# Salt Lak leber Rive CUWCD Jor Verview for the Moon Lake Legislative Water Development Cerommission Reservoir August 20, 2019 Starvation Reservoir Hah Lake Currant Creek Strayberry Reservoir Strawberry River



## Who are we?

The Central Utah Water **Conservancy District** (CUWCD) was created in 1964. CUWCD is governed by a Board of 18 Trustees who are nominated by county councils and commissions, appointed by the Governor, and confirmed by the Utah State Senate to serve fouryear terms.

### Board of Trustees



G Wayne Andersen Utah County

Steve Farrell

Wasatch/Summit

County

**JR Bird** Duchesne County



Salt Lake County



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Greg McPhie Wasatch/Summit County



N Gawain Snow **Uintah County** 





Byron Woodland Juab County



Boyd Workman **Uintah County** 





What are our strategic statements?

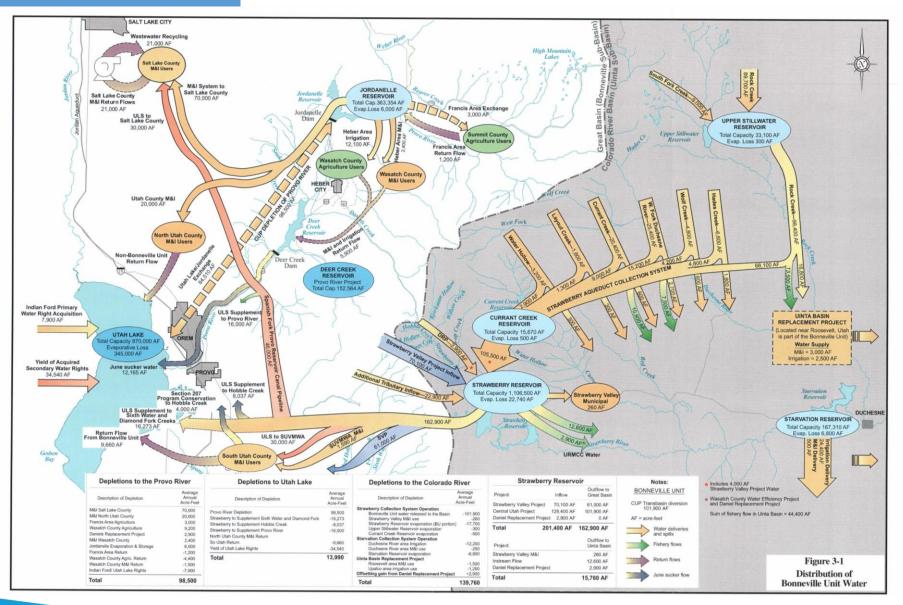
*Our Mission:* To responsibly plan for the future by developing, delivering, and efficiently using our limited water resources.

*Our Vision:* To provide a safe and secure water supply, to empower and challenge employees, and to be a leader in the water industry.

Our Values: We value safety, integrity, quality, and people.

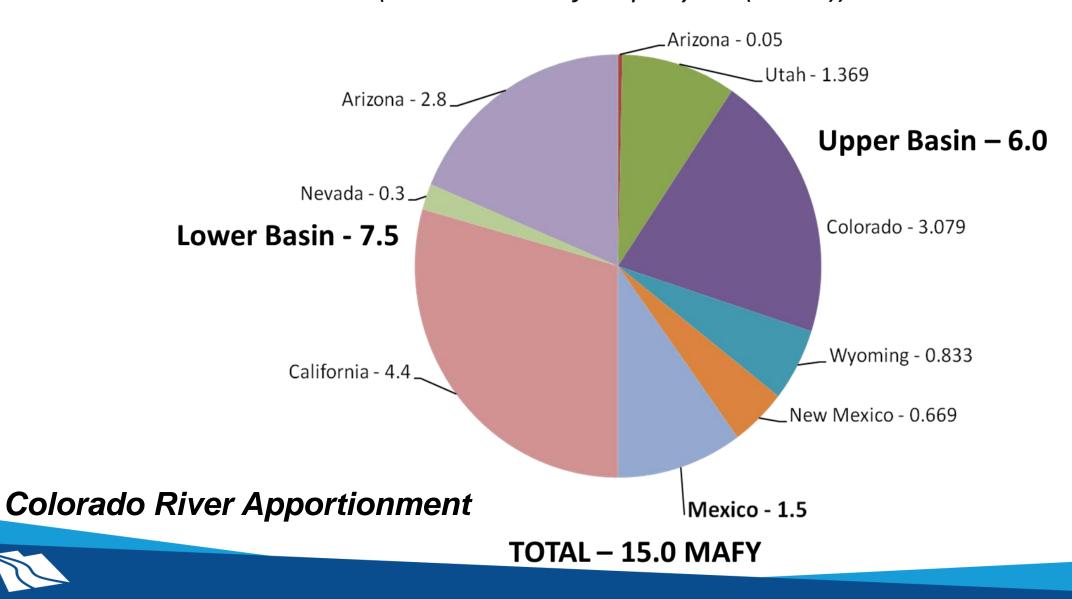


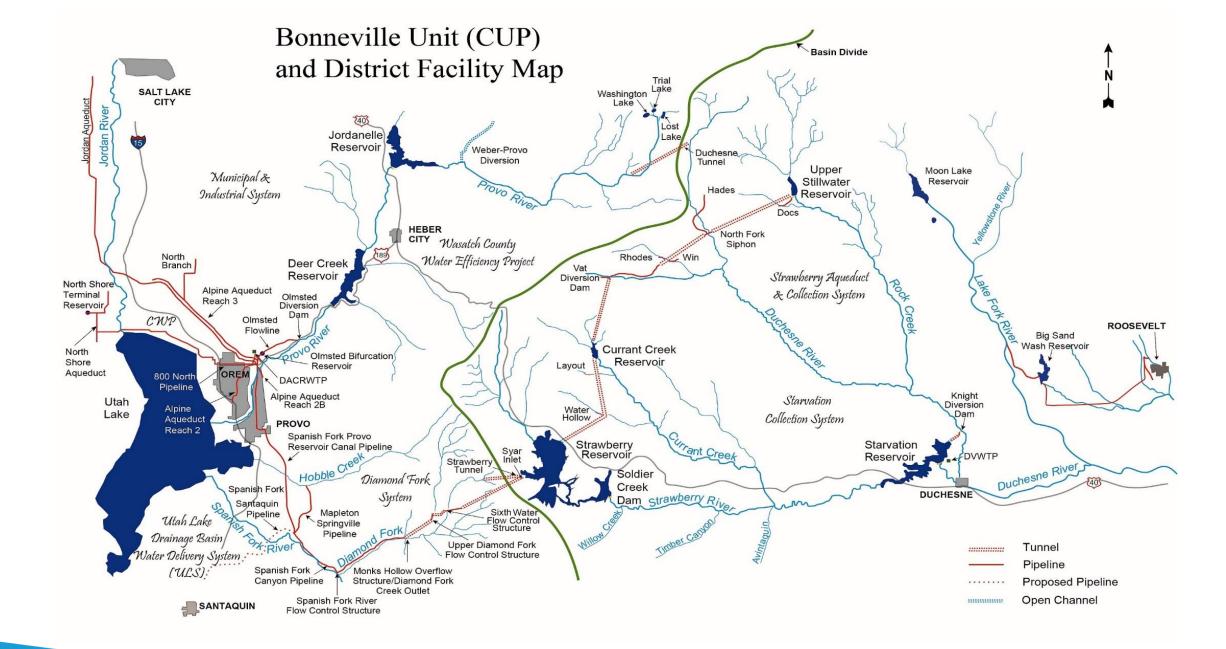
### What do we do?





### **Compact and Treaty Apportionment Based on Current Hydrology** (in million acre feet per year (MAFY))





Research Brief



### Utah's Long-Term Demographic and Economic Projections Summary

Principal Researchers: Pamela S. Perlich, Mike Hollingshaus, Emily R. Harris, Juliette Tennert & Michael T. Hogue

### Background

The Kem C. Gardner Policy Institute prepares long-term demographic and economic projections to support informed decision making in the state. The Utah Legislature funds this research, which is done in collaboration with the Governor's Office of Management and Budget, the Office of the Legislative Fiscal Analyst, the Utah Association of Governments, and other research entities. These 50year projections indicate continued population growth and illuminate a range of future dynamics and structural shifts for Utah. An initial set of products is available online at gardner.utah.edu. Additional research briefs, fact sheets, web-enabled visualizations, and other products will be produced in the coming year.

### State-Level Results

#### Population

Utah's population is projected to increase from approximately 3 million in 2015 to 5.8 million in 2065.

an annual average rate of change of 1.3 percent.

- The Utah population reached 3 million in 2015. Utah is projected to reach 4 million in 2032 (17 years after 2015), 5 million in 2050 (18 years after 2032), and 5.8 million in 2065.
- Though growth rates are projected to decelerate over the next 50 years, they are also projected to exceed national growth rates. Utah's growth in each decade ranges from 9.7 percent (2050-2060) to 16.7 percent growth (2010-2020). The national range is 4.4 percent (2050-2060) to 7.5 percent (2010-2020).

#### **Components of Population Change**

 Utah's total fertility rate (average number of children born to a Utah woman in her lifetime) is projected to continue the existing trend of a slow decline. From 2015-2065, rates are projected to decline from 2.32 to 2.29. These rates are projected to remain higher than national rates that move from 1.87 to 1.86 over a similar period.

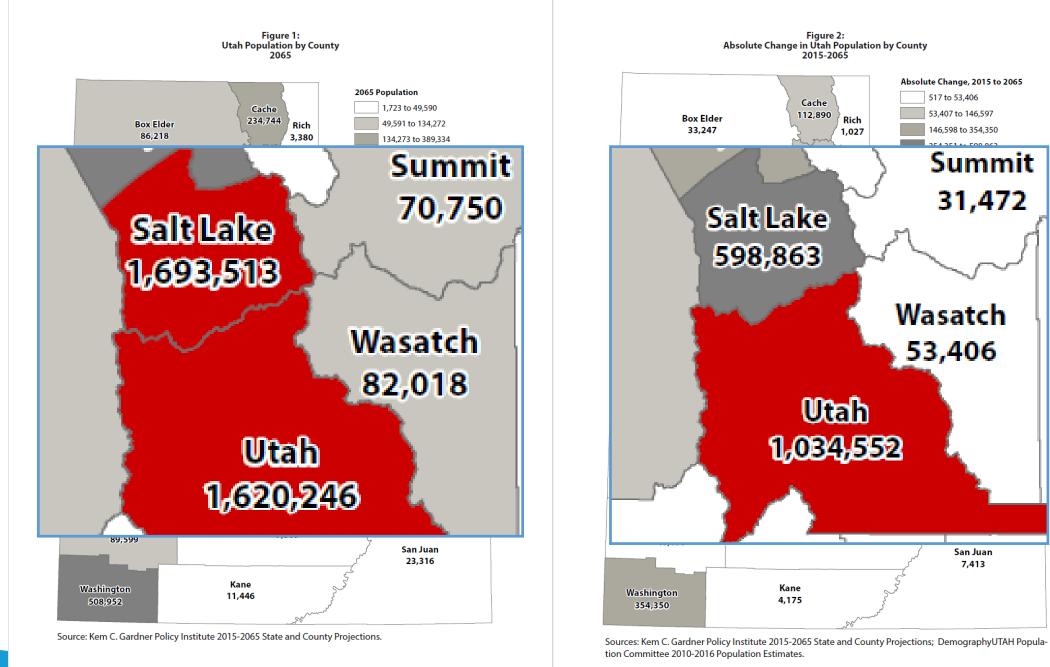
- In 2065, life expectancy in Utah is projected to be 86.3 for women and 85.2 for men. This is an increase of approximately 4 years for women and 6 years for men. The sharper increase for men narrows the life expectancy gap traditionally seen between the sexes.
- Natural increase (births minus deaths) is projected to remain positive and account for two-thirds of the cumulative population increase to 2065. However, given increased life expectancy and declining fertility,

the rate "Utah's population is ed to slov Net migr tive pop projected to increase from the conti tion conv Age Compos approximately 3 million in Utah's m and a h years in 2 2015 to 5.8 million in 2065." increasi larger populati

- The share of the population ages 65 and older is projected to double over the next 50 years, rising from 10.2 percent of the population in 2015 to 20.3 percent in 2065.
- In 2015, Utah had 372 centenarians (people at least 100 years old). That number is projected to be nearly 20 times greater by 2065, reaching 6,846 centenarians.

#### INFORMED DECISIONS™

Kem C. Gardner Policy Institute | 411 East South Temple Street, Salt Lake City, Utah 84111 | 801-585-5618 | gardner.utah.edu A N INITIATIVE OF THE DAVID ECCLES SCHOOL OF BUSINESS



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### How do we handle it?

*"Conservation must be our first water project."* 

"Aging infrastructure must be replaced to maintain current water supply."

"New water supply must be developed for future growth."



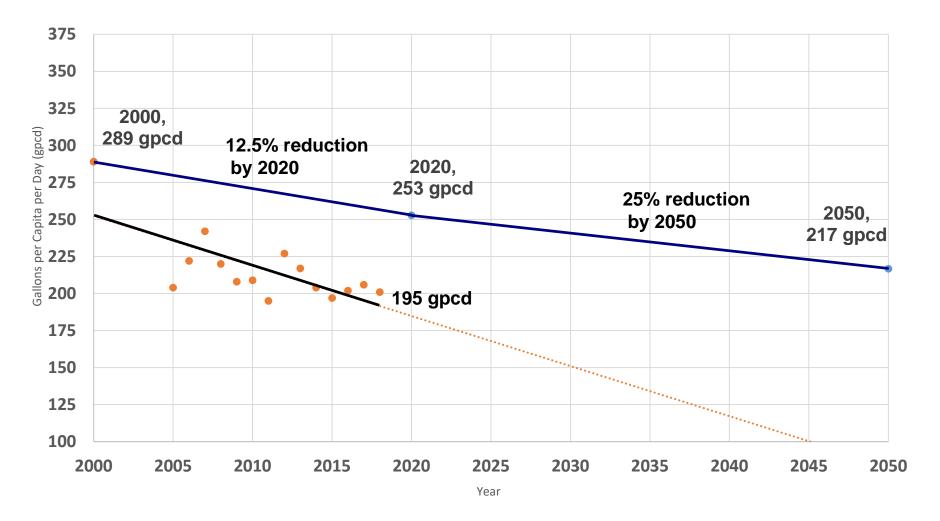
Understanding Utah's Water Municipal Manual Ist EDITION





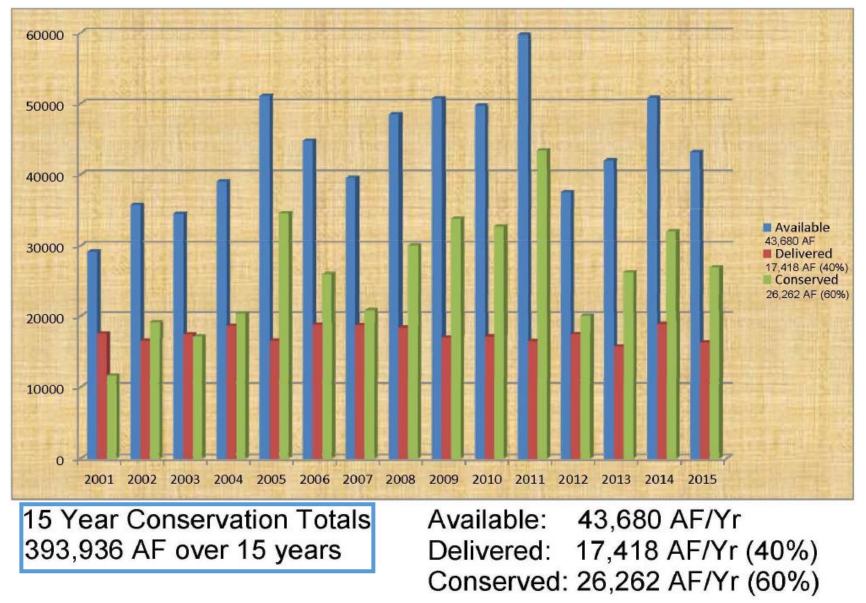
## Conservation:

### **MWDSLS Water Conservation**



Target Line Actual Progress Line ..... Linear (Actual Progress Line)

### WCWEP Conservation 2001 thru 2015



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## Aging Infrastructure:

## **Project Name: North Fork Siphon Replacement Project Cost: \$26.4M (Design & Construction)**



This project represents the first major replacement of a Central Utah Project facility. As facilities continue to age, the District's asset management program will help to identify future rehabilitation and replacement needs.

## Project Name: Olmsted Hydroelectric Power Plant Replacement Project Cost: \$41.0M (Design & Construction)



The project develops approximately 11.5MW of renewable, hydroelectric power—enough energy to power approximately 3,000 homes. It is the 4<sup>th</sup> largest hydroelectric power plant in Utah.



## CUWCD Infrastructure:

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Administration Buildings	\$	40,231,000
Dams	\$1,	,036,527,000
Diversions	\$	107,701,000
Hydropower Plants	\$	69,541,000
Water Treatment Plants	\$	230,195,000
Pipelines	\$	799,118,000
Storage Reservoirs	\$	105,456,000
Tunnels	\$	840,569,000
Other	\$	365,872,000
Total	\$3,	,595,210,000



### New Water Supply and Infrastructure:

Project Name: Utah Lake System – Spanish Fork Santaquin Pipeline Project – Spanish Fork Reach Cost: \$15.0M (Construction)



This is the first reach of 60-inch, welded-steel pipe to bring M&I water to south Utah County.



Project Name: Central Water Project – High-Head Well Drilling Project – Wells 8-10 Cost: \$7.7M (Construction)



These wells continue to develop the water rights purchased for the Central Water Project in Utah and Salt Lake counties.



