\$36,674.75	\$34,304.09	\$1,345,037,287.56	\$1,176,770,590.73	114.30%	51.44%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2005-06	50.00%	65.00%	50.00%	65.00%
2006	\$11,381,350,000,000	298,379,912	\$38,143.82	\$192,161,658,000	4,745,660	\$40,492.08	\$38,436.56	\$36,121.34	\$1,477,369,144.63	\$1,304,751,203.40	113.23%	50.95%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2006-07	50.00%	65.00%	50.00%	65.00%
2007	\$11,995,419,000,000	301,231,207	\$39,821.30	\$203,034,950,000	4,821,784	\$42,107.85	\$40,336.78	\$37,956.48	\$1,627,055,820.77	\$1,440,694,373.99	112.94%	50.82%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2007-08	50.00%	65.00%	50.00%	65.00%
2008	\$12,492,705,000,000	304,093,966	\$41,081.73	\$213,342,148,000	4,901,938	\$43,522.00	\$42,040.64	\$39,682.28	\$1,767,415,411.61	\$1,574,683,346.00	112.24%	50.51%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2008-09	50.00%	65.00%	50.00%	65.00%
2009	\$12,079,444,000,000	306,771,529	\$39,376.03	\$206,385,419,000	4,976,853	\$41,469.06	\$42,366.30	\$40,093.02	\$1,794,903,375.69	\$1,607,450,252.72	111.66%	50.25%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2009-10	50.00%	65.00%	50.00%	65.00%
2010	\$12,459,613,000,000	309,348,193	\$40,276.99	\$211,419,677,000	5,050,289	\$41,862.89	\$42,284.65	\$40,244.92	\$1,787,991,625.62	\$1,619,653,585.81	110.39%	49.68%	50.32%	65.22%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2010-11	50.00%	65.00%	50.00%	65.00%
2011	\$13,233,436,000,000	311,663,358	\$42,460.67	\$227,052,222,000	5,120,193	\$44,344.47	\$42,558.81	\$40,704.56	\$1,811,252,308.62	\$1,656,861,204.79	109.32%	49.19%	50.81%	65.57%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2011-12	50.00%	65.00%	50.00%	65.00%
2012	\$13,915,100,000,000	313,998,379	\$44,315.83	\$234,006,000,000	5,193,097	\$45,060.97	\$43,756.11	\$42,351.16	\$1,914,597,162.33	\$1,793,620,753.35	106.74%	48.03%	51.97%	66.38%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2012-13	50.00%	65.00%	50.00%	65.00%
2013	\$14,073,700,000,000	316,204,908	\$44,508.16	\$246,648,000,000	5,272,677	\$46,778.51	\$45,394.65	\$43,761.55	\$2,060,674,248.62	\$1,915,073,258.40	107.60%	48.42%	51.58%	66.11%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2013-14	50.00%	65.00%	50.00%	65.00%
2014	\$14,809,700,000,000	318,563,456	\$46,489.01	\$266,535,000,000	5,356,626	\$49,758.00	\$47,199.16	\$45,104.33	\$2,227,760,704.71	\$2,034,400,584.75	109.50%	49.28%	50.72%	65.50%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2014-15	51.01%	65.71%	50.76%	65.53%
2015	\$15,458,500,000,000	320,896,618	\$48,172.84	\$277,732,000,000	5,456,584	\$50,898.51	\$49,145.01	\$46,390.00	\$2,415,232,007.90	\$2,152,032,100.00	112.23%	50.50%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2015-16	50.72%	65.50%	50.79%	65.55%
2016	\$16,011,600,000,000	323,127,513	\$49,551.96	\$287,620,000,000	5,555,751	\$51,769.78	\$50,808.76	\$48,071.27	\$2,581,530,092.74	\$2,310,846,999.41	111.71%	50.27%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2016-17	50.02%	65.01%	50.20%	65.13%
2017	\$16,732,000,000,000	326,626,000	\$51,226.79	\$302,864,000,000	5,655,405	\$53,553.01	\$52,073.77	\$49,650.53	\$2,711,677,522.01	\$2,465,175,129.28	110.00%	49.50%	50.50%	65.35%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2017-18	50.00%	65.00%	50.00%	65.00%
2018	\$17,719,000,000,000	329,256,000	\$53,815.27	\$321,945,000,000	5,751,727	\$55,973.62	\$53,765.47	\$51,531.34	\$2,890,725,764.32	\$2,655,479,002.20	108.86%	48.99%	51.01%	65.71%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2018-19	50.00%	65.00%	50.00%	65.00%
2019	\$18,729,000,000,000	331,884,000	\$56,432.37	\$341,583,000,000	5,848,903	\$58,401.21	\$55,975.95	\$53,824.81	\$3,133,306,978.40	\$2,897,110,171.54	108.15%	48.67%	51.33%	65.93%	50.00%	65.00%	50.00%	65.00%	50.00%	65.00%	2019-20	50.00%	65.00%	50.00%	65.00%

**Definitions:** FMAP: Federal medical assistance percentage eFMAP: Enhanced FMAP SFY: State fiscal year FFY: Federal fiscal year  
 (1) FMAP is calculated with the following formula:  $FMAP_{state} = 1 - ((Per\ capita\ income_{state}) / (Per\ capita\ income_{US}) * 0.45)$ , 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 2019-20 estimated FMAP is calculated based on forecasts of Personal Income from [www.leg.state.co.us](http://www.leg.state.co.us) and Population from [www.census.gov](http://www.census.gov) and [www.demography.dola.colorado.gov](http://www.demography.dola.colorado.gov). Current estimates suggest a FFY 2019-20 FMAP of 50.50%, with an average SFY 2019-20 FMAP of 50.38%. Because this time period is so far out, the Department has chosen to assume the 50.00% FMAP will continue in FY 2019-20, and will update this assumption as more data becomes available.