



CITY OF RAPID CITY

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Community Planning and Development Services

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MEMORANDUM

TO: Public Works Committee

FROM: Kip Harrington, Long Range Planner III

DATE: December 8, 2015

RE: Utility System Master Plan Update Population Projections

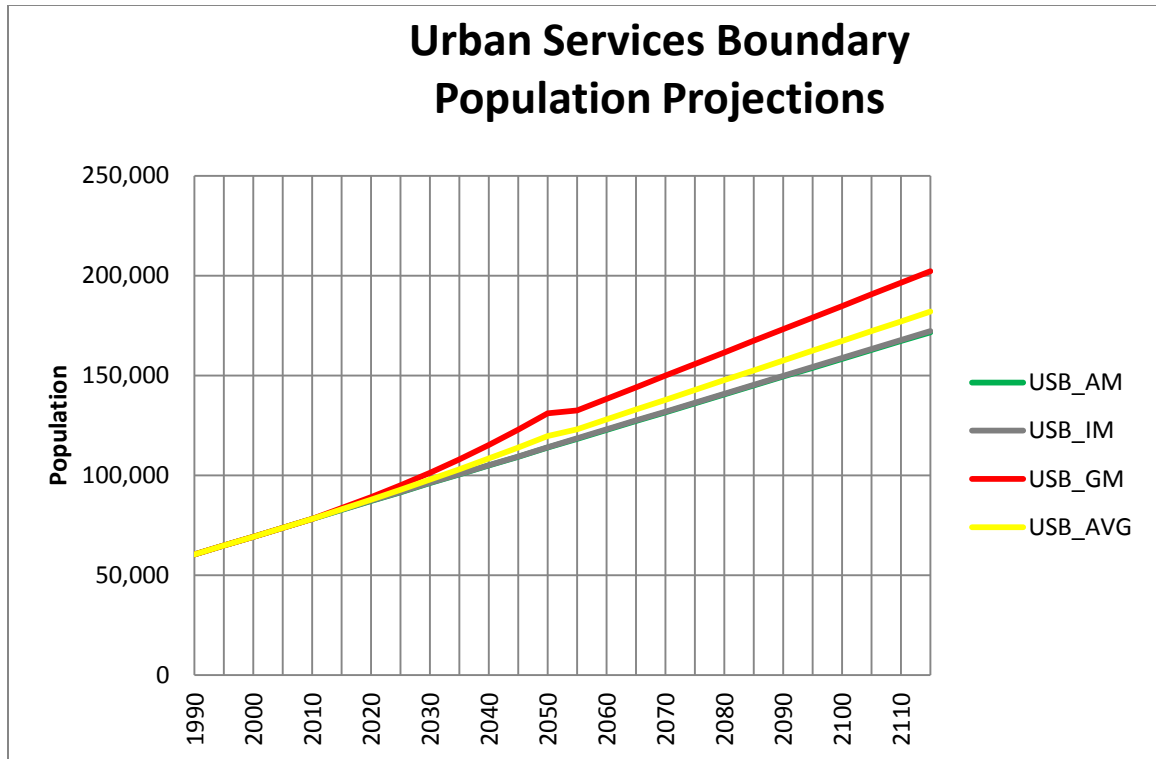
Rapid City Public Works and Engineering is currently updating the Utility System Master Plan and has asked the Long Range Planning Division to assist by developing population projections to be used in the update. Projections have been developed for two areas: the Urban Services Boundary as defined in *Plan Rapid City* and the Metropolitan Planning Organization (MPO) boundary, for the years 2025, 2045, and 2115.

For the Urban Services Boundary (USB) projections, Staff used historical Decennial Census Block population data from 1990, 2000, and 2010 to form the base data for the projections, and then projected the population using various common growth forecasting techniques (Arithmetical, Incremental, Geometric, and Average) to calculate low, medium, and high projections for each of the forecast years. See the table and graph below.

Urban Services Boundary	2025	2045	2115
Low Projection	91,600	109,400	171,700
Medium Projection	91,800	109,600	172,200
High Projection	92,800	114,000	182,100



EQUAL OPPORTUNITY EMPLOYER



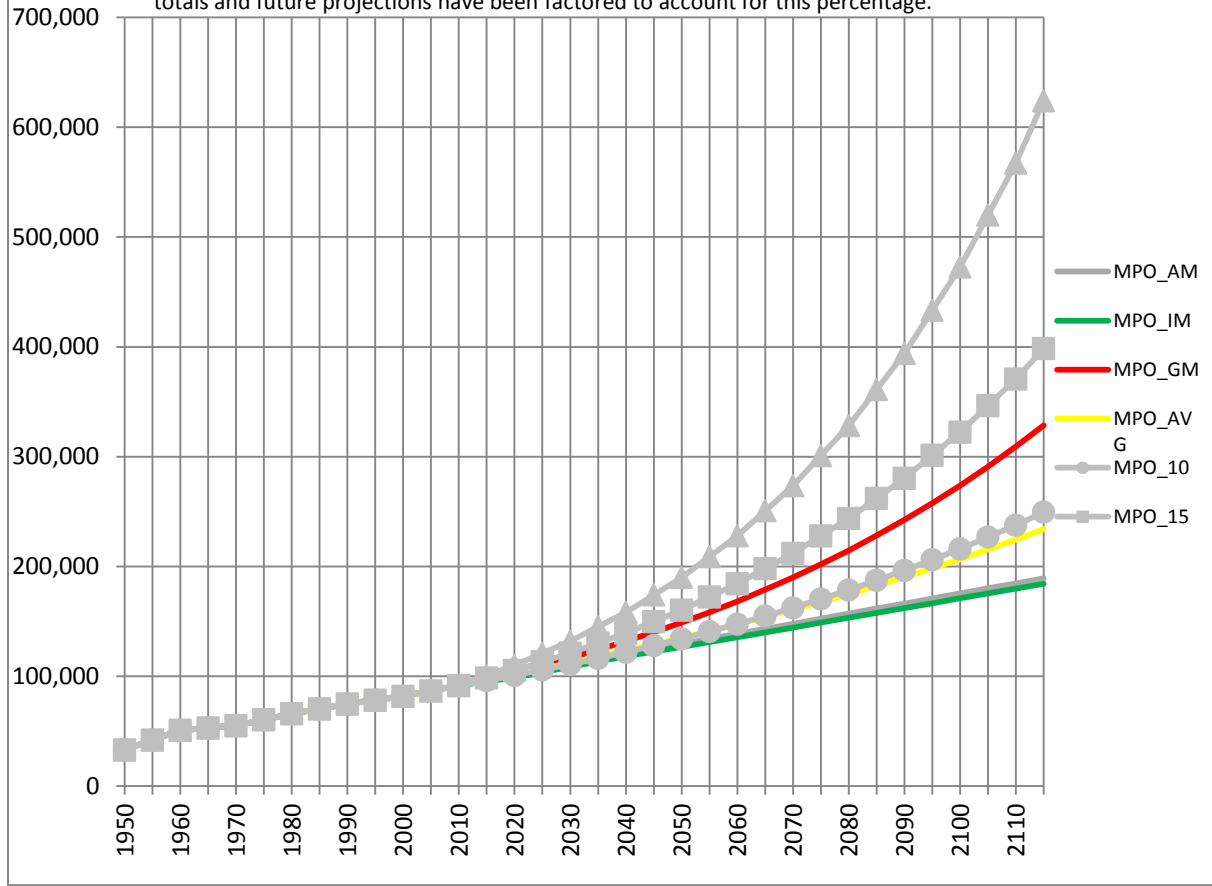
For the Metropolitan Planning Organization boundary projections, Staff used historical Decennial Census county population data for Meade and Pennington counties from 1950 through 2010 and then factored the population based on the average percentage of the population that resides within the MPO area. The projections were developed using the same techniques as the USB projections, along with several average growth rate projections. See the table and graph below.

MPO Boundary	2025	2045	2115
Low Projection	103,700	122,300	184,300
Medium Projection	106,400	124,900	189,300
High Projection	106,700	129,100	234,000



MPO Population Projections Based on Meade and Pennington County Historical Census Data*

*Based on the 1990, 2000, and 2010 Census, the MPO Area accounts for approximately 72.5% of the population in Meade and Pennington Counties. The historic population totals and future projections have been factored to account for this percentage.



Long Range Planning and Public Works and Engineering Staff have reviewed and concurred on the methodology used to perform the projections and the results of those methods.

Staff Recommendation: Staff recommends approval of the 2025, 2045, and 2115 Urban Services Boundary and MPO Boundary Population Projections to be used in the Utility System Master Plan Update.

