

Analysis and Technical Update to the Colorado Water Plan Technical Memorandum

Prepared for: Colorado Water Conservation Board

Subject:

Updated Population Projections for Water Plan Scenarios

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Section 1: Overview

Population projections, by basin and for the state as a whole, are a primary driver in the municipal and industrial demand projections developed by Element Water. This memo describes the methodology used by BBC Research & Consulting (BBC) to develop updated population projections for each of the scenarios in the Water Plan.

Section 2: Background on Previous Methodologies

2.1 OVERVIEW OF METHODOLOGIES USED IN SWSI 2010

As documented in Appendix H, "State of Colorado 2050 Municipal & Industrial Water Use Projections", alternative population scenarios through 2050 were also developed for the previous SWSI effort. That work, primarily conducted in 2008-09, required both extending the county and state population projections available at the time from the State Demography Office (SDO) from 2035 to 2050 and developing alternative high and low scenarios.

Harvey Economics, in collaboration with the SDO, essentially sought to extend the existing SDO projections using a similar approach to the methods the SDO used to develop their forecasts (which at the time covered the period of 2005 through 2035). Those methods included developing economic (e.g. employment) forecasts for the state and each county to develop estimates of future labor demand. Future labor demand was then compared to projected future labor supply based on an extended cohort component demographic model similar to the SDO's demographic model. In areas where labor demand was projected to exceed available labor supply, additional net in-migration was assumed to occur in order to balance the labor markets. In situations where labor supply was projected to exceed labor demand, net out-migration was assumed to occur to balance the labor markets.

The need to extend the SDO's projections from 2035 to 2050 also served as the basis for developing the alternative high growth and low growth scenarios. In the previous SWSI effort, the population scenarios all assumed the same growth (the SDO forecast) through 2035. However, the high growth scenario incorporated more aggressive economic/employment growth assumptions for the extension from 2035 through 2050, while the low growth scenario incorporated lower economic/employment assumptions from 2035 through 2050 compared to either the high scenario or the medium scenario.

2.2 METHODOLOGY ENHANCEMENTS FOR TECHNICAL UPDATE

Two factors led to modifications to the approach to developing population projection scenarios for the Technical Update:

- The SDO population projections are now available through 2050 (which remains the endpoint for this SWSI update). It was no longer necessary to extend the SDO projections in order to create the middle, or base case, population projections.
- During the scenario planning workshop held in early March 2017, CWCB (and other members of the SWSI team) suggested it would be beneficial to find a simpler approach for developing the alternative scenarios that would be easier to explain and involve fewer assumptions.

After further discussions with other members of the study team and the SDO, BBC developed a simplified approach for constructing the alternative population scenarios for this Technical Update. While the previous approach was methodologically rigorous in producing an internally consistent set of employment and population forecasts, only the population numbers were actually used in deriving the future water demand forecasts. Moreover, development of alternative employment forecast scenarios for various sectors in all 64 counties in Colorado inevitably involved making numerous assumptions about conditions far in the future that were based almost entirely on judgment. By avoiding these types of judgment-based assumptions, the methodology adopted for the SWSI update also avoids "picking winners and losers" in developing population scenarios for smaller areas such as the basins and individual counties.

Section 3: Description of Revised Methodology

The updated population forecasts for the planning scenarios were based on the existing SDO population forecasts that now span the entire Technical Update study period and provide the base case or middle projection, and probabilistic analysis of the potential variance around those forecasts to develop high and low growth projections. The variance around the SDO projections was estimated from the historical population growth experience of the state, and each of its basins. As discussed later in Section 5, these three sets of initial projections, with some modifications to the distribution of growth within the state, were then used to develop population forecasts consistent with the five planning scenarios developed in the Colorado Water Plan.

3.1 SPECIFIC METHODOLOGY

Only three pieces of information were required to develop probabilistic estimates of the potential range surrounding the "median" population projections produced by the SDO. Those information requirements were:

- The compound average annual growth rate implied by the SDO forecast. For example, for the State of Colorado as a whole, the SDO's 2017 forecast anticipates a 2050 population of 8,461,296 residents. By comparing that projection to the 2010 population of 5,029,196, we can calculate the compound average annual growth rate over the 40-year period to be 1.309 percent per year.
- The historical standard deviation in population growth rates by decade. As shown in Table 1, from 1940 through 2010, the standard deviation in average annual population growth rates by decade for the State of Colorado was 0.634 percent.
- The historical compound average annual growth rate for the area being projected. Also shown in Table 1, from 1940 through 2010, the average annual compound growth rate for Colorado as a whole was 2.165 percent.

State of Colorado Population Growth 1940-2010 (Compound Average Growth Rate and Standard Deviation by Decade)								
Year	Population	Avg. Rate						
1940	1,123,296							
1950	1,325,089	1.67%						
1960	1,753,947	2.84%						
1970	2,207,259	2.33%						
1980	2,889,964	2.73%						
1990	3,294,394	1.32%						
2000	4,301,261	2.70%						
2010	5,029,196	1.58%						
1940-2010								
Compound								
Growth Rate	2.165%							
Standard Deviation								
in Growth Rate by Decade 0.634%								



Fundamentally, this approach relies on a couple of key assumptions:

- The compound growth rate for 2015 through 2050 derived from SDO population projections represents the median average annual growth rate forecast for each area. Out of a hypothetical million potential alternative futures, the future described in the SDO forecast would fall in the middle.
- The variability of growth rates in future decades (and corresponding potential variance around the SDObased median forecast) can be estimated based on historical variability in growth rates by decade since 1940. However, BBC has further assumed that the "coefficient of variation" for the growth rates in each basin will remain the same in the future as they have been in the past. This means that the size of the standard deviation in each basin's future growth rate will change in proportion to the ratio of their projected median growth rate in the future to their median growth rate in the past. For example, if the median future annual growth rate is projected to be ½ of the historical annual growth rate, the future standard deviation by decade is also assumed to be ½ of the historical standard deviation.

The second assumption described above is both logical and supported by the historical data.

BBC calculated the historical compound average annual growth rates for each of Colorado's 63 counties (excluding Broomfield) from 1940 through 2010, and the historical standard deviations in growth rates by decade for each county. There was a correlation of 0.50 between the absolute values of the compound average annual growth rates and the standard deviations across all of the counties.

We also sorted the counties into quintiles based on their compound average annual growth rates and reviewed the average standard deviation across each quintile. In the fastest growing quintile of counties, the historical compound average annual growth rate from 1940 to 2010 averaged 3.7 percent per year, while the standard deviations in growth rates by decade averaged 3.1 percent. In the slowest growing

quintile of counties, the historical compound average annual growth rate from 1940 to 2010 averaged 0.1 percent per year, while the standard deviations in growth rates by decade averaged 1.3 percent.

3.1.1 STEPS TO IMPLEMENT THIS ANALYSIS

The following sequence of steps was used to implement the analysis.

- **1.** Calculate median compound average annual growth rate for the state (as shown in Figure 1) and each basin based on the 2017 SDO projections through 2050.
- 2. Estimate the standard deviation in future growth rates by decade for the state and each basin based on the following calculation:

Future standard deviation = historical standard deviation (1940 – 2010) x projected median compound growth rate in future (2010-2050) / historical compound growth rate (1940 – 2010)

- **3.** Use Monte Carlo simulation techniques to simulate alternative future populations for each area based on baseline compound average annual growth rate (from SDO projections) and estimated standard deviation in growth rates by decade. Each "run" for each geographic area built to a 2050 population projection as follows:
 - a. 2020 population = 2010 population (estimate from SDO) x (1 + X) ^10, where X is a randomly drawn average annual growth rate from a normal distribution with its mean based on the compound growth rate from the SDO projections, and its standard deviation estimated based on step 2.
 - b. 2030 population = 2020 population estimate (from step 3a) x (1 + X) ^10, where X is another randomly drawn average annual growth rate from the distribution described in step 3a.
 - c. Repeat step 3b until we reach 2050.
- **4.** Based on thousands of "runs", identify the estimated overall distribution of potential future population totals for the state and each basin in 2050.

To encompass a wide range of potential future population growth outcomes, BBC and CWCB selected the 10 percent exceedance probability for the "high growth" projections and the 90 percent exceedance probability for the "low growth" projections. Based on these thresholds, there is an estimated 1 in 10 chance that the actual future 2050 population could be higher than the "run" with the estimated 10 percent exceedance probability, and a 1 in 10 chance the actual future 2050 population could be higher than the "run" with the estimated 10 percent exceedance probability, and a 1 in 10 chance the actual future 2050 population could turn out to be lower than the "run" with the estimated 90 percent exceedance probability.

3.1.2 STATEWIDE POPULATION EXAMPLE

To more specifically illustrate the application of this methodology, Figure 1 shows the resulting estimated range of possible future population totals for the State of Colorado as a whole.

The SDO's 2017 population projection for Colorado in 2050 was 8,461,296 residents. That projection is represented in Figure 1 by the red line labelled "median population," and provides the middle or base case population scenario for SWSI.

Using the 10 percent exceedance probability for the high growth forecast, the 2050 population projection for that forecast is 9,312,421. Using the 90 percent exceedance probability to represent the low growth forecast for future population, that forecast has a projected statewide population in 2050 of 7,683,154 residents.





3.1.3 APPLICATION TO BASINS AND COUNTIES

The same methodology was applied to generate high growth and low growth projections for each of the basins and counties, with a couple of refinements.

In general, the smaller geographic areas represented by the basins have larger coefficients of variation in their historical population growth rates than the state as a whole. This implies that their population projections, under the methodology described in this memo, also have larger variance (on a relative basis) than the state as a whole. Carried further, the larger variance in the basin population projections means that the sum of the basin populations for the high growth projections (the 10 percent exceedance probability) is greater than the overall statewide population projections for the basins (the 90 percent exceedance probability) is lower than the 90 percent exceedance probability estimate for Colorado as a whole.

It could be argued that these discrepancies are logical. There is no reason to believe that a future high population growth scenario for Colorado as a whole necessarily means that every basin would simultaneously experience high growth, and vice-versa for the low scenario.

However, it would be problematic from a planning standpoint to deal with a set of high growth projections for the basins that collectively exceed the high growth projection for the State (or vice versa

for the low growth projections). BBC dealt with this issue by constraining the high and low projections for the basins to sum to the statewide total. The constraint was imposed by proportionally reducing growth in each basin (under the high growth projections) as needed to make the sum of the basin projections match the statewide total – or proportionally increasing growth in each basin (under the low growth projections) so that the sum of the basin projections matched the statewide low projections.

Alternative population scenarios for the state's individual counties were also used in developing the Technical Update municipal demand forecasts. The potential issues regarding consistency between the statewide population projections and projections for smaller areas are even greater at the individual county level. Consequently, BBC did not develop probabilistic population forecasts for the individual counties. Instead, BBC apportioned the probabilistic basin growth projections to their component counties based on each county's share of the median, SDO projections for its basin.

Six of Colorado's 64 counties include lands located in more than one basin. Current and projected future populations for these counties were divided between the relevant basins using the same proportions utilized in the SWSI 2010 population projections.

Section 4: Illustration of Range of Population Growth Projections for Selected Basins

The following charts illustrate the SDO projections and the statistically-derived high growth projections and low growth projections for three basins. One of the basins (the Arkansas Basin) is an example of an area which has historically experienced comparatively low variability in terms of its growth trajectory. The second example is the Colorado River Basin, which has historically experienced medium variability in terms of its growth trajectory. The final example is the Gunnison Basin, which has historically experienced high variability in its growth trajectory. The high growth and low growth projections shown in these figures reflect the unconstrained statistical projections for each basin, prior to adjustments to make the sum of the basin projections match the overall state high growth and low growth projections.



Figure 2. Arkansas Basin SDO and Statistically-derived Low and High Growth Projections (Example of basin with low historical growth variability)



Figure 3. Colorado Basin SDO and Statistically-derived Low and High Growth Projections (Example of basin with medium historical growth variability)



Figure 4. Gunnison Basin SDO and Statistically-derived Low and High Growth Projections (Example of basin with high historical growth variability)

Section 5: Development of the Five Technical Update Population Scenarios

During the creation of the Colorado Water Plan, five alternative future scenarios were developed. These scenarios were entitled "business as usual," "weak economy," "cooperative growth," "adaptive innovation," and "hot growth."

As described in the Water Plan, each of the five scenarios includes distinctive assumptions regarding future demographic growth. The following are excerpts from the descriptions of each scenario specifically related to population growth, and descriptions of the manner in which BBC implemented the population projections for each scenario.

5.1 BUSINESS AS USUAL SCENARIO

• Excerpts from Colorado Water Plan description:

"Recent trends continue into the future. Few unanticipated events occur. The economy goes through regular cycles, but grows over time. By 2050, Colorado's population is close to 9 million people. Single family homes dominate, but there is a slow increase of denser developments in large urban areas."

• Implementation:

Used the current SDO state and county projections for 2050. BBC met with the SDO on 5/30/2017 and confirmed that this scenario was consistent with the assumptions embodied in their forecast. As noted in Section 2.1 of this memo, the SDO projections are based on a sophisticated combination of a cohort component demographic model and regional employment forecasts throughout the state. Further, the SDO projections are regularly reviewed with local governments and planners, and modified (as necessary) based on local input. The SDO projections are also the "official" population projections for the State of Colorado and are used for a variety of purposes, including the distribution of funds to local governments.

5.2 WEAK ECONOMY SCENARIO

• Excerpts from Colorado Water Plan description:

"The world's economy struggles, and the state's economy is slow to improve. <u>Population growth is lower</u> <u>than currently projected</u>, slowing the conversion of agricultural land to housing... Many sectors of the state's economy, including most water users and water-dependent businesses, begin to struggle financially."

• Implementation:

Used the statistically-derived low growth projections. These projections are consistent with an overall reduction of future growth in Colorado. Based on the methods used to develop the low growth projections, areas with the most consistent growth histories (through booms and busts) would see the smallest reductions in their projected growth relative to the SDO forecasts, while areas that have historically been the most vulnerable to economic busts would see larger reductions in their projected growth.

5.3 COOPERATIVE GROWTH SCENARIO

• Excerpts from Colorado Water Plan description:

"Environmental stewardship becomes the norm. Broad alliances form to provide for more integrated and efficient planning and development. <u>Population growth is consistent with current forecasts</u>. Mass transportation planning concentrates <u>more development in urban centers and mountain resort</u> <u>communities</u>, thereby slowing the loss of agricultural land and reducing the strain on natural resources compared to traditional development."

• Implementation:

Constrained overall growth to statewide SDO projections. Defined mountain resort communities and urban centers. Increased projected 2015-2050 BAU population growth in mountain resort communities by 20%, increased projected 2015-2050 BAU population growth in urban centers by 10%. Adjusted other areas (basins and counties) to maintain overall state totals from SDO projections.

- **Definitions of mountain resort communities:** Grand, Summit, Eagle, Garfield, Routt, Pitkin, Gunnison, San Miguel, and La Plata counties.
- Definitions of urban centers: Denver, El Paso, Pueblo, Boulder, Larimer, Weld, and Mesa counties.

5.4 ADAPTIVE INNOVATION SCENARIO

• Excerpts from Colorado Water Plan description:

"A much warmer climate causes major environmental problems globally and locally... Colorado is a research hub and has a strong economy. The relatively cooler weather in Colorado (due to its higher elevation) and the high-tech job market cause <u>population to grow faster than currently projected</u>... The warmer climate reduces global food production, increasing the market for local agriculture and food

imports to Colorado. More food is grown locally, increasing local food prices and reducing the loss of agricultural land to urban development... <u>More compact urban development</u> occurs through innovations in mass transit."

Implementation:

Used statewide forecast from high growth projections. Used unconstrained high growth forecast for urban center counties (see definitions recommended for Cooperative Growth Scenario) and reduced forecast as needed in other areas to balance to state totals.¹

5.5 HOT GROWTH SCENARIO

Excerpts from Colorado Water Plan description:

"A vibrant economy fuels population growth and development <u>throughout the state</u>... A much warmer global climate brings more people to Colorado with its relatively cooler climate. Families prefer low-density housing and many seek rural properties, ranchettes, and mountain living. Agricultural and other open lands are rapidly developed... Communities struggle unilaterally to provide services needed to accommodate the <u>rapid business and population growth</u>."

• Implementation:

Used statistically-derived high growth projections, which project disproportionate population increases in the state's more rural areas (due to their greater historical variability in population growth and their higher growth rates during boom periods).

Section 6: Projected Population by Basin and County for the Planning Scenarios

As described in the preceding sections, population projections for the five planning scenarios were derived from the 2017 SDO population projections and statistically-derived high growth projections and low growth projections for each basin.

The revised methodologies in this Technical Update for developing projected M&SSI water needs, and for hydrologic analysis, required further disaggregation of the basin population projections. GIS analysis was used to identify the portion of the South Platte Basin population that is located within the Republic River sub-basin. The population of the Yampa Basin was subdivided between the Yampa sub-basin and the White sub-basin for these purposes.

The following table presents the 2015 population estimates for each basin and county, and the projected 2050 population for each area under the five planning scenarios.

¹ Unconstrained high growth projections refer to projections for these areas based on their basins' probabilistic high growth projections, prior to downward adjustments to force the sum of all of the basins' high growth projections match the statewide high growth projection.

Updated Population Projections for Water Plan Scenarios

		Business as		Cooperative	Adaptive	Hot
Basin Forecasts	2015 Population	Usual	Weak Economy	Growth	Innovation	Growth
Arkansas Basin	1,008,434	1,509,463	1,462,821	1,544,367	1,625,970	1,567,968
Colorado Basin	307,570	515,472	456,321	549,176	572,860	577,827
Gunnison Basin	103,121	162,632	123,070	158,587	195,998	204,931
Metro	2,768,126	4,061,899	3,817,099	3,921,976	4,161,584	4,317,749
North Platte Basin	1,353	1,279	1,055	1,210	1,364	1,457
Rio Grande Basin	45,975	55,104	42,270	52,141	62,972	67,252
South Platte Basin	1,061,754	1,892,367	1,616,081	1,962,391	2,330,861	2,189,906
Republican Basin	31,616	35,476	30,297	33,569	38,441	41,054
Remainder S. Platte	1,030,138	1,856,891	1,585,784	1,928,822	2,292,420	2,148,852
Southwest Basin	107,999	195,837	125,814	201,010	264,189	282,144
Yampa-White Basin	43,723	67,242	38,623	70,437	96,621	103,188
Yampa Basin	37,194	59,866	34,386	63,458	86,022	91,869
White Basin	6,529	7,376	4,237	6,979	10,599	11,319
Statewide Totals	5,448,055	8,461,296	7,683,154	8,461,296	9,312,421	9,312,421

Table 2. Population Projections by Basin for the Five Planning Scenarios

Forecasts by County 2015 Population Usual Weak Economy Growth Innovation Growth Arkansos Basin -				Business as		Cooperative	Adaptive	Hot
Akansas Basin Baca 3,594 2,949 2,858 2,790 2,868 3,063 Bent 5,847 6,607 6,403 6,252 6,426 6,863 Chaffee 18,603 27,145 26,306 25,686 26,403 28,197 Cheyenne part 686 615 596 582 599 639 Crowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 ElPaso 676,178 1,076,486 1,043,223 1,116,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 2,131 Fremont 46,659 56,406 56,463 53,373 54,864 58,592 Laskarinas 1,306 1,133 1,156 1,129 1,160 1,239 Laskarinas 1,4061 1,3249 12,840	Forecasts by County		2015 Population	Usual	Weak Economy	Growth	Innovation	Growth
Arkonsos Basin Baca 3,594 2,949 2,858 2,700 2,868 3,063 Bent 5,847 6,607 6,403 6,252 6,426 6,863 Chaffee 18,603 27,145 26,306 25,666 26,403 28,197 Cheyenne port 666 615 596 582 599 639 Crowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Fremont 46,659 56,406 54,663 53,373 54,864 58,592 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Las Animas 14,061 13,249 12,840 12,537 12,847 13,763 Lincoln part 4,485 6,857 6,645								
Baca 3,594 2,494 2,888 2,790 2,868 3,061 Bent 5,847 6,607 6,403 6,252 6,426 6,863 Chaffee 18,603 27,145 26,306 25,686 26,403 28,197 Cheyenne part 686 615 596 582 599 639 Cowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 Elbert part 7,634 20,526 1,9491 1,9422 19,964 21,321 Fremont 46,659 56,406 54,663 5,3373 54,864 85,592 Huerfano 6,456 5,983 5,778 5,661 5,819 6,215 Iake 7,502 9,868 9,563 9,337 9,598 10,250 Las Animas 14,061 13,249 12,840 12,537 12,887 13,763 Uncoh part 4,485 6,857 6,645 6,488 <	<u>Arkansas Basin</u>				2.050	2 700	2 0 0 0	
Bent 5,847 6,607 6,403 6,252 6,426 6,863 Chaffee 18,603 27,145 26,306 25,686 26,403 28,197 Cheyenne part 686 615 596 582 599 639 Crowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 El Paso 676,178 1,076,486 1,043,223 1,115,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Fremont 46,659 56,406 54,663 53,373 54,864 58,592 Klowa 1,396 1,193 1,156 1,129 1,60 1,239 Lake 7,502 9,868 9,563 9,337 9,598 10,250 Linchon part 4,485 6,857 6,645 6,488 6,	Васа		3,594	2,949	2,858	2,790	2,868	3,063
Charlee 18,603 27,145 26,306 25,686 26,603 28,197 Cheyenne part 686 615 596 582 599 639 Crowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 El Paso 676,178 1,076,486 1,043,223 1,116,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Fremont 46,659 56,406 54,663 53,373 54,864 58,592 Huerfano 6,456 5,983 5,798 5,661 5,819 6,215 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Lake 7,502 9,868 9,563 9,337 9,598 10,250 Las Animas 14,061 13,249 12,840 12,537 12,887 13,763 Lincoln part 4,485 6,857 6,645 6,488 6,669 7,123 Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Garnad 14,602 27,406 24,261 29,967 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,711 Server 134,096 212,859 188,433 220,735 255,228 238,603 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Guanison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Guanison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,448 1,856 1,863 Cabra Colorado 26,617 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,448 18,818 18,864 18,865 19,863 18,863 1,878 1,856 1,857 Cabra Colorado 26,617 22,728 17,199 24,054 26,817 28,639 Hinsdale	Bent		5,847	6,607	6,403	6,252	6,426	6,863
Cheyenne part 686 615 596 582 599 639 Crowley 5,569 7,754 7,514 7,337 7,542 8,055 Custer 4,457 5,934 5,751 5,615 5,772 6,164 El Paso 676,178 1,076,486 1,043,223 1,116,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Huerfano 6,655 56,406 54,663 5,3373 54,864 58,592 Huerfano 6,456 5,983 5,798 5,661 5,819 6,215 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Lake 7,502 9,868 9,563 9,337 9,598 10,250 Las Animas 14,061 13,249 12,840 12,537 12,887 13,763 Lincoln part 4,485 6,857 6,645 6,488	Chaffee		18,603	27,145	26,306	25,686	26,403	28,197
Crowley5,5697,7547,5147,3377,5428,055Custer4,4575,9345,7515,6155,7726,164El Paso676,1781,076,4861,043,2231,116,5171,177,6371,118,209Elbertpart7,63420,52619,89119,42219,96421,321Fremont46,65956,40654,66353,37354,86458,592Huerfano6,4565,9835,7985,6615,8196,215Kiowa1,3961,1931,1561,1291,1601,239Lake7,5029,8689,5639,3379,59810,250Las Animas14,06113,24912,84012,53712,88713,763Choron18,26515,30214,482914,47914,48415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart14,60227,40624,26129,66728,76630,721Mesapart134,096212,859188,433220,735255,228238,608Pitkin17,84523,20920,54624,28224,36126,017Summit29,92851,82845,88156,20854,40058,097Gunnison16,09722,72817,19924,05426,81728,639Hinsdale7671,5731,19	Cheyenne	part	686	615	596	582	599	639
Custer 4,457 5,934 5,751 5,615 5,772 6,164 El Paso 676,178 1,076,486 1,043,223 1,116,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Fremont 46,659 56,406 54,663 53,373 54,864 58,592 Huerfano 6,456 5,983 5,798 5,661 5,819 6,215 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Lake 7,502 9,868 9,553 9,337 9,598 10,250 Las Animas 14,061 13,249 12,840 12,537 12,887 13,763 Lincoln part 4,485 6,857 6,645 6,488 6,669 7,123 Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 <	Crowley		5,569	7,754	7,514	7,337	7,542	8,055
El Paso 676,178 1,076,486 1,043,223 1,116,517 1,177,637 1,118,209 Elbert part 7,634 20,526 19,891 19,422 19,964 21,321 Fremont 46,659 56,406 54,663 53,337 54,864 58,592 Huerfano 6,456 5,983 5,798 5,661 5,819 6,215 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Lake 7,502 9,868 9,563 9,337 9,598 10,250 Las Animas 14,061 13,249 12,840 12,537 12,887 13,763 Lincoln part 4,485 6,857 6,648 6,669 7,123 Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 23,873 Teller part 13,961 15,711 93,5	Custer		4,457	5,934	5,751	5,615	5,772	6,164
Elbertpart7,63420,52619,89119,42219,96421,321Fremont46,65956,40654,66353,37354,86458,592Huerfano6,4565,9835,7985,6615,8196,215Kiowa1,3961,1931,1561,1291,1601,239Lake7,5029,8689,5639,3379,59810,250Las Animas14,06113,24912,84012,53712,88713,763Lincolnpart44,856,8576,6456,4886,6697,123Otero18,26515,30214,82914,47914,88415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart14,60227,40624,26129,96728,76630,721Mesapart134,096212,859188,433220,735255,228238,608Pitkin17,84523,20920,54624,28224,36126,017Summit29,99351,82845,88156,20854,40058,097Gunnison16,9671,27211,87839,86149,70453,082Hinsdale7671,5731,1901,4881,8561,982	El Paso		676,178	1,076,486	1,043,223	1,116,517	1,177,637	1,118,209
Fremont 46,659 56,406 54,663 53,373 54,864 58,592 Huerfano 6,456 5,983 5,798 5,661 5,819 6,215 Kiowa 1,396 1,193 1,156 1,129 1,160 1,239 Lake 7,502 9,868 9,563 9,337 9,598 10,250 Lake 7,502 9,868 9,563 9,337 12,887 13,763 Lincoln part 4,485 6,857 6,645 6,488 6,669 7,123 Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colarado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711	Elbert	part	7,634	20,526	19,891	19,422	19,964	21,321
Huerfano6,4565,9835,7985,6615,8196,215Kiowa1,3961,1931,1561,1291,1601,239Lake7,5029,8689,5639,3379,59810,250Las Animas14,06113,24912,84012,53712,88713,763Lincolnpart4,4856,8576,6456,4886,6697,123Otero18,26515,30214,82914,47914,88415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart11,94116,96416,44016,05216,50117,622Colorado BasinEagle53,32094,45983,620102,68799,147105,885Garfield57,779105,71193,581115,297110,957118,498Grand14,60227,40624,26129,96728,76630,721Mesapart134,096212,859188,433220,735255,228238,608Summit29,92851,82845,88156,20854,40056,017Summit29,97342,12631,87839,86149,70453,082Gunison16,09722,72817,19924,05426,81728,639Gunison16,09722,72817,19924,05426,81728,639Junson <td>Fremont</td> <td></td> <td>46,659</td> <td>56,406</td> <td>54,663</td> <td>53,373</td> <td>54,864</td> <td>58,592</td>	Fremont		46,659	56,406	54,663	53,373	54,864	58,592
Kiowa1,3961,1931,1561,1291,1601,239Lake7,5029,8689,5639,3379,59810,250Las Animas14,06113,24912,84012,53712,88713,763Lincolnpart4,4856,8576,6456,4886,6697,123Otero18,26515,30214,82914,47914,88415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart11,94116,96416,44016,05216,50117,622Colorado BasinEagle53,32094,45983,620102,68799,147105,885Garfield57,779105,71193,581115,297110,957118,498Grand14,60227,40624,26129,96728,76630,721Mesapart134,096212,859188,433220,735255,228238,608Pitkin17,84523,20920,54624,28224,36126,017Summit29,92851,82845,88156,20854,40056,017Summit29,97342,12631,87839,86149,70453,082Gunnison16,09722,72817,19924,05426,81728,681Gunnison16,09722,72817,1991,4881,8561,982 <td>Huerfano</td> <td></td> <td>6,456</td> <td>5,983</td> <td>5,798</td> <td>5,661</td> <td>5,819</td> <td>6,215</td>	Huerfano		6,456	5,983	5,798	5,661	5,819	6,215
Lake7,5029,8689,5639,3379,59810,250Las Animas14,06113,24912,84012,53712,88713,763Lincolnpart4,4856,8576,6456,4486,6697,123Otero18,26515,30214,82914,47914,88415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart11,94116,96416,44016,05216,50117,622Colorado BasinEagle53,32094,45983,620102,68799,147105,885Garfield57,779105,71193,581115,297110,957118,498Grand14,60227,40624,26129,96728,76630,721Summit29,92851,82845,88156,20854,40058,097Cunison BasinDelta29,97342,12631,87839,86149,70453,082Gunnison16,09722,72817,19924,05426,81728,639Hinsdale7671,5731,1901,4881,8561,982	Kiowa		1,396	1,193	1,156	1,129	1,160	1,239
Las Animas14,06113,24912,84012,53712,88713,763Lincolnpart4,4856,8576,6456,4886,6697,123Otero18,26515,30214,82914,47914,88415,895Prowers11,90511,44111,08710,82611,12811,884Pueblo163,196224,184217,257230,283245,249232,873Tellerpart11,94116,96416,44016,05216,50117,622Colorado BasinEagle53,32094,45983,620102,68799,147105,885Garfield57,779105,71193,581115,297110,957118,498Grand14,60227,40624,26129,96728,76630,721Mesapart134,096212,859188,433220,735255,228238,608Pitkin17,84523,20920,54624,28224,36126,017Summit29,92851,82845,88156,20854,40058,097Gunnison16,09722,72817,19924,05426,81728,639Hinsdale7671,5731,1901,4881,8561,982	Lake		7,502	9,868	9,563	9,337	9,598	10,250
Lincoln part 4,485 6,857 6,645 6,488 6,669 7,123 Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928	Las Animas		14,061	13,249	12,840	12,537	12,887	13,763
Otero 18,265 15,302 14,829 14,479 14,884 15,895 Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Outason 29,973 42,126	Lincoln	part	4,485	6,857	6,645	6,488	6,669	7,123
Prowers 11,905 11,441 11,087 10,826 11,128 11,884 Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale <	Otero		18,265	15,302	14,829	14,479	14,884	15,895
Pueblo 163,196 224,184 217,257 230,283 245,249 232,873 Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Coloration Basin	Prowers		11,905	11,441	11,087	10,826	11,128	11,884
Teller part 11,941 16,964 16,440 16,052 16,501 17,622 Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Pueblo		163,196	224,184	217,257	230,283	245,249	232,873
Colorado Basin Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,262 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin P 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Teller	part	11,941	16,964	16,440	16,052	16,501	17,622
Eagle 53,320 94,459 83,620 102,687 99,147 105,885 Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,262 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin C C 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	<u>Colorado Basin</u>							
Garfield 57,779 105,711 93,581 115,297 110,957 118,498 Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Eagle		53,320	94,459	83,620	102,687	99,147	105,885
Grand 14,602 27,406 24,261 29,967 28,766 30,721 Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Garfield		57,779	105,711	93,581	115,297	110,957	118,498
Mesa part 134,096 212,859 188,433 220,735 255,228 238,608 Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Grand		14,602	27,406	24,261	29,967	28,766	30,721
Pitkin 17,845 23,209 20,546 24,282 24,361 26,017 Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Mesa	part	134,096	212,859	188,433	220,735	255,228	238,608
Summit 29,928 51,828 45,881 56,208 54,400 58,097 Gunnison Basin Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Pitkin		17,845	23,209	20,546	24,282	24,361	26,017
Gunnison BasinDelta29,97342,12631,87839,86149,70453,082Gunnison16,09722,72817,19924,05426,81728,639Hinsdale7671,5731,1901,4881,8561,982	Summit		29,928	51,828	45,881	56,208	54,400	58,097
Delta 29,973 42,126 31,878 39,861 49,704 53,082 Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Gunnison Basin							
Gunnison 16,097 22,728 17,199 24,054 26,817 28,639 Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Delta		29,973	42,126	31,878	39,861	49,704	53,082
Hinsdale 767 1,573 1,190 1,488 1,856 1,982	Gunnison		16,097	22,728	17,199	24,054	26,817	28,639
	Hinsdale		767	1,573	1,190	1,488	1,856	1,982
Mesa part 14,927 23,695 17,931 24,572 32,067 29,858	Mesa	part	14,927	23,695	17,931	24,572	32,067	29,858
Montrose part 36,710 66,942 50,658 63,343 78,985 84,353	Montrose	, part	36,710	66,942	50,658	63,343	78,985	84,353
Ouray 4,647 5,568 4,214 5,269 6,570 7,016	Ouray	·	4,647	5,568	4,214	5,269	6,570	7,016

Table 3. Population Projections by County for the Five Planning Scenarios

			Business as		Cooperative	Adaptive	Hot
Forecasts by County		2015 Population	Usual	Weak Economy	Growth	Innovation	Growth
<u>Metro</u>		490.022	800 148	826 F01	842 280	996 001	046 216
Avarabas		409,923	890,148	850,501	042,209	880,001	940,210
Arapanoe		629,066	899,738	845,513	851,363	895,546	956,410
Broomfield		64,656	95,566	89,806	90,428	95,121	101,585
Denver		680,658	952,955	895,523	980,185	1,067,123	1,012,979
Douglas		322,198	482,824	453,725	456,865	480,575	513,236
Jefferson		564,619	694,943	653,061	657,579	691,705	738,716
Elbert	part	17,006	45,725	42,970	43,267	45,512	48,606
North Platte							
Jackson		1,353	1,279	1,055	1,210	1,364	1,457
<u>Rio Grande</u>							
Alamosa		15,968	22,934	17,593	21,701	26,209	27,990
Coneios		8.074	8,997	6.902	8.513	10.282	10,980
Costilla		3 572	3 934	3 018	3 722	4 496	4 801
Mineral		720	050	736	907	1,450	1 170
Rio Granda		11 412	11 612	9 007	10.099	12,000	1,170
Rio Grande		11,413	11,012	8,907	10,988	15,270	14,172
Saguacne		6,219	6,668	5,115	6,309	7,620	8,138
South Platte							
<u>Republican Basin</u>							
Cheyenne	part	1,144	1,026	876	970	1,111	1,187
Kit Carson		8,219	9,595	8,194	9,079	10,397	11,104
Lincoln	part	1,064	1,627	1,390	1,540	1,763	1,883
Logan	part	2,032	2,711	2,315	2,565	2,938	3,137
Phillips		4,307	4,372	3,734	4,137	4,737	5,059
Sedgwick	part	1,008	984	840	931	1,066	1,139
Washington	part	3,790	3,763	3.214	3.561	4.078	4.355
Yuma	1	10.052	11.398	9.734	10.785	12.351	13,190
Remainder South Platt	ρ		,	-,		,==	
Boulder		318 570	117 813	382 458	460 770	558 020	518 258
Clear Creek		0 202	12 // 8	10 631	11 770	13 / 88	14 405
Gilnin		5,552	12,448	10,031 E 6E0	6 270	7 1 20	7 660
Gipin		3,824	0,020	5,039	0,270	7,100	7,008
Larimer		332,830	543,588	464,224	564,664	677,320	629,057
Logan	part	20,090	26,805	22,891	25,364	29,045	31,019
Morgan		28,230	42,734	36,495	40,436	46,306	49,453
Park		16,716	23,797	20,323	22,518	25,786	27,539
Sedgwick	part	1,381	1,348	1,151	1,275	1,461	1,560
Teller	part	11,490	16,323	13,939	15,445	17,687	18,889
Washington	part	1,044	1,037	885	981	1,123	1,200
Weld		284,571	734,343	627,129	779,320	915,004	849,804
<u>Southwest</u>							
Archuleta		12,417	26,571	17,070	25,142	35,845	38,281
Dolores		1,972	2,597	1,668	2,457	3,503	3,742
La Plata		54,857	94,002	60,391	101,831	126,811	135,430
Montezuma		26 129	47,158	30,296	44 623	63 617	67,941
Montrose	nart	4 085	7 449	4 785	7 048	10 048	10 731
San Juan	pure	696	767	/93	726	1 035	1 105
San Miguel		7,843	17,293	11,110	19,183	23,329	24,914
<u>Yampa-White</u>							
White Basin							
Rio Blanco		6,529	7,376	4,237	6,979	10,599	11,319
		40.004	42.000	7 000	42 422	10.007	24.201
		12,884	13,868	7,966	13,122	19,927	21,281
RUULL		24,310	45,998	26,420	50,336	66,095	70,587

Table 3. Population Projections by County for the Five Planning Scenarios (continued)

Updated Population Projections for Water Plan Scenarios

		Business as		Cooperative	Adaptive	Hot
Forecasts by County	2015 Population	Usual	Weak Economy	Growth	Innovation	Growth
Multi-basin Counties (complete to	tals by county)					
Cheyenne County	1,830	1,641	1,472	1,553	1,710	1,826
Elbert County	24,640	66,251	62,861	62,689	65,477	69,927
Lincoln County	5,549	8,484	8,035	8,028	8,432	9,006
Logan County	22,122	29,516	25,207	27,929	31,983	34,157
Mesa County	149,023	236,554	206,364	245,307	287,295	268,465
Montrose County	40,795	74,391	55,443	70,391	89,034	95,084
Sedgwick County	2,389	2,332	1,992	2,207	2,527	2,699
Teller County	23,431	33,287	30,380	31,497	34,187	36,511
Washington County	4,834	4,800	4,099	4,542	5,201	5 <i>,</i> 555

Table 3. Population Projections by County for the Five SWSI Scenarios (continued)

References

Harvey Economics, 2050 Population Projections for the State of Colorado Municipal and Industrial Water Use Projections, Colorado Water Conservation Board, 2010.

Colorado Division of Local Governments, State Demography Office. Preliminary Population Forecasts by Region and County, 2010 – 2050. 2016.

Colorado Water Conservation Board, Colorado's Water Plan, 2015. Chapter 6.

Appendix A: Maps of Population Projections for Three of the Five Planning Scenarios











Growth by County in Adaptive Innovation Projections

A-3

Growth by County Across Three of the Five Scenarios

Business As Usual

Weak Economy

Adaptive Innovation





