

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

Calendar Year	FMAP Forecast														
	United States			Colorado			Colorado 3-year Average Per Capita	U.S. 3-year Average Per Capita	FMAP ⁽¹⁾ Calculation	eFMAP ⁽²⁾ Calculation	FFY/SFY	FFY FMAP ⁽³⁾	FFY eFMAP ⁽³⁾	SFY FMAP ⁽⁴⁾	SFY eFMAP ⁽⁴⁾
	Personal Income	Population	Per Capita Personal Income	Personal Income	Population	Per Capita Personal Income									
2000	\$8,630,550,000,000	282,162,411	\$30,587.17	\$148,098,695,000	4,326,921	\$34,227.27	-	-	-	-	2000-01	50.00%	65.00%	50.00%	65.00%
2001	\$8,983,398,000,000	284,968,955	\$31,524.13	\$155,918,402,000	4,425,687	\$35,230.33	-	-	-	-	2001-02	50.00%	65.00%	50.00%	65.00%
2002	\$9,146,428,000,000	287,625,193	\$31,799.82	\$156,031,593,000	4,490,406	\$34,747.77	\$34,735.12	\$31,303.71	50.00%	65.00%	2002-03	50.00%	65.00%	50.00%	65.00%
2003	\$9,479,763,000,000	290,107,933	\$32,676.68	\$159,330,219,000	4,528,732	\$35,182.08	\$35,053.39	\$32,000.21	50.00%	65.00%	2003-04	50.00%	65.00%	50.00%	65.00%
2004	\$10,043,231,000,000	292,805,298	\$34,300.03	\$166,624,930,000	4,575,013	\$36,420.65	\$35,450.17	\$32,925.51	50.00%	65.00%	2004-05	50.00%	65.00%	50.00%	65.00%
2005	\$10,605,595,000,000	295,516,599	\$35,888.32	\$177,818,529,000	4,631,888	\$38,390.08	\$36,664.27	\$34,288.34	50.00%	65.00%	2005-06	50.00%	65.00%	50.00%	65.00%
2006	\$11,376,405,000,000	298,379,912	\$38,127.25	\$191,699,362,000	4,720,423	\$40,610.63	\$38,473.79	\$36,105.20	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	4,803,868	\$42,264.89	\$40,421.87	\$37,945.62	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	4,889,730	\$43,630.66	\$42,168.73	\$39,676.76	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	4,972,195	\$41,507.91	\$42,467.82	\$40,093.02	50.00%	65.00%	2009-10	50.00%	65.00%	50.00%	65.00%
2010	\$12,459,613,000,000	309,347,057	\$40,277.13	\$211,419,677,000	5,048,575	\$41,877.10	\$42,338.56	\$40,244.96	50.20%	65.14%	2010-11	50.00%	65.00%	50.00%	65.00%
2011	\$13,233,436,000,000	311,721,632	\$42,452.74	\$227,052,222,000	5,119,661	\$44,349.07	\$42,578.03	\$40,701.97	50.76%	65.53%	2011-12	50.00%	65.00%	50.00%	65.00%
2012	\$13,904,485,000,000	314,112,078	\$44,266.00	\$240,905,431,000	5,191,709	\$46,401.95	\$44,209.37	\$42,331.96	50.92%	65.64%	2012-13	50.00%	65.00%	50.00%	65.00%
2013	\$14,064,468,000,000	316,497,531	\$44,437.84	\$246,447,709,000	5,272,086	\$46,745.77	\$45,832.26	\$43,718.86	50.54%	65.38%	2013-14	50.00%	65.00%	50.00%	65.00%
2014	\$14,683,147,000,000	318,857,056	\$46,049.31	\$261,735,447,000	5,355,866	\$48,868.93	\$47,338.88	\$44,917.72	50.02%	65.01%	2014-15	51.01%	65.71%	50.76%	65.53%
2015	\$15,340,951,985,600	321,368,864	\$47,736.27	\$274,298,748,456	5,439,290	\$50,429.14	\$48,681.28	\$46,074.47	50.00%	65.00%	2015-16	50.72%	65.50%	50.79%	65.55%
2016	\$16,077,317,680,909	323,995,528	\$49,622.04	\$290,756,673,363	5,532,049	\$52,558.59	\$50,618.89	\$47,802.54	50.00%	65.00%	2016-17	50.02%	65.01%	50.20%	65.13%
2017	\$16,865,106,247,273	326,625,791	\$51,634.34	\$308,492,830,439	5,628,099	\$54,812.98	\$52,600.24	\$49,664.22	50.00%	65.00%	2017-18	50.00%	65.00%	50.01%	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: $FMAP_{state} = 1 - ((Per\ capita\ income_{state})^2 / (Per\ capita\ income_{US})^2 * 0.45)$, 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 2015-16 and FY 2016-17 estimated FMAP is calculated based on historical actuals from the Bureau of Economic Analysis (BEA), and will only change if the BEA restates these actuals. FY 2017-18 estimated FMAP is calculated based on forecasts of Personal Income from www.leg.state.co.us and Population from www.census.gov.