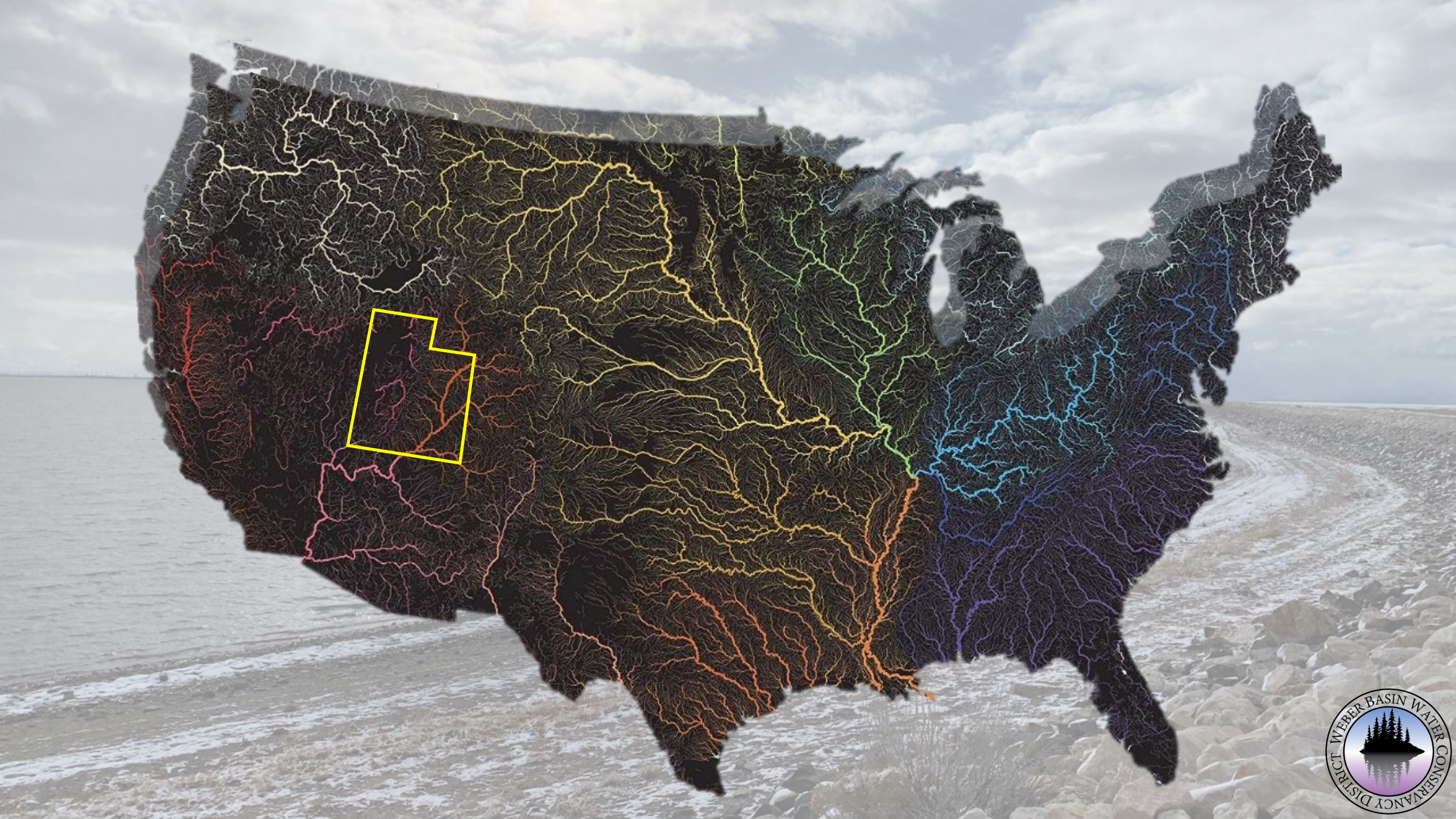




# WEBER BASIN WATER CONSERVANCY DISTRICT

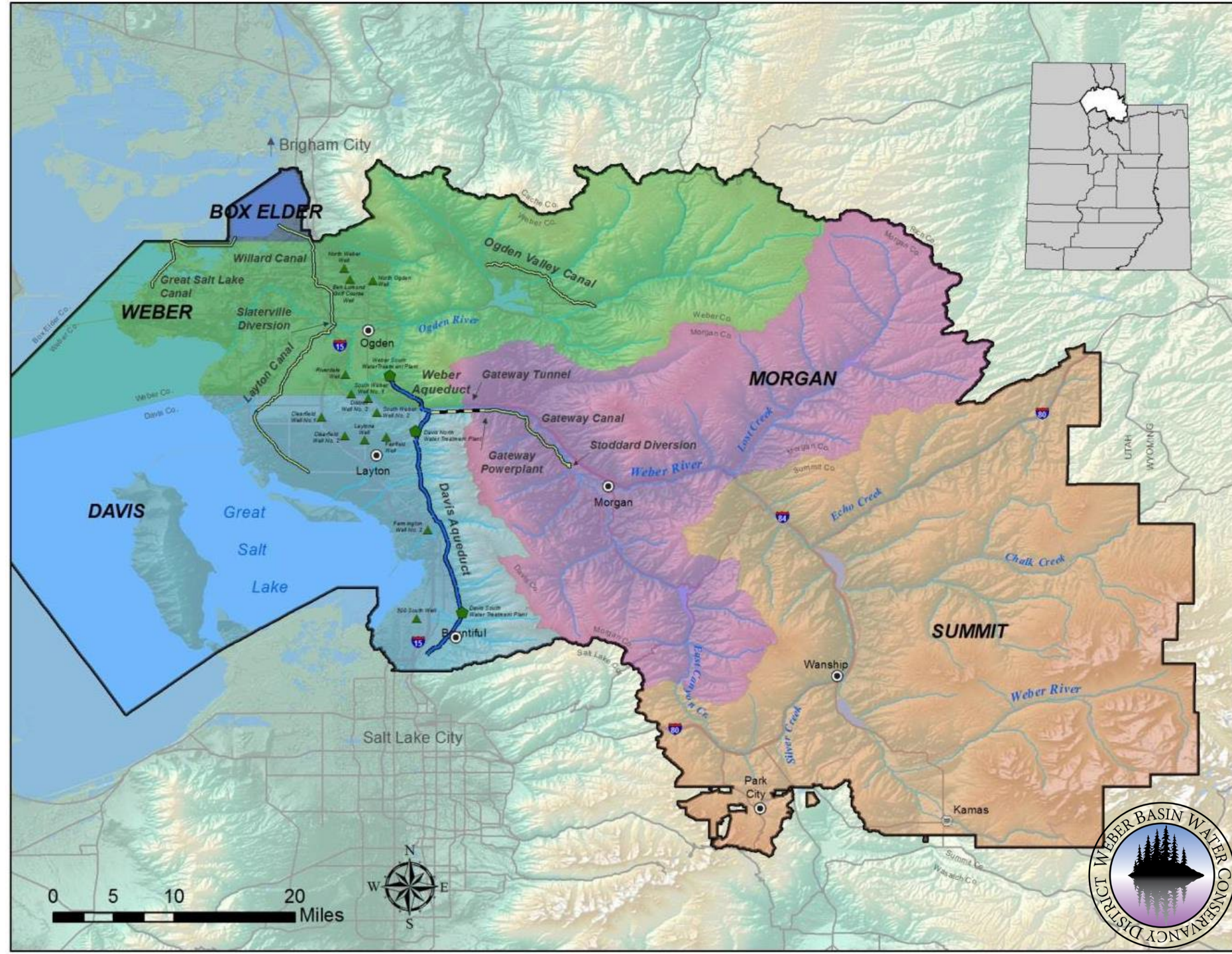








- 5 COUNTIES
- 2,800 SQUARE MILES
- 700,000 RESIDENTS
- 7 DAMS
- 3 POWER PLANTS
- 4 WTPS
- 500+ MILES OF PIPELINE
- LARGEST CONTIGUOUS SECONDARY SYSTEM IN THE NATION







Willard Bay Reservoir

WILLARD CANAL

LAYTON CANAL

OGDEN VALLEY CANAL



Pineview Reservoir



Causey Reservoir



Ogden City WTP



Lost Creek Reservoir

Slaterville Diversion



Weber South WTP

Stoddard Diversion

GATEWAY CANAL & TUNNEL

DAVIS AQUEDUCT



Davis North WTP



Davis South WTP



East Canyon Reservoir



Echo Reservoir



Rockport Reservoir



Smith & Morehouse Reservoir

WEBER-PROVO CANAL

# LEGEND

- District facilities
- District Wells
- Other facilities
- Other Wells
- Subareas
- Potable Water System

UTAH  
WYOMING



# Water Deliveries

- MUNICIPAL-
  - 60 CITIES AND DISTRICTS
- INDUSTRIAL-
  - MINERALS, REFINERIES, & MANUFACTURERS
- PRESSURE SECONDARY-
  - WHOLESALE & RETAIL
- AGRICULTURAL-
  - FIVE COUNTIES
- REPLACEMENT-
  - WELLS, UPPER VALLEYS



# WATER DEMANDS:

TABLE 5  
Estimated Water Budget

Category	Water Supply (acre-feet/yr.)*
Total Precipitation	3,453,000
Used by vegetation and natural systems	2,277,000
<i>Basin Yield</i>	<i>1,176,000</i>
Exports out of basin	37,000
<i>Available Supply</i>	<i>1,139,000</i>
Agricultural Depletions <sup>†</sup>	160,000
M&I Depletions <sup>†</sup>	87,000
Other Depletions <sup>‡</sup>	230,000
<i>Flows to Great Salt Lake</i>	<i>662,000</i>

\* Values based on 1961-1990 period of record, except as noted.

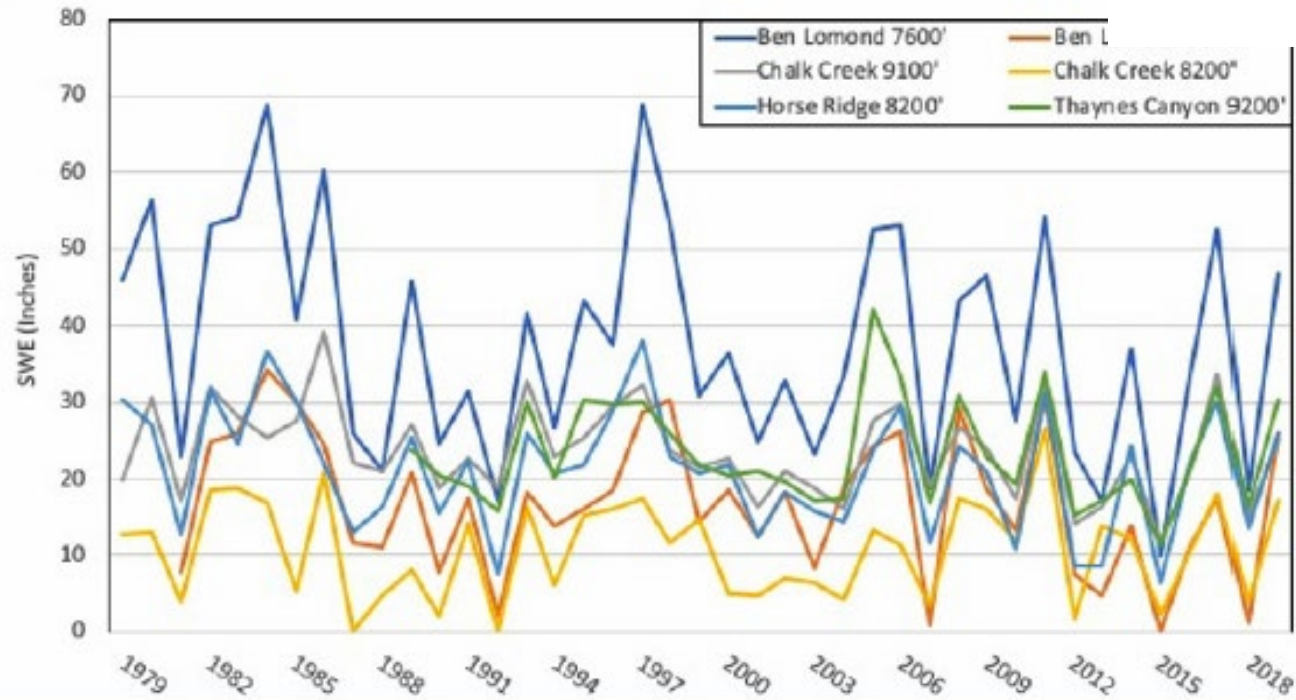
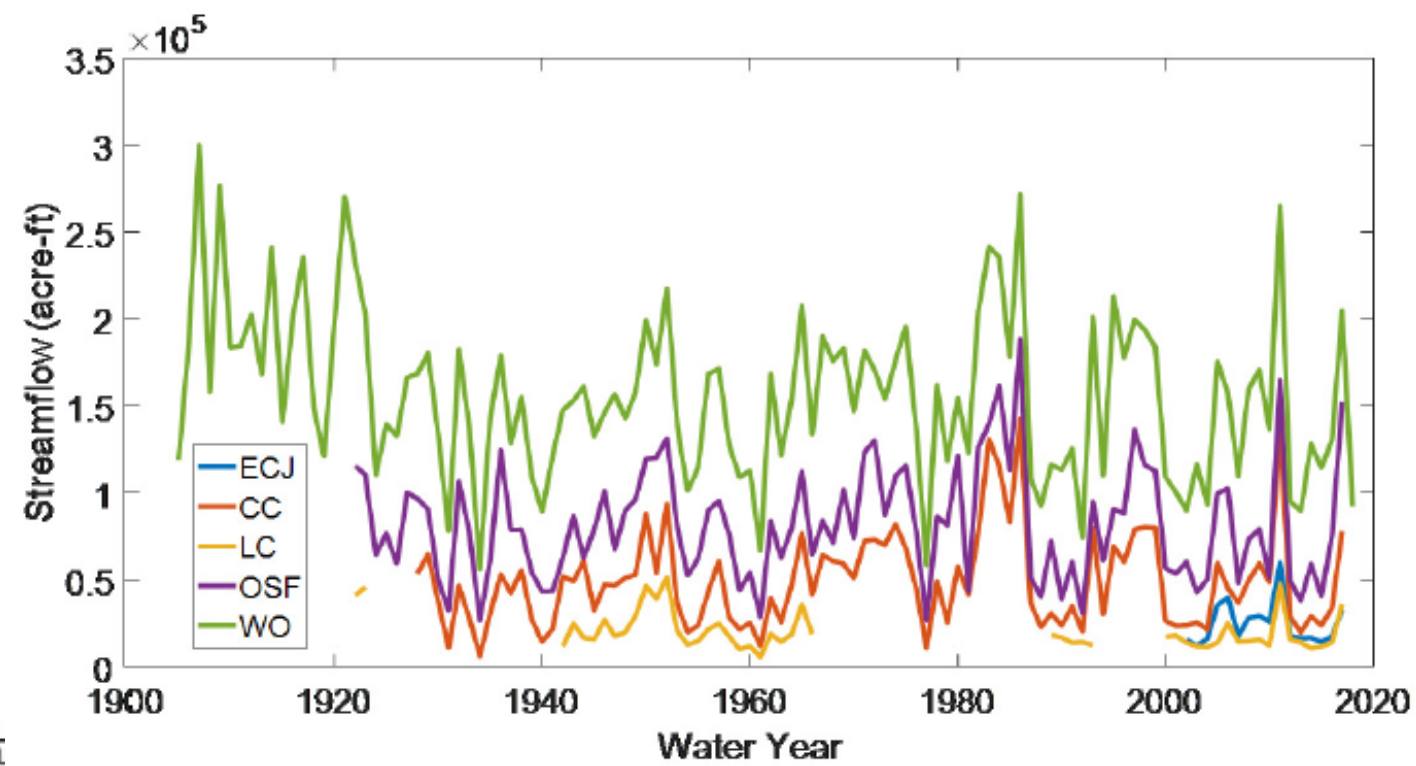
<sup>†</sup> Based on irrigated cropland observed in 2003 and M&I data collected in 2005 by the Division of Water Resources.

<sup>‡</sup> Wetland and riparian depletion and reservoir evaporation.

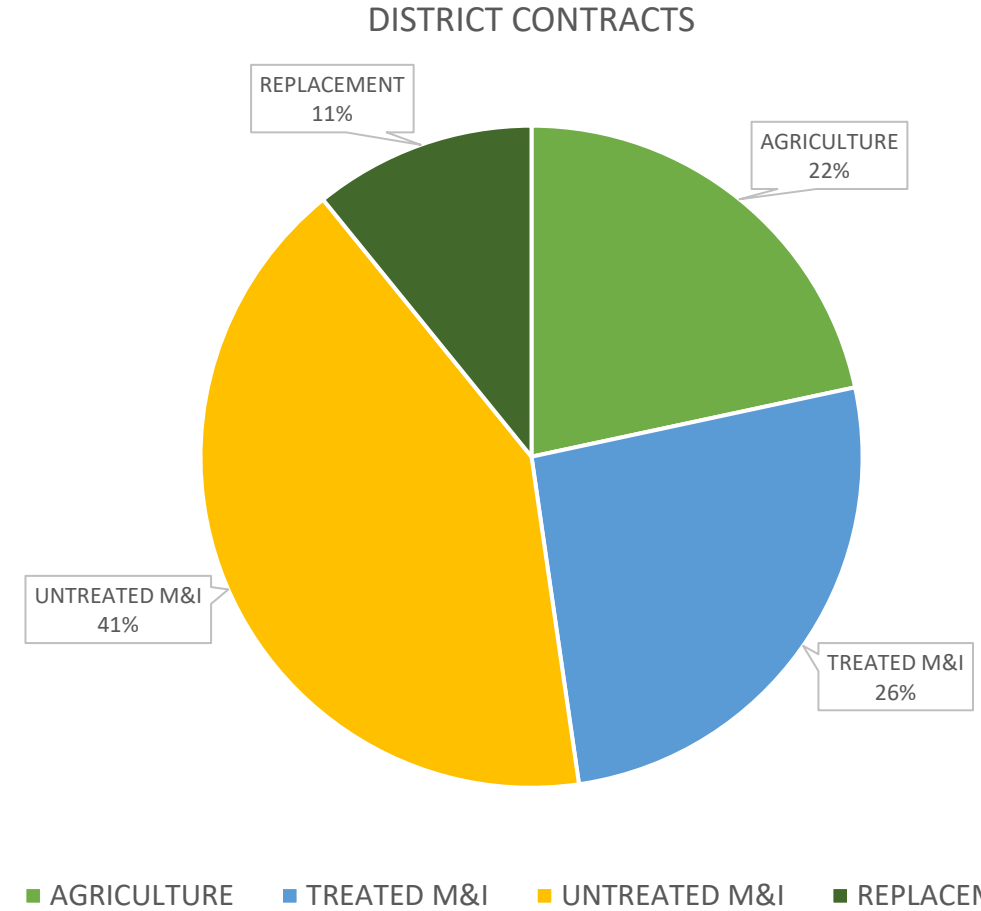
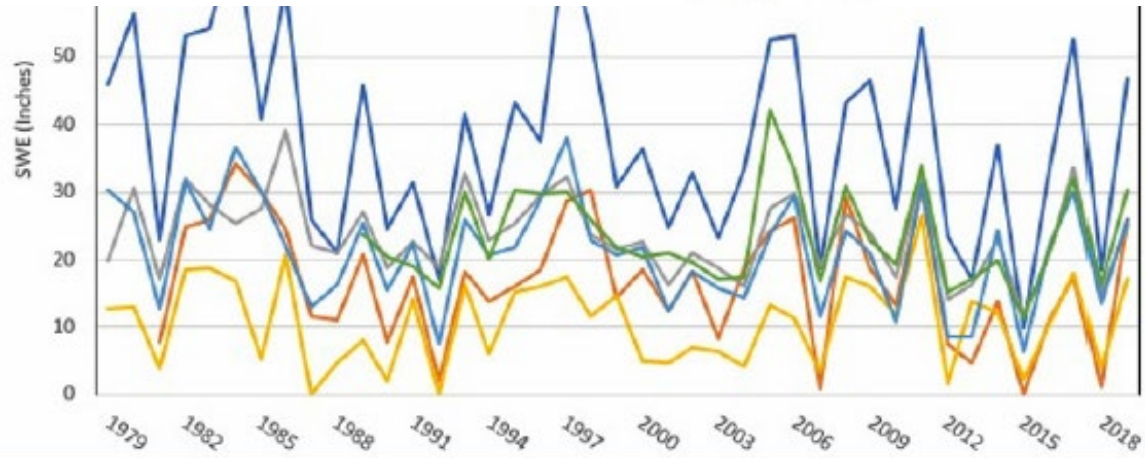
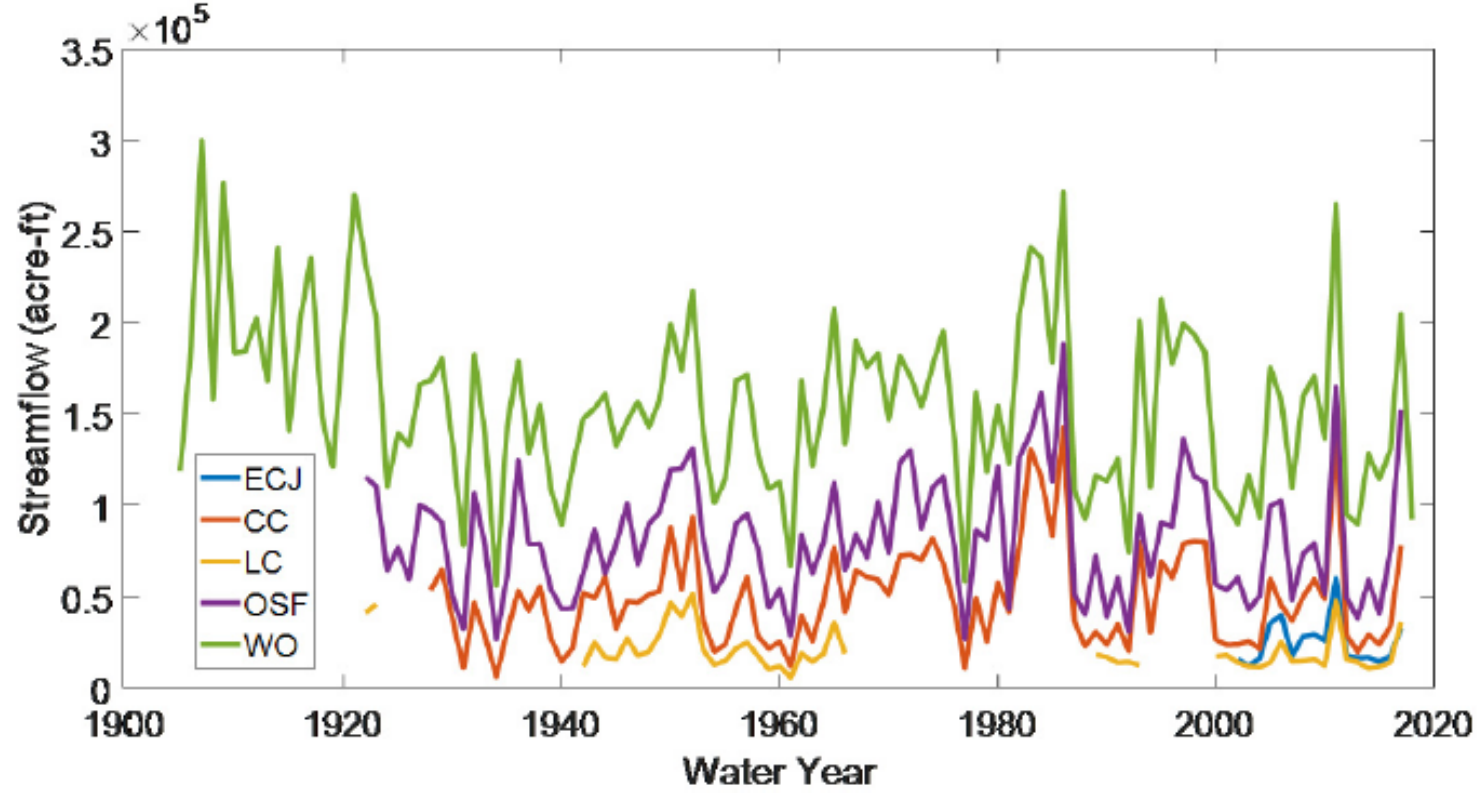




# WATER SUPPLY:

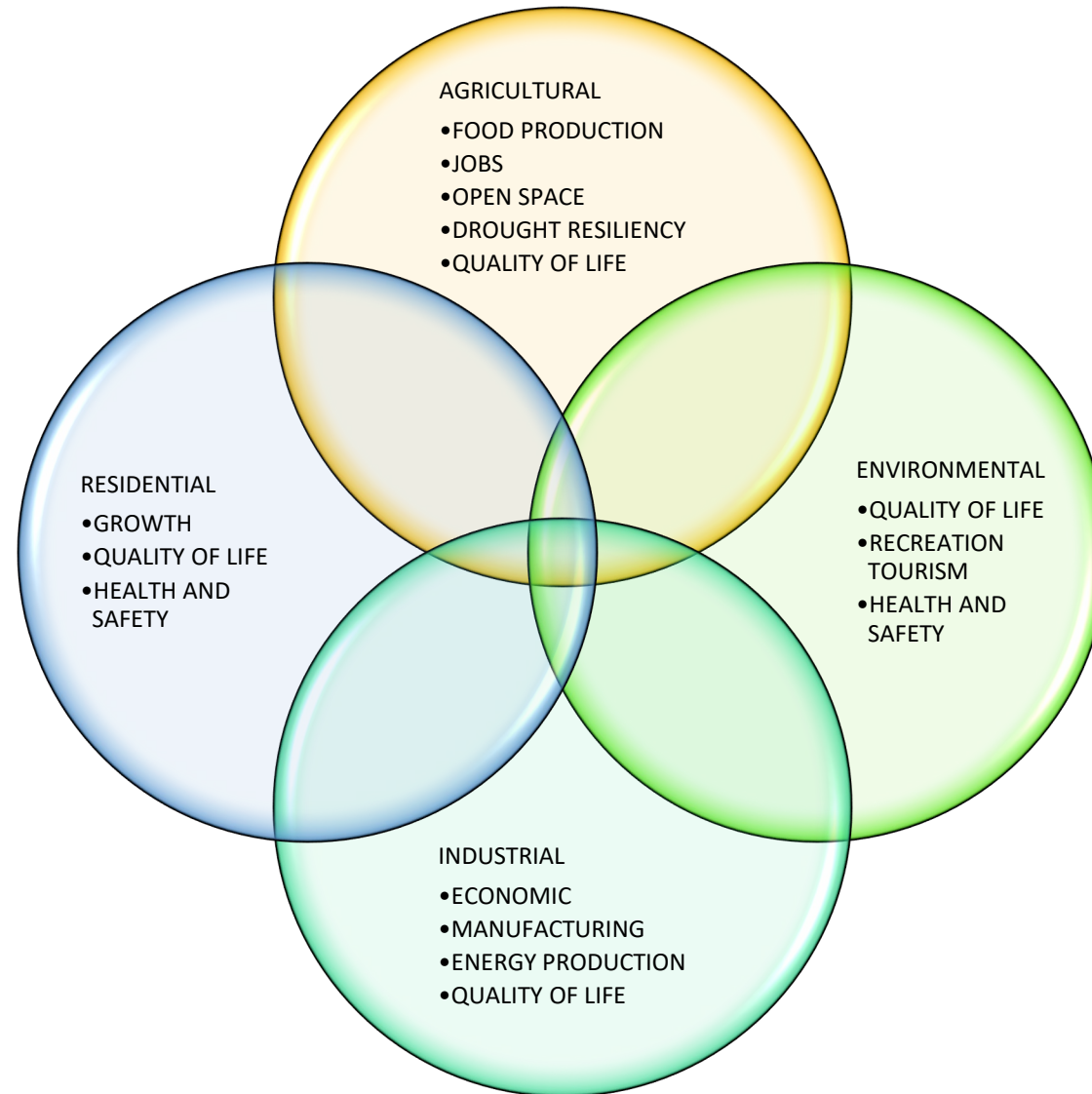


# WATER SUPPLY:





# WATER USES AND BENEFITS







Conserve and Develop  
Water Resources



Manage, Construct,  
Operate and Maintain  
WBP and District  
Facilities



Maintain Responsible  
Financial Stability



Supply High Quality  
Drinking Water



Deliver Agricultural and  
Urban Irrigation Water





# Future Utah Water Supply

- Challenges
  - Growing population
  - Climate variability (increased ET)
  - Drought
  - Aging infrastructure
  - Watershed protection
  - Environmental impacts





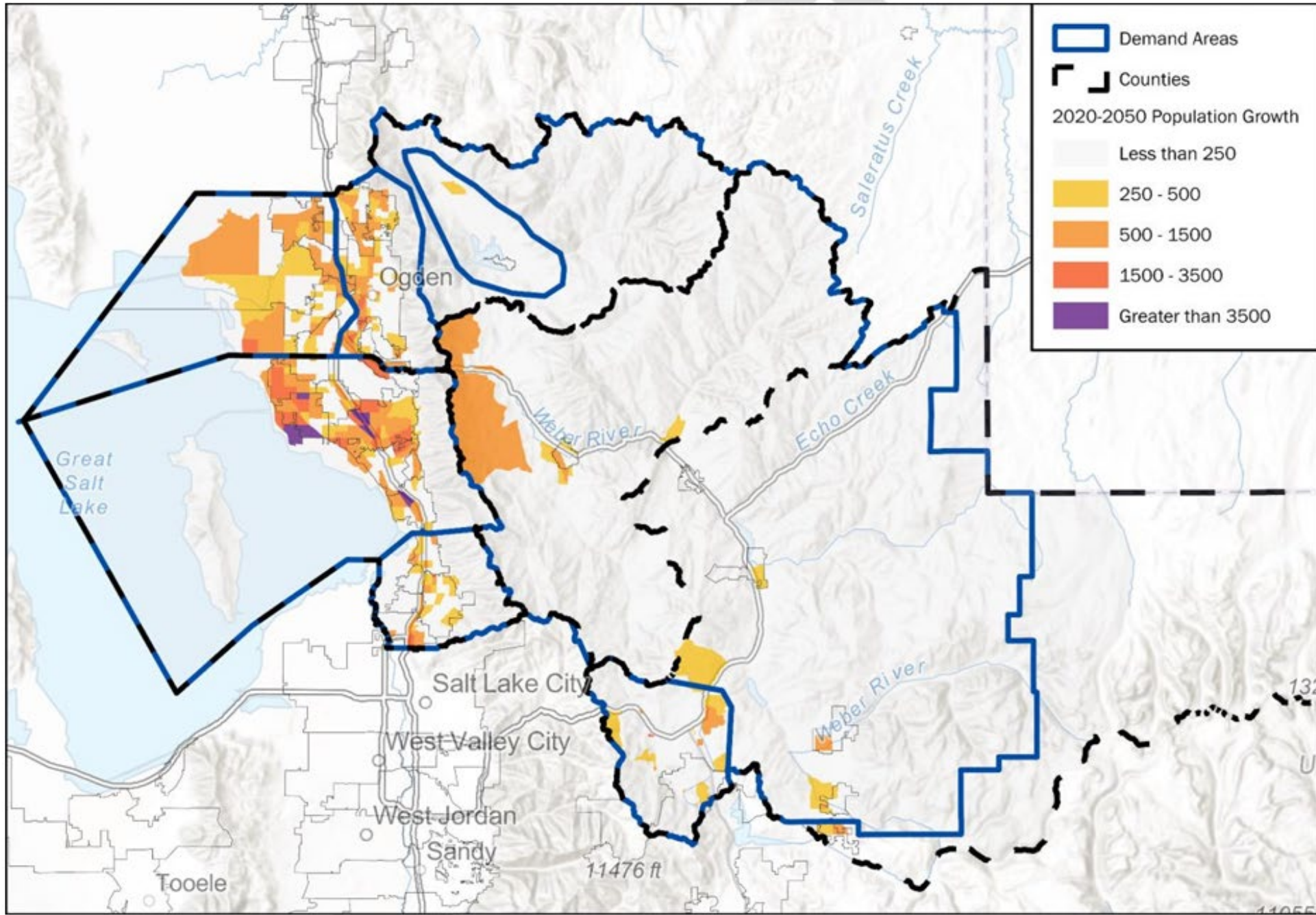
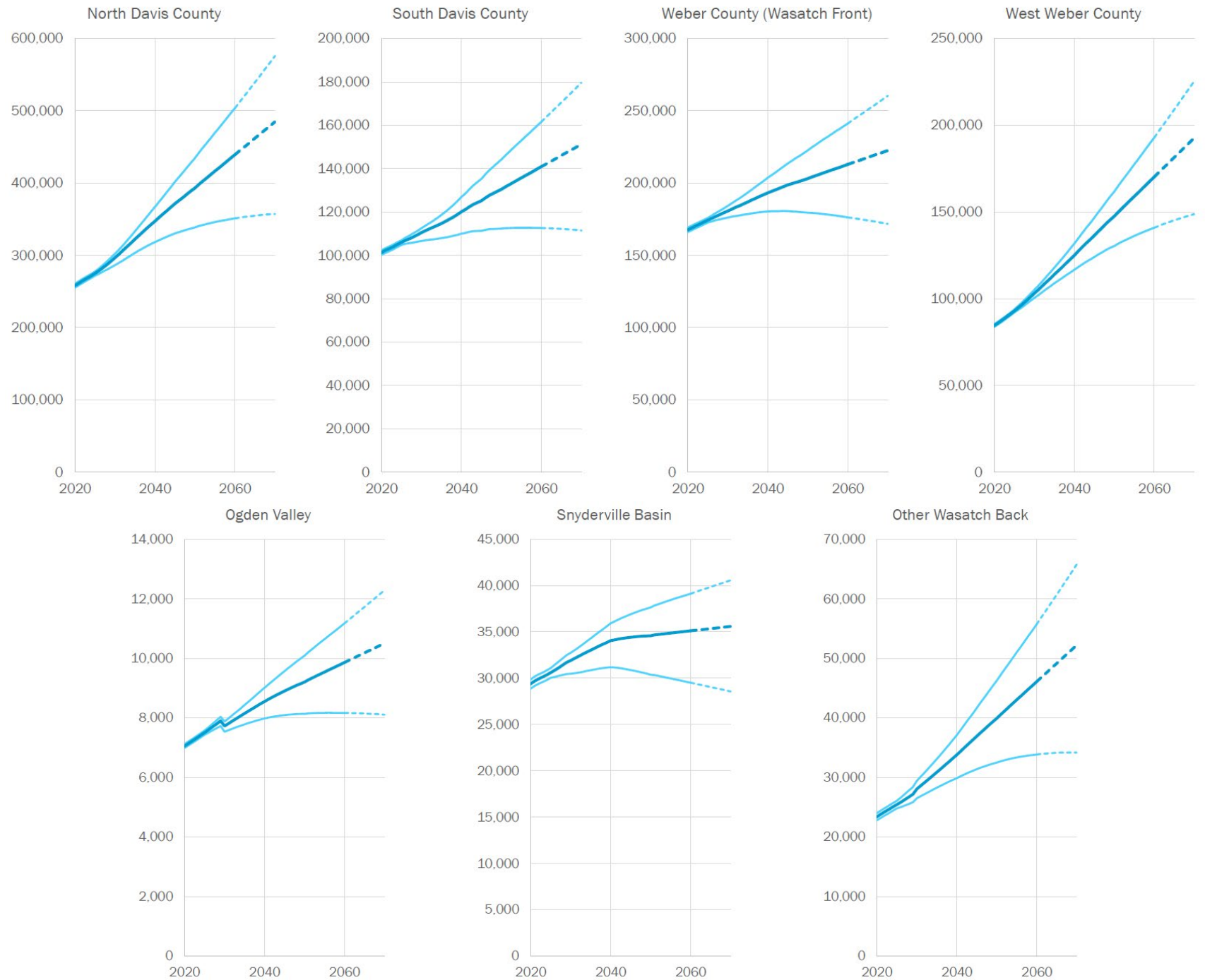


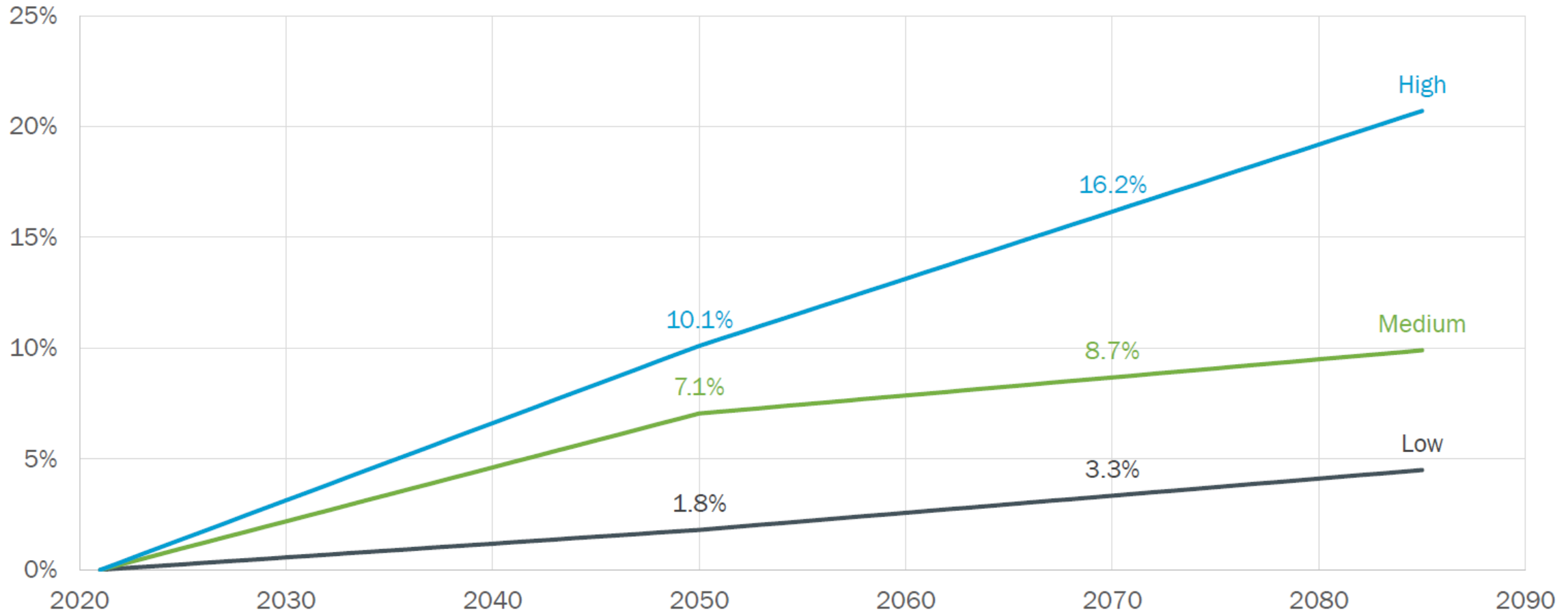
Figure 2-8. Population growth heatmap, 2020-2050







Increase in outdoor water use

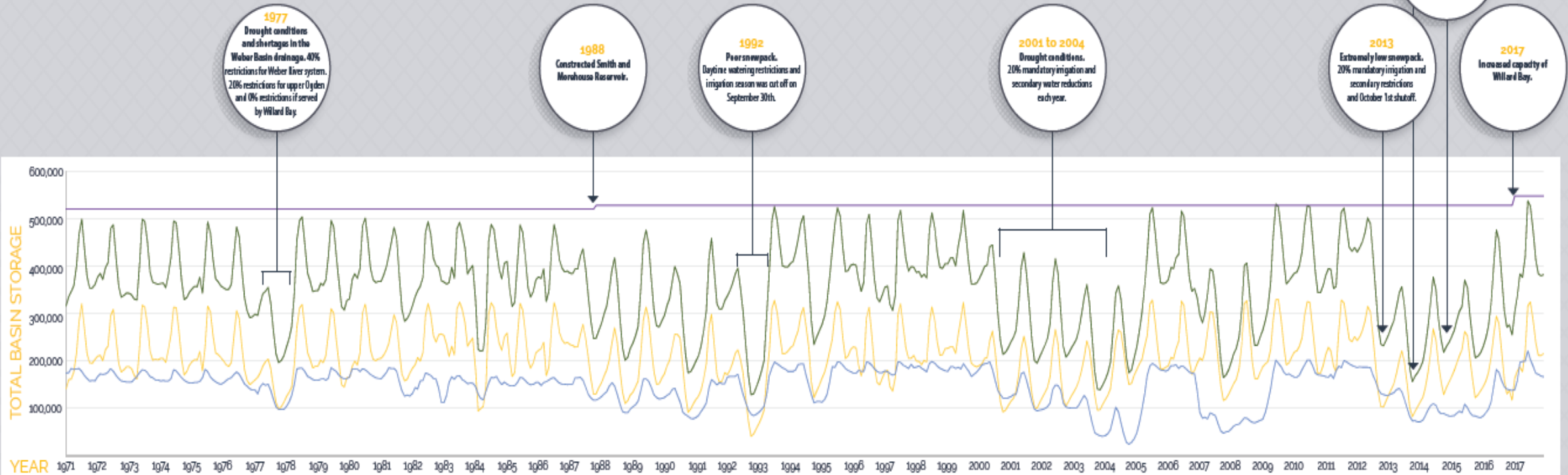


## Weber Basin Recorded Storage History (acre-feet)

1971 - 2017

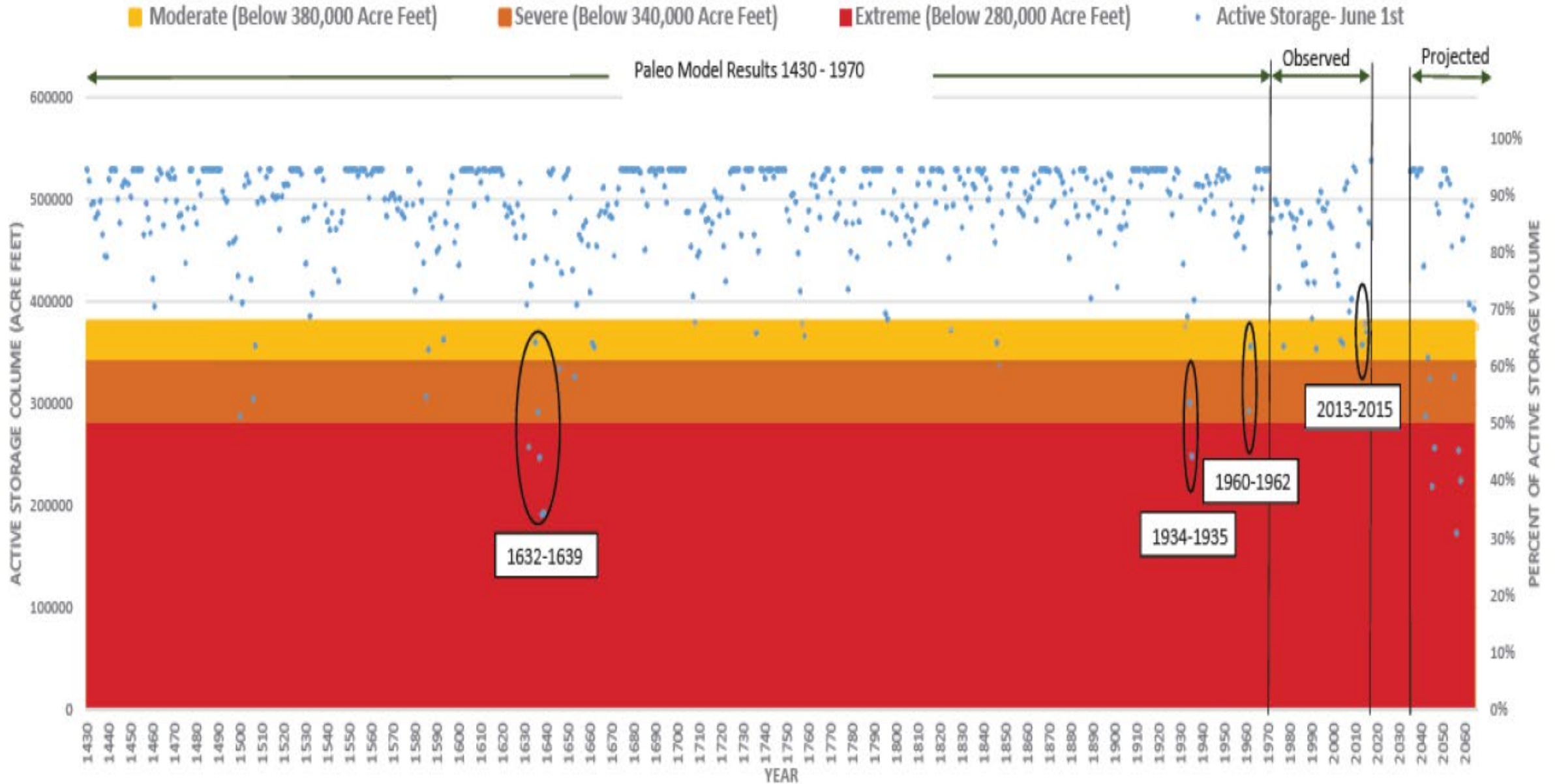
- Total Basin Capacity
- Total Basin Storage
- Total Basin Upstream Storage
- Willard Bay Storage

When droughts occur, the state and regional water suppliers, such as Weber Basin Water Conservancy District, could experience a variety of problems. If identified and evaluated, problems can be resolved in an organized and cost-efficient manner. The most significant impacts relate to agriculture, municipal water supplies, tourism, and wildlife preservation. Electric power generation and water quality may also be adversely affected.





# Total Basin Storage with Hot/Dry Climate Projection



# Future Utah Water Supply

- Water Conservation
  - Agricultural to M&I conversion
  - Water Development Projects
  - Water Reuse
  - Other Strategies
- 
- Chapter 6 – Future Water Supply, Demand, & Development (2021 Water Resources Plan)





# District Supply and Demand

- Projections of demand and supply summary
- New project volumes
- Conservation
- Ag to M&I





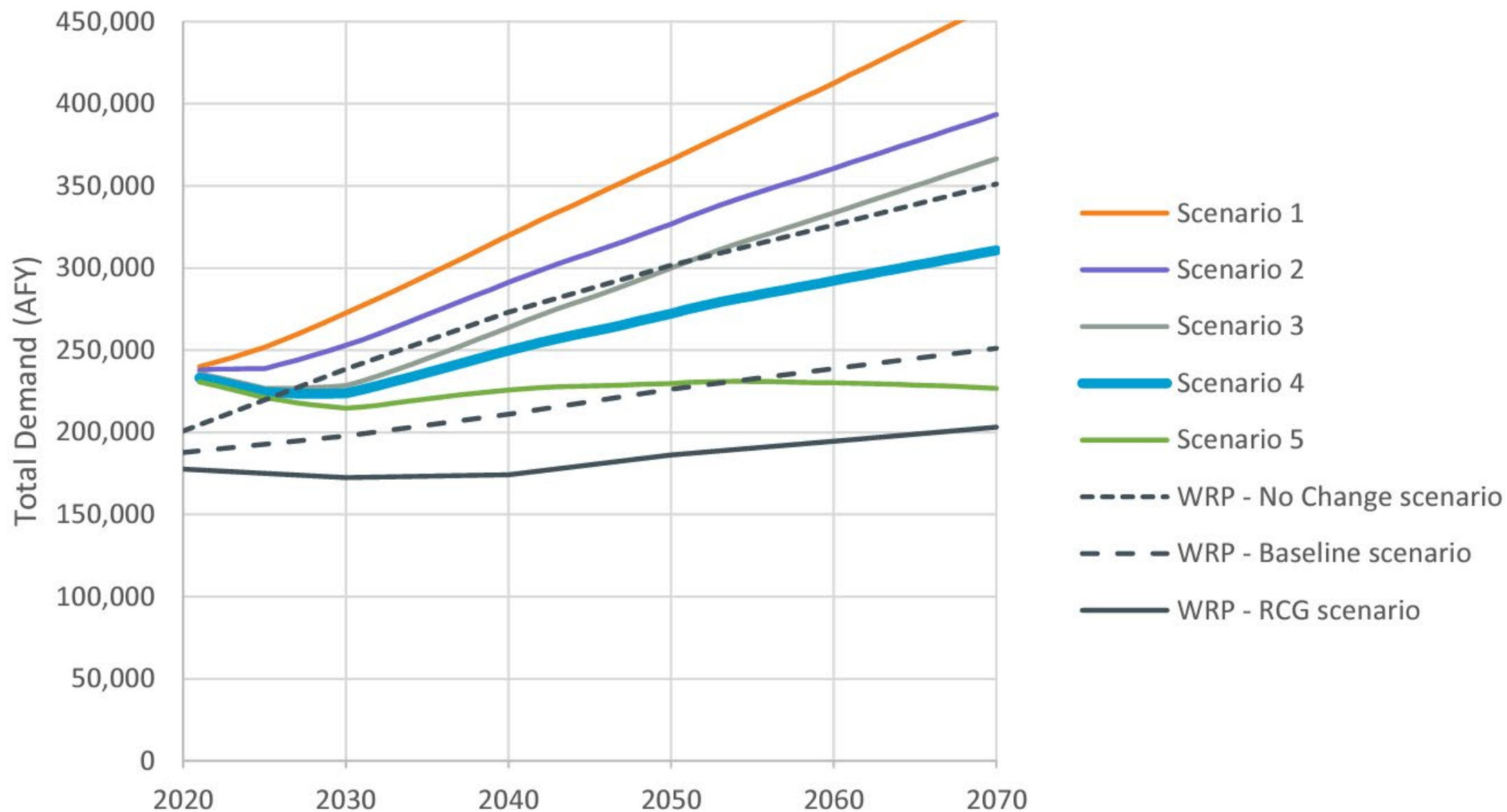
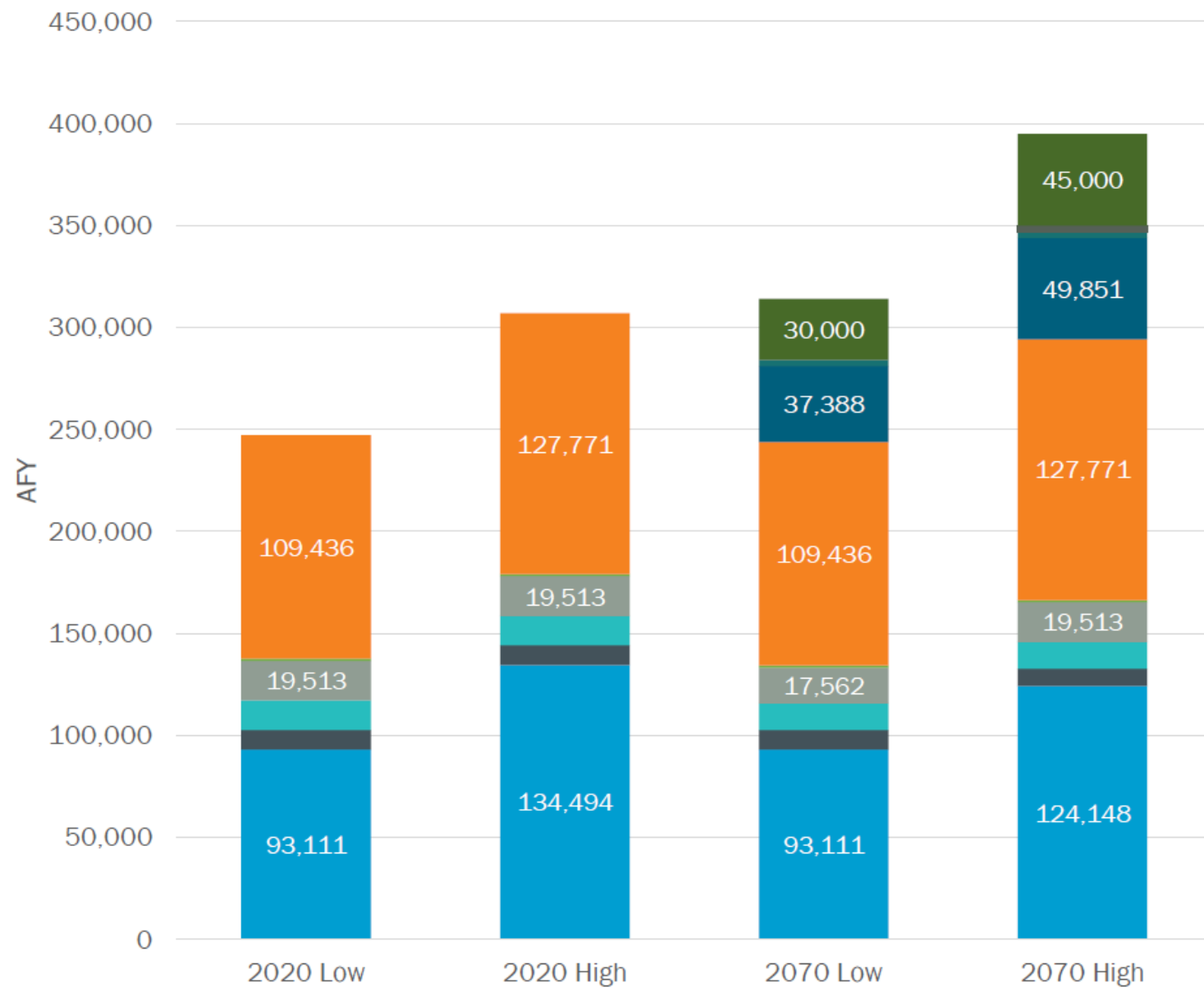
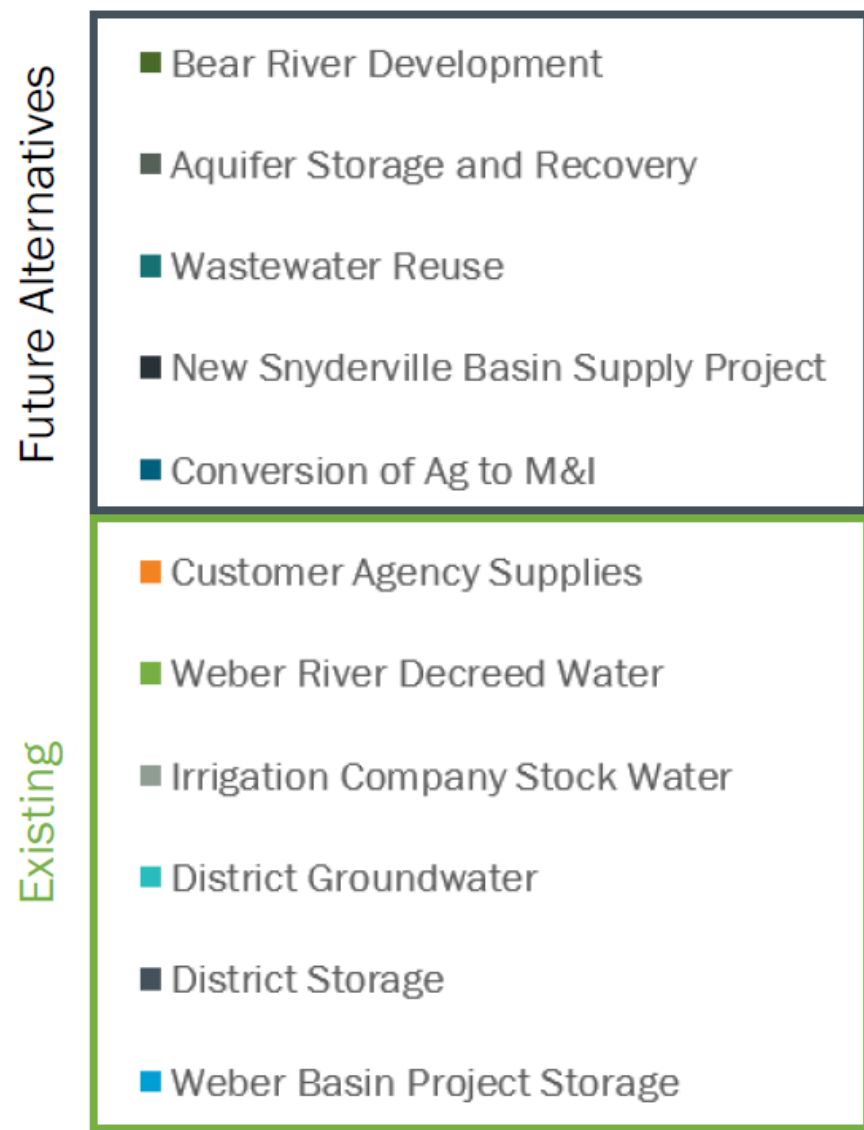


Figure 2-13. Total Weber River Basin water use comparison



# Supply Estimate





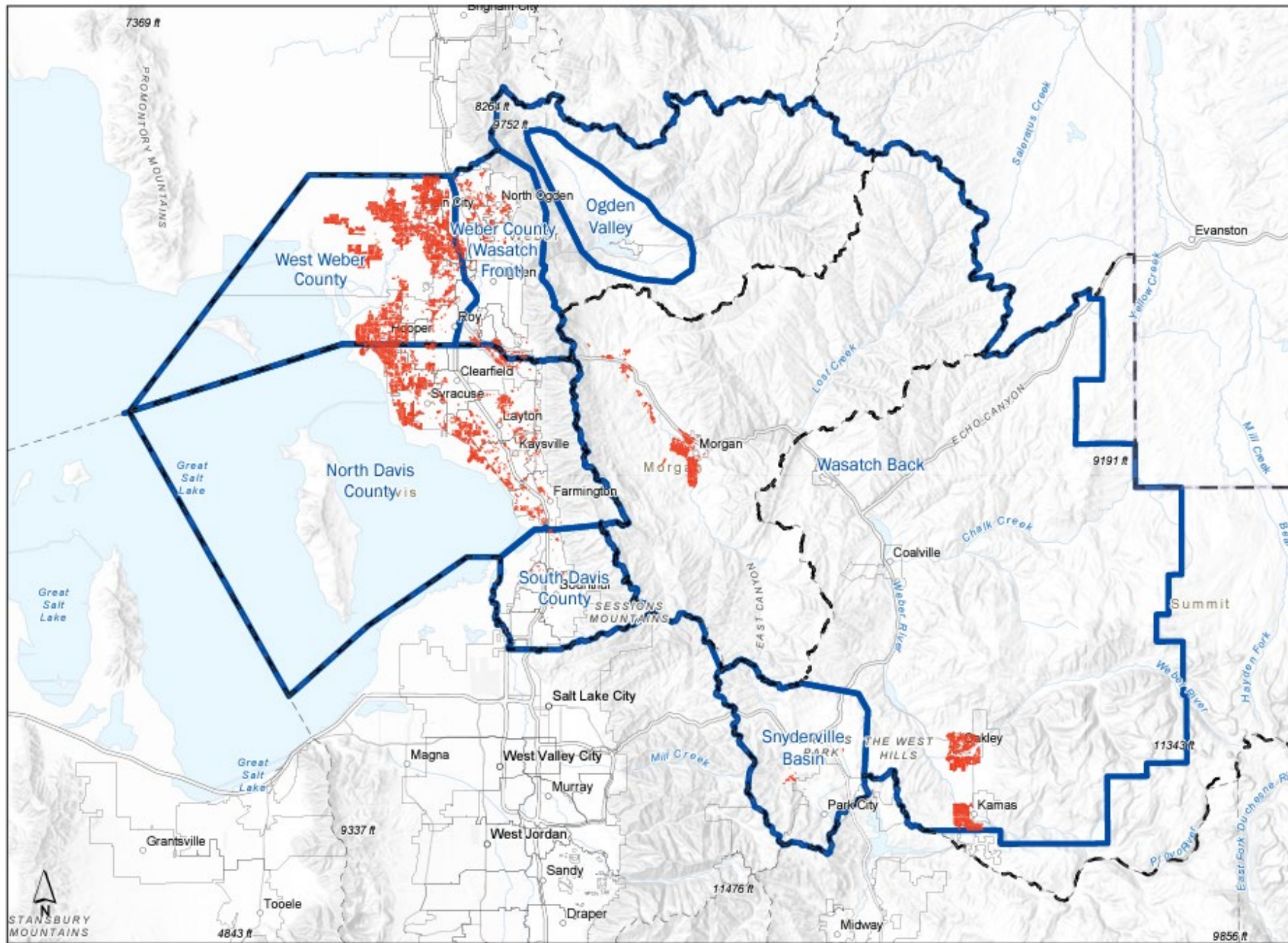


Figure 3-5. Agricultural to M&I Conversion Areas

# Policies

- Invest in Conservation Programs (delay need for new developed sources of water)
- Integrated Land Use and Water Planning (identify community goals and priorities, understand trade-offs and impacts of policies)
- Water Banking
- Ag Optimization
- Split Season Leasing
- Drought Triggered Banking/Leasing
- EDUCATION
  - Fosters public understanding, support and participation in programs







**“Change is the law of life. And those who look only to the past or present are certain to miss the future.”**

**-John F. Kennedy**