



Water Planning & Data Sharing in Utah

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Water Planning

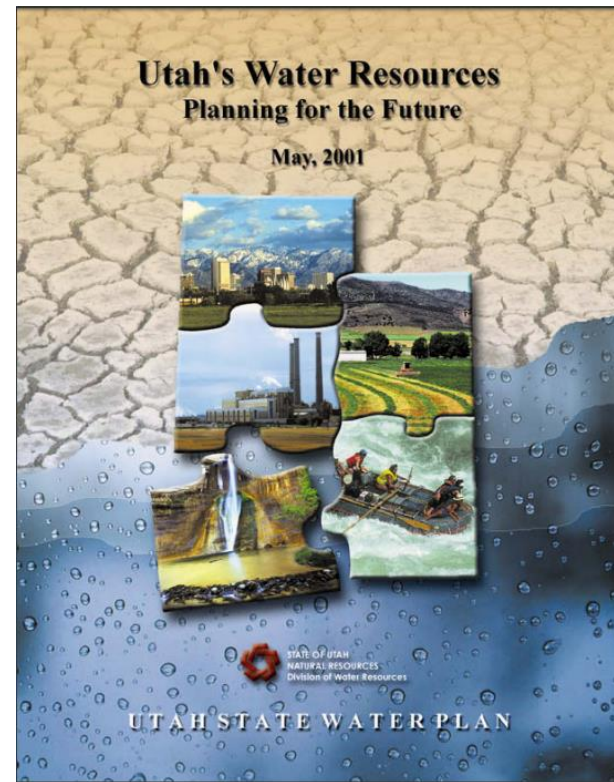


- State Water Plan
- River Basin Plans
- Special Studies

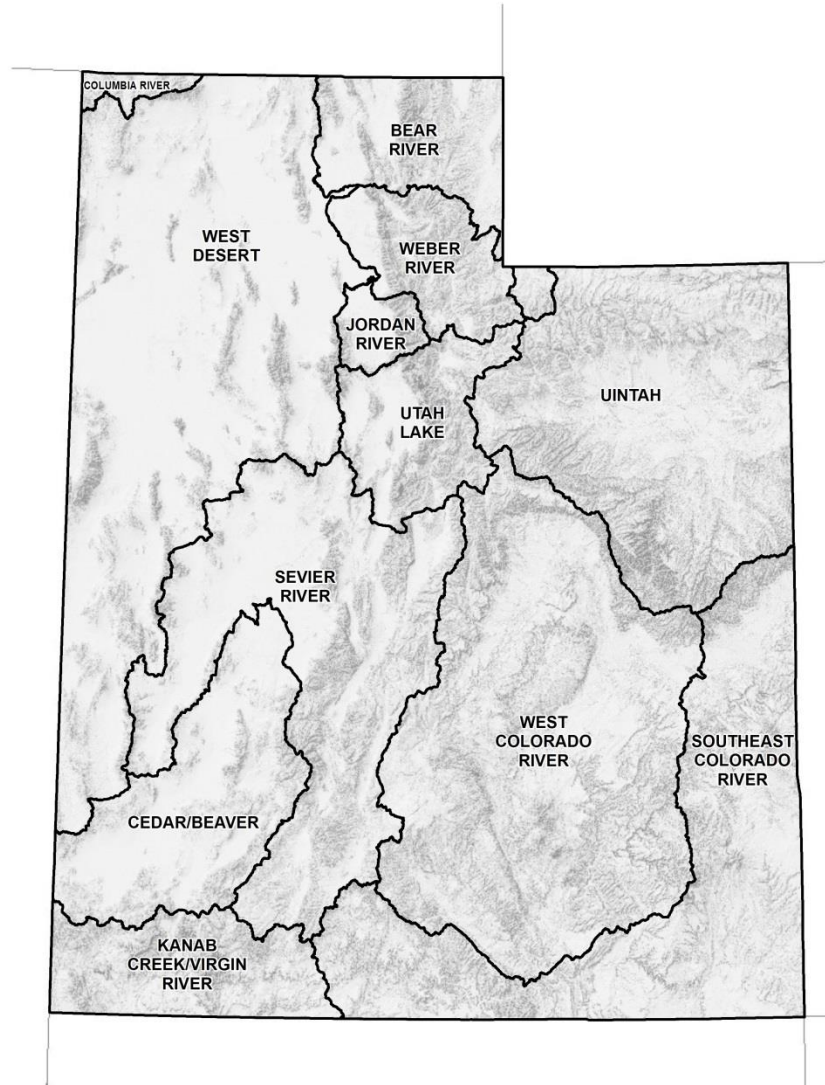
- M&I Water Demand Model
- River Basin Models
- Cloud Seeding
- Water Budget
- Water Conservation

Utah State Water Plan

- 1990
- 2001
- 2015...2021
- Goal: every 5 yrs

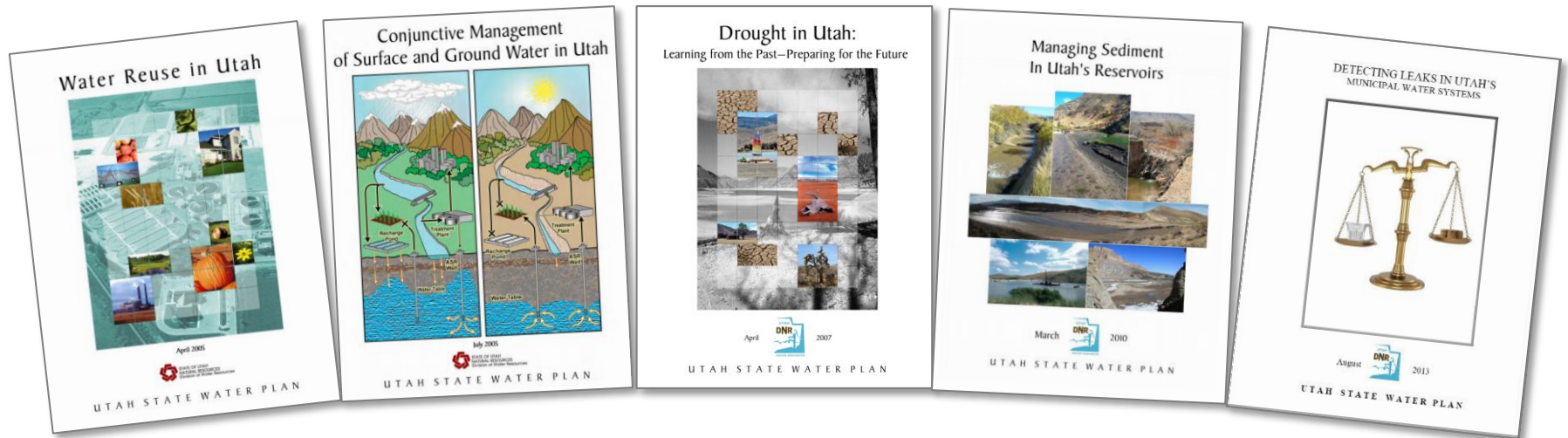


River Basin Planning Areas

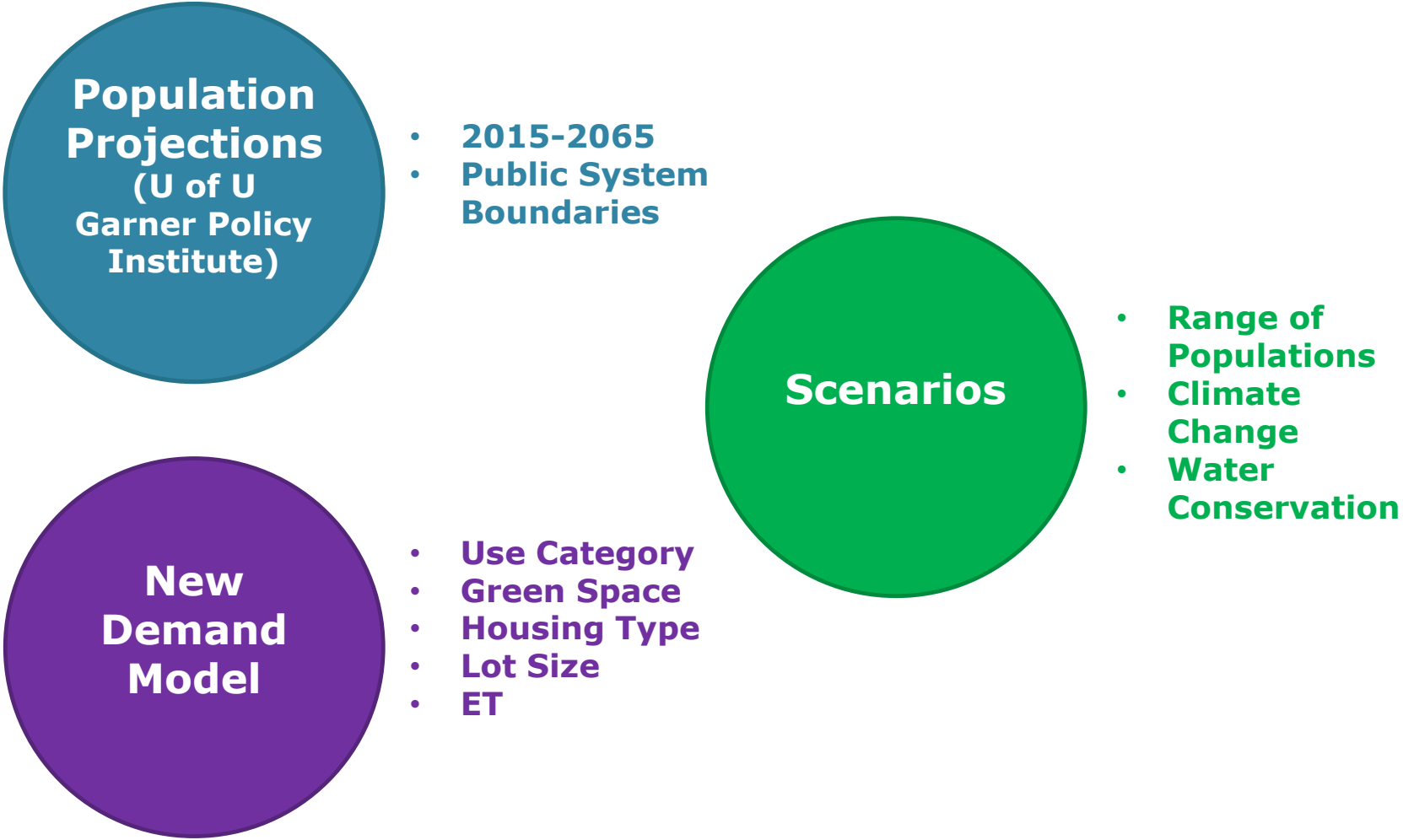


Special Studies

- Water Reuse
- Conj. Management
- Drought
- Sediment Management
- System Water Losses



M&I Water Demand Model



The diagram illustrates the components of the M&I Water Demand Model. It features three colored circles: a blue circle for Population Projections, a purple circle for the New Demand Model, and a green circle for Scenarios. Each circle is accompanied by a list of factors or data points. The blue circle lists '2015-2065' and 'Public System Boundaries'. The purple circle lists 'Use Category', 'Green Space', 'Housing Type', 'Lot Size', and 'ET'. The green circle lists 'Range of Populations', 'Climate Change', and 'Water Conservation'.

Population Projections (U of U Garner Policy Institute)

- 2015-2065
- Public System Boundaries

New Demand Model

- Use Category
- Green Space
- Housing Type
- Lot Size
- ET

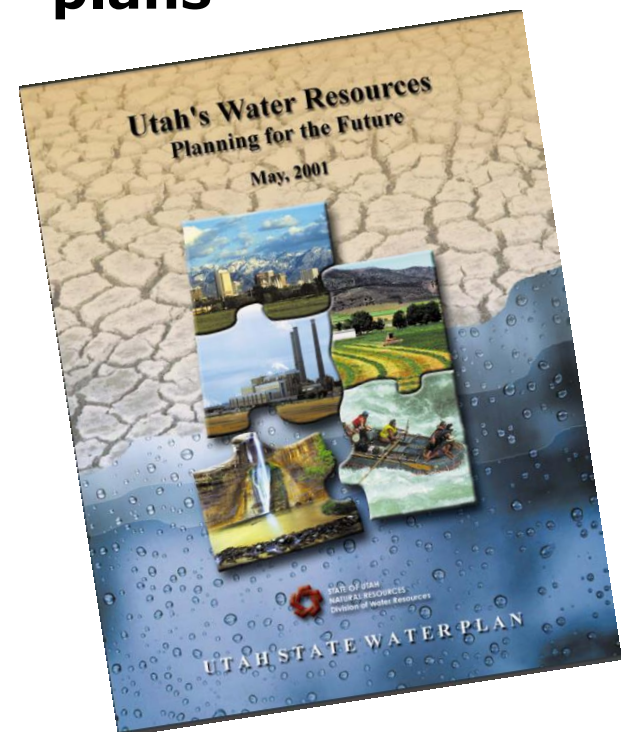
Scenarios

- Range of Populations
- Climate Change
- Water Conservation

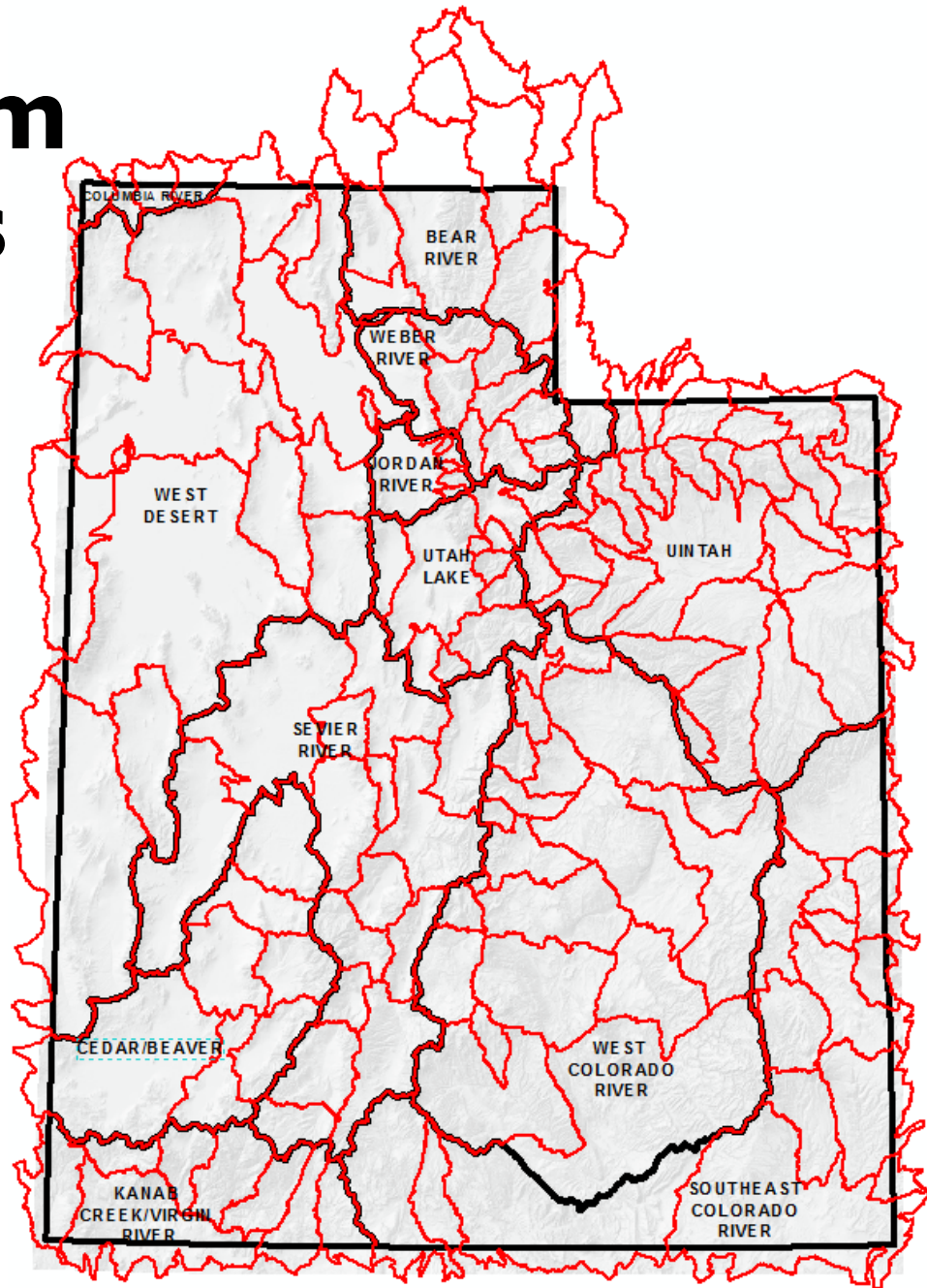
Utah's Water Budget

Category	Water Supply (acre-feet)
Total Precipitation	61,500,000
Used by vegetation and natural systems	53,789,000
<i>Basin Yield</i>	<i>7,711,000</i>
Compact Decreases	535,000
Ground Water Mining Increases & Other Inflow	135,000
<i>Supply</i>	<i>7,311,000</i>
GSL Evaporation	3,000,000
Other Natural Depletions	998,000
<i>Available Supply</i>	<i>3,313,000</i>
Agricultural Depletions	2,175,000
M&I Depletions	443,000
<i>Yield that flows out of state</i>	<i>695,000</i>

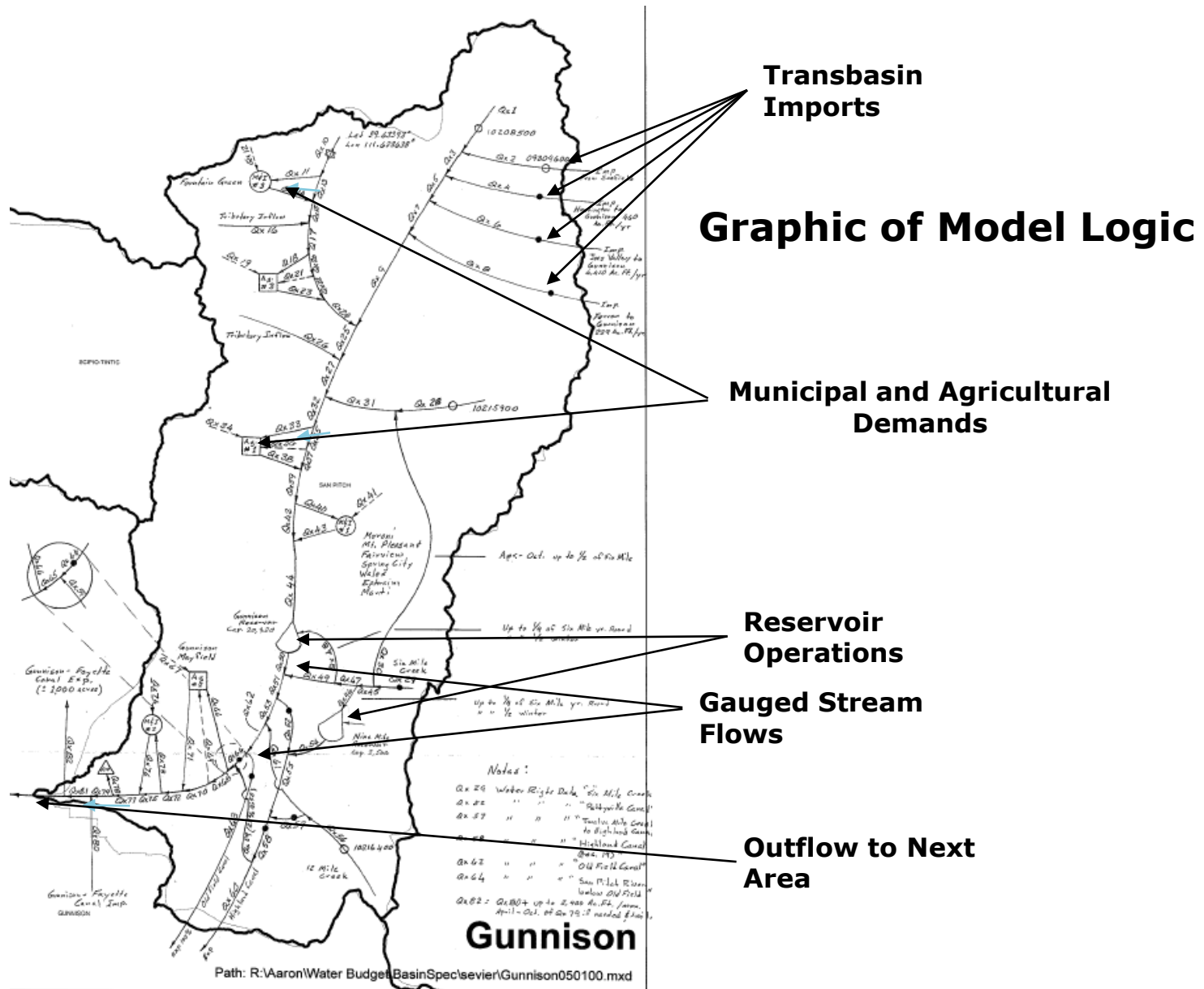
**Budget data
appears in Basin
and statewide
plans**



Comes From Summaries of Subarea Models

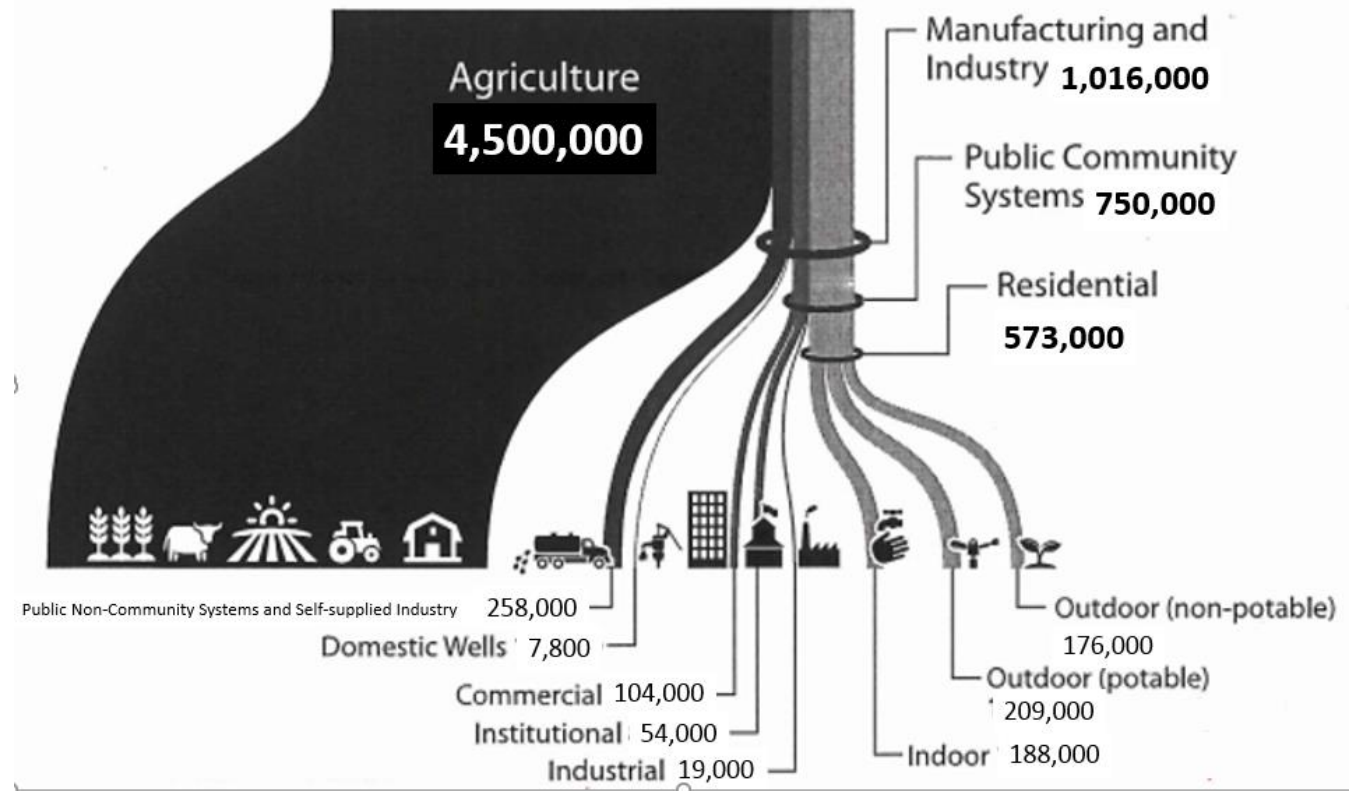


Water budget analysis



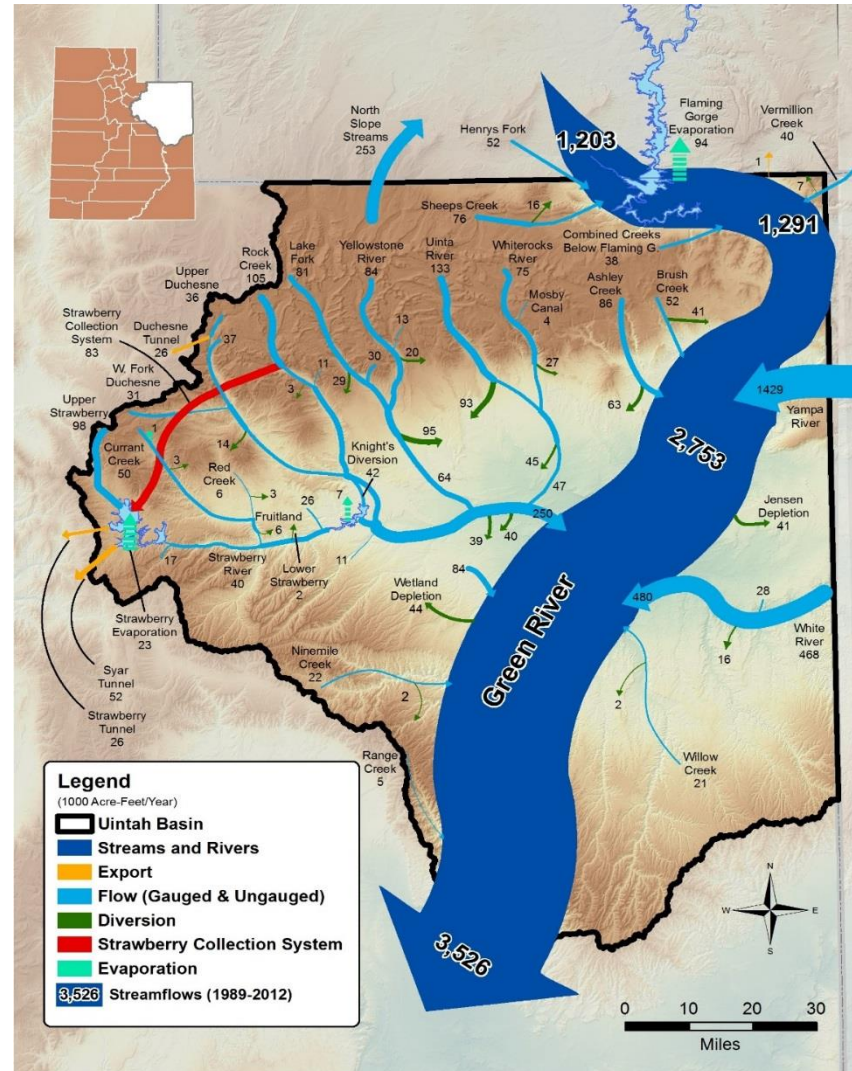
Water Data Uses

Answers questions by researchers seeking information.



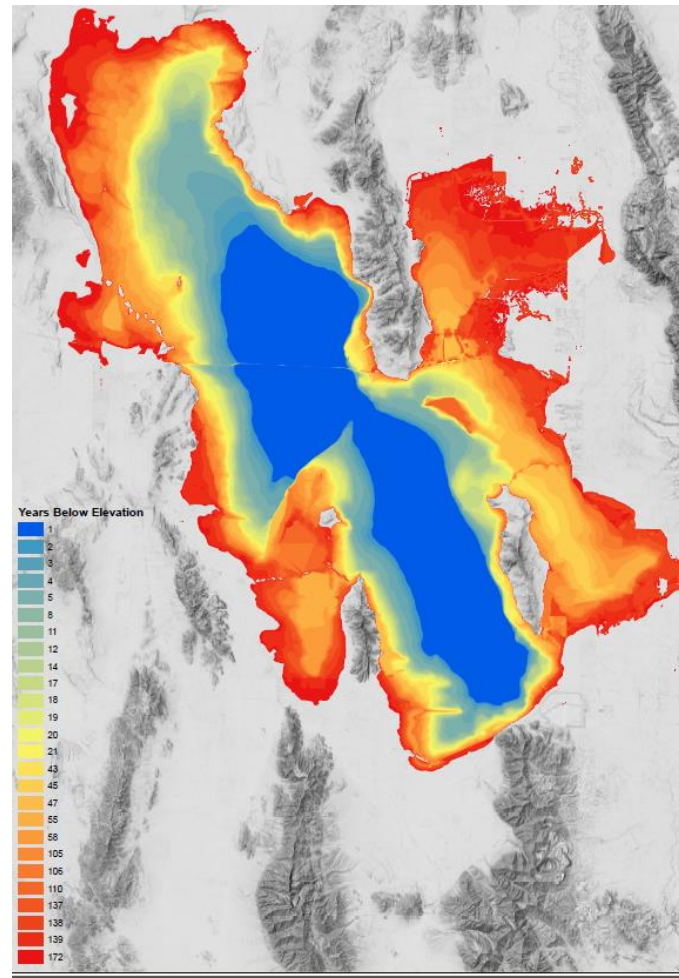
Water Data Uses

Flow Diagrams



Water Data Uses

Budget data is used as input to other models like our Great Salt Lake models. The depletion from current uses was used to create this graphic.



Water Data Uses

Data for interstate agreements and compacts.

Annual agricultural depletions for the Bear River Basin					
Subarea	Subarea Name	Total Depletion	Idaho	Utah	Wyoming
01-01-01	Bear Lake	47,619	40,413	7,206	
01-01-02	Soda Springs	5,158	5,158		
01-01-03	Oneida	20,292	20,292		
01-01-04	Cache Valley	210,669	79,308	131,362	
01-01-05	Malad	34,693	34,665	28	
01-01-06	Tremonton	148,627	4,4	148,623	
01-01-07	Brigham City	39,479		39,479	
01-02-01	Cokeville	15,837		1,437	14,400
01-02-02	Thomas Fork	8,541	6,918		1,623
01-03-01	Evanston	13,329		1,612	11,717
01-03-02	Randolph	57,426		57,426	
Total		601,672	186,758	387,173	27,740

Water Conservation Efforts



Utah
Water
Savers



H₂OATH

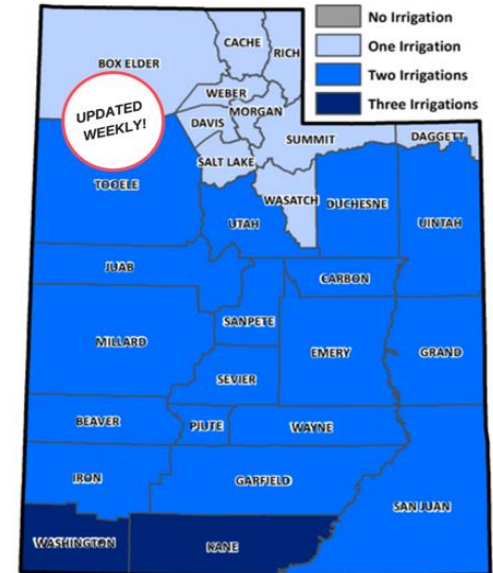
UTAH'S WATER-WISE PLEDGE

water.utah.gov/H2Oath

IMPRESSED OR CONCERNED? REPORT ON WATER USE.

Hall of Fame Or Shame

WATER.UTAH.GOV/FAMEORSHAME

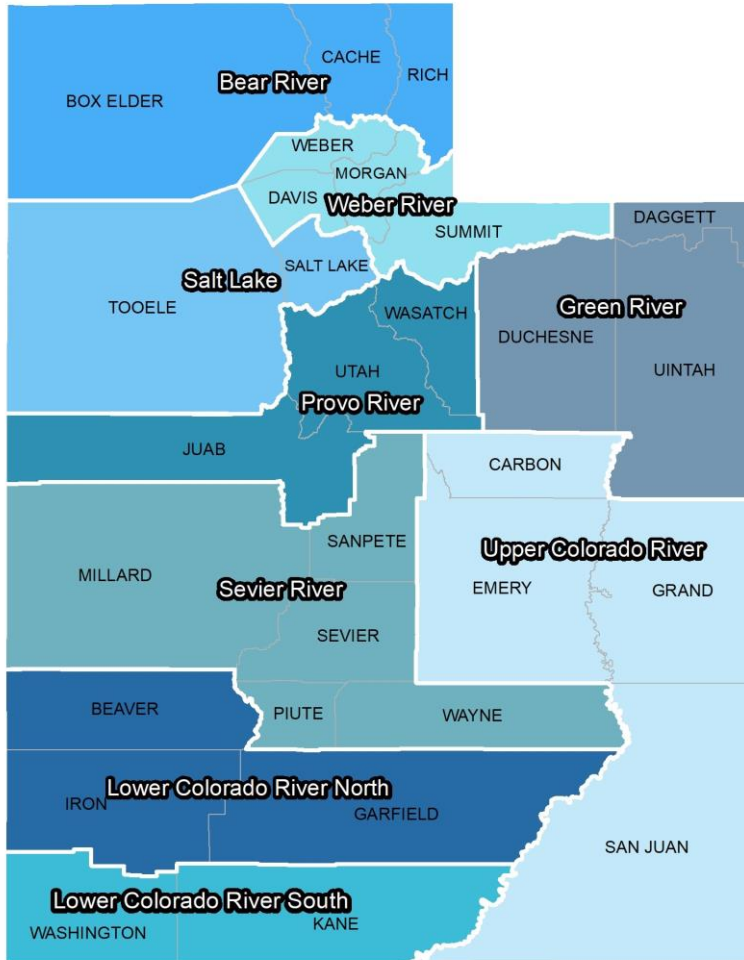


**Weekly Lawn
Watering Guide**

Social Media



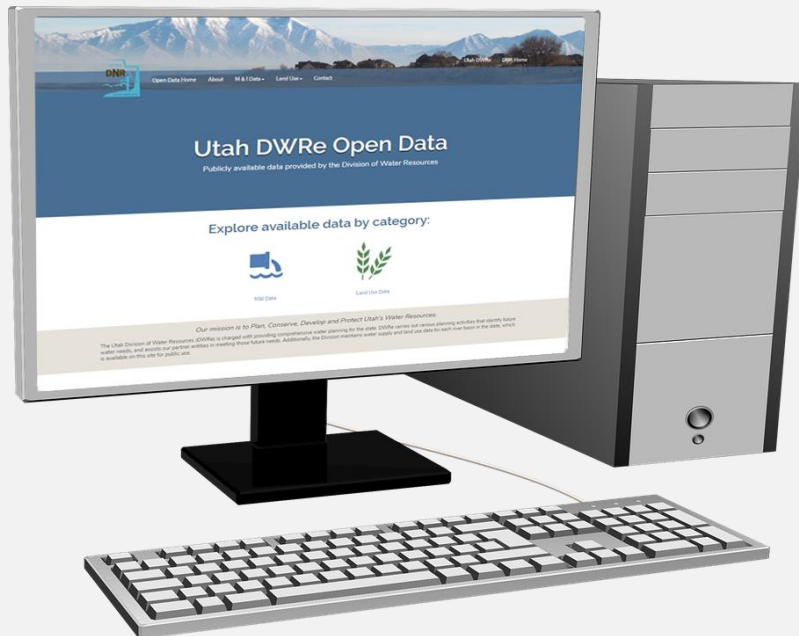
Regional Water Conservation Goals



Open Water Data Website

<http://water.utah.gov/opendata>

- **Interactive Web Mapping Applications**
(Visually explore the data and view summary statistics by river basin, county, retail supplier, and more)
- **Downloadable Data** (shapefiles, spreadsheets)



Current Offerings:



Water Related Land Use (WRLU) Data

- Historical Inventory Data
- 2017, 2018, 2019 Statewide WRLU Dataset



Municipal and Industrial Water Data

- 2015, 2016, 2017, 2018

Future Offerings:

- Water Budget (coming soon)

Western Area Data Exchange



WaDE

<http://wade.westernstateswater.org>

Water Resources

Water Use in the United States



Overview

Related Science

Publications

Data and Tools



Contact Info

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