

# ***Current Projects and Issues in Utah***

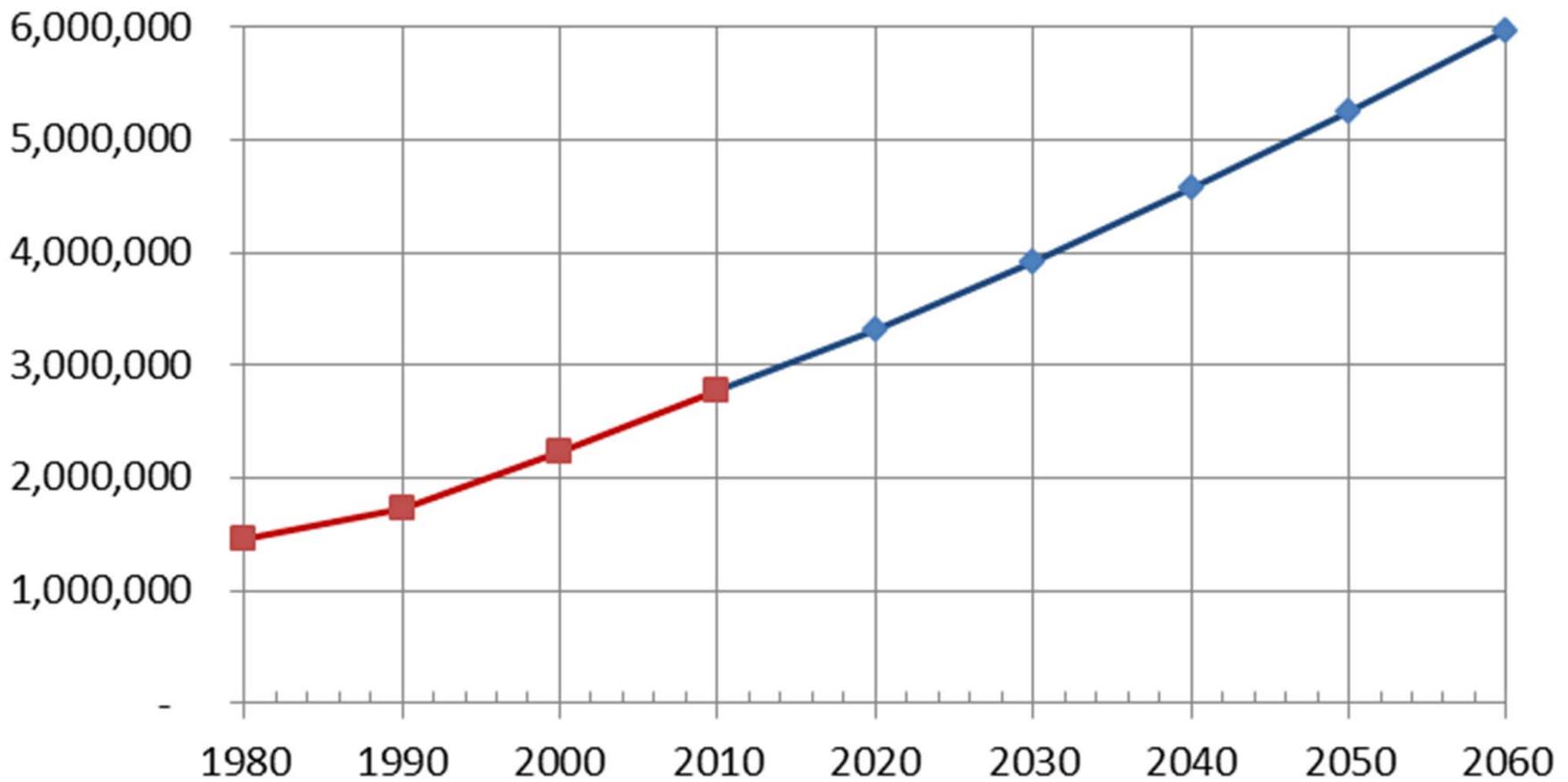
***AMWG 2/25/15***

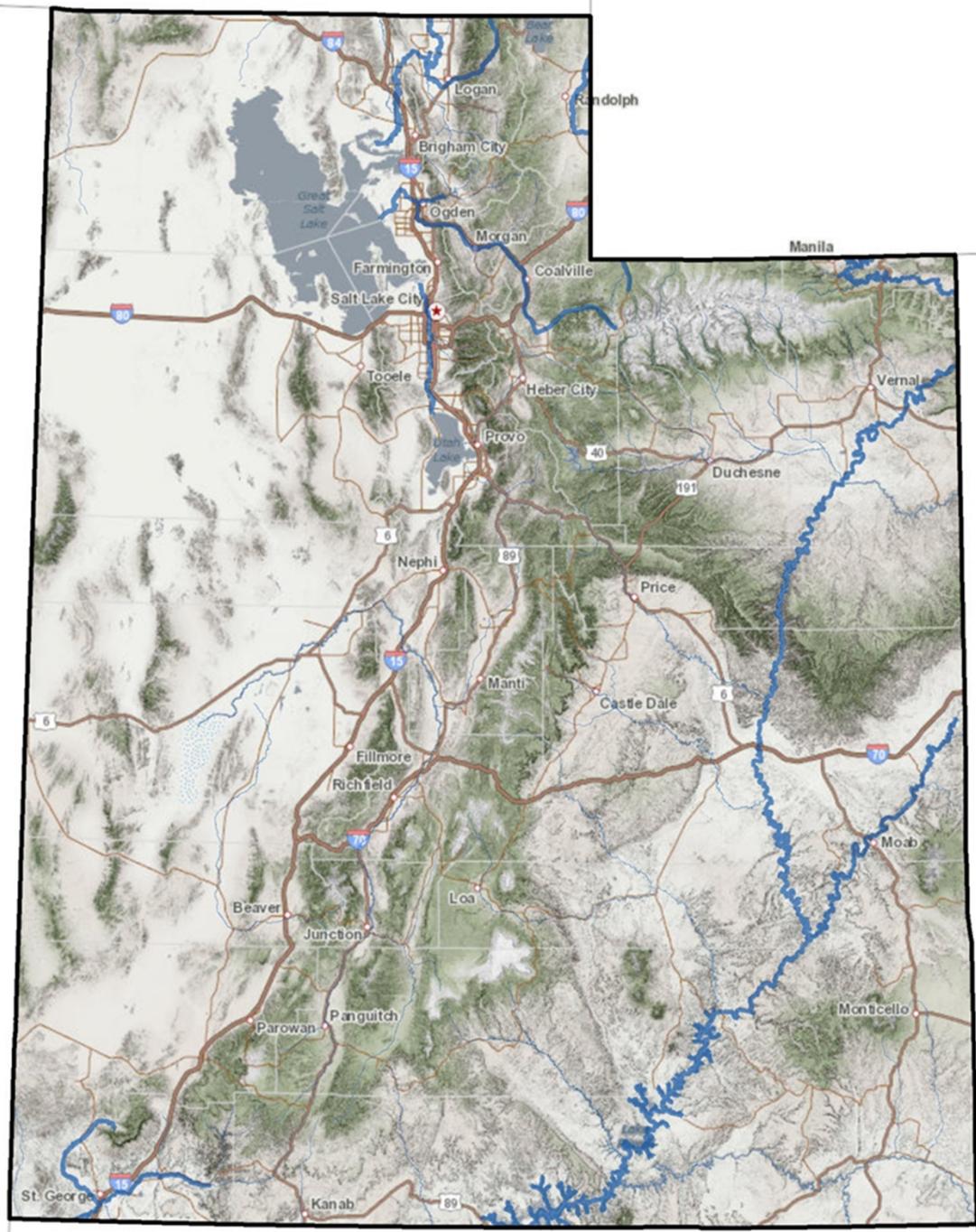
*Eric Millis, Director  
Utah Division of Water Resources*



# Population Growth is Driving Conservation Efforts

## Utah's Population & Projection





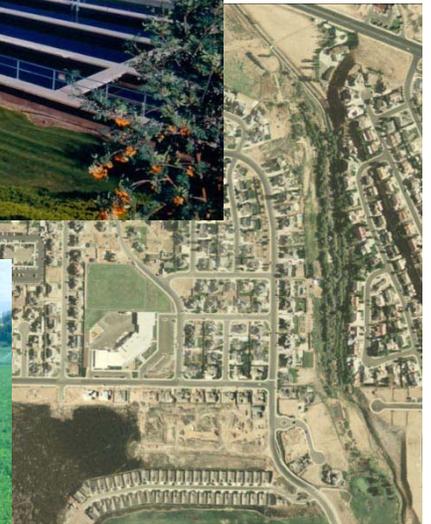
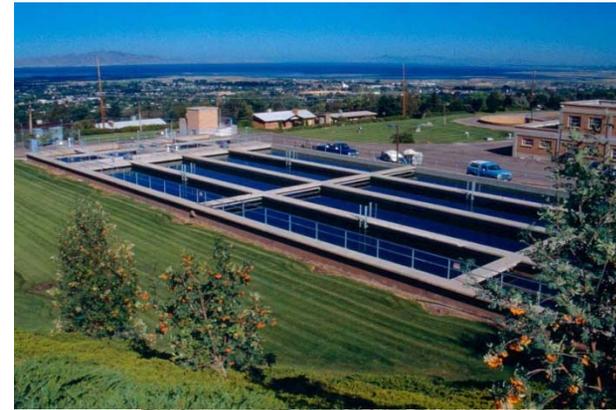
Nevada

Colorado



# Meeting Future Needs

- Water Conservation
- Water Use Conversions
- Water Development
- Innovation



## UTAH'S COLORADO RIVER ALLOCATION

1.369 MAF

Current Use

1.008 MAF

UNUSED ALLOCATION

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.361 MAF

Future Use

Navajo Nation

81 KAF

Ute Tribe Reserve Water (compact)

105 KAF

New Ag Uses

40 KAF

New M&I Uses

29 KAF

Lake Powell Pipeline

86 KAF

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Total

341 KAF

Balance

20 KAF





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# Utah's Use of its Remaining Colorado River Allocation



## Additional Water Needs

- Energy
- M&I
- Agriculture

Colorado



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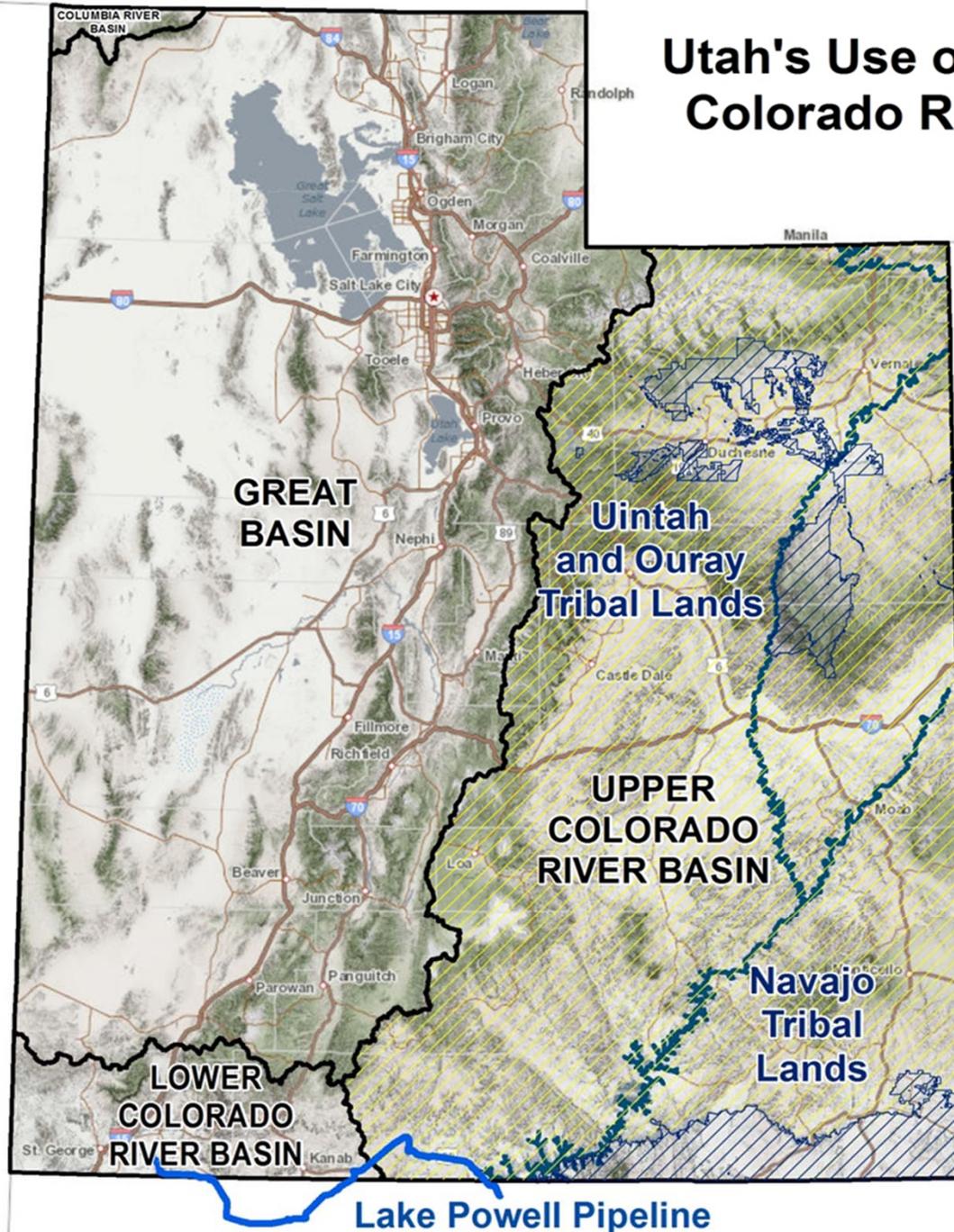
Balance

20 KAF

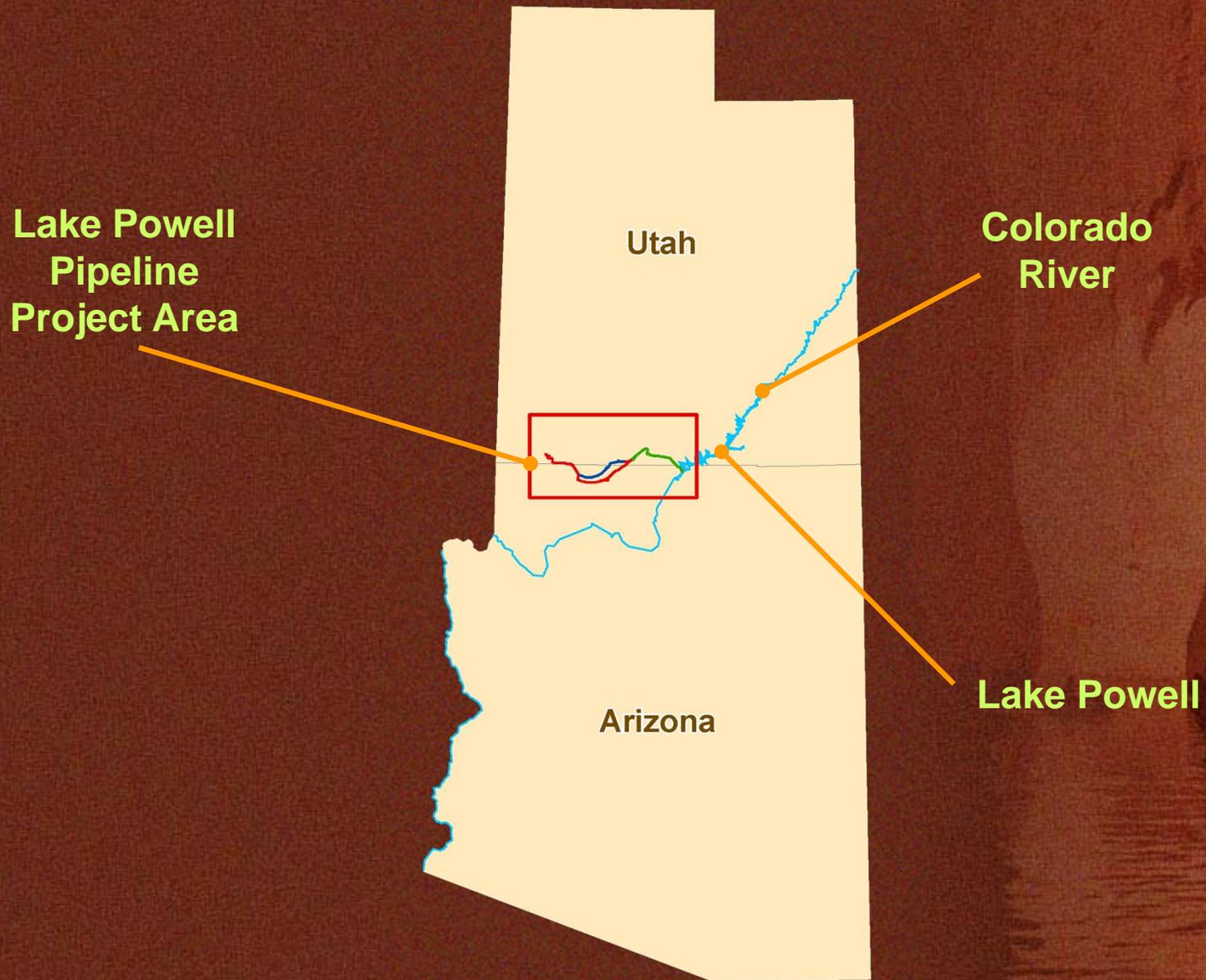




# Utah's Use of its Remaining Colorado River Allocation

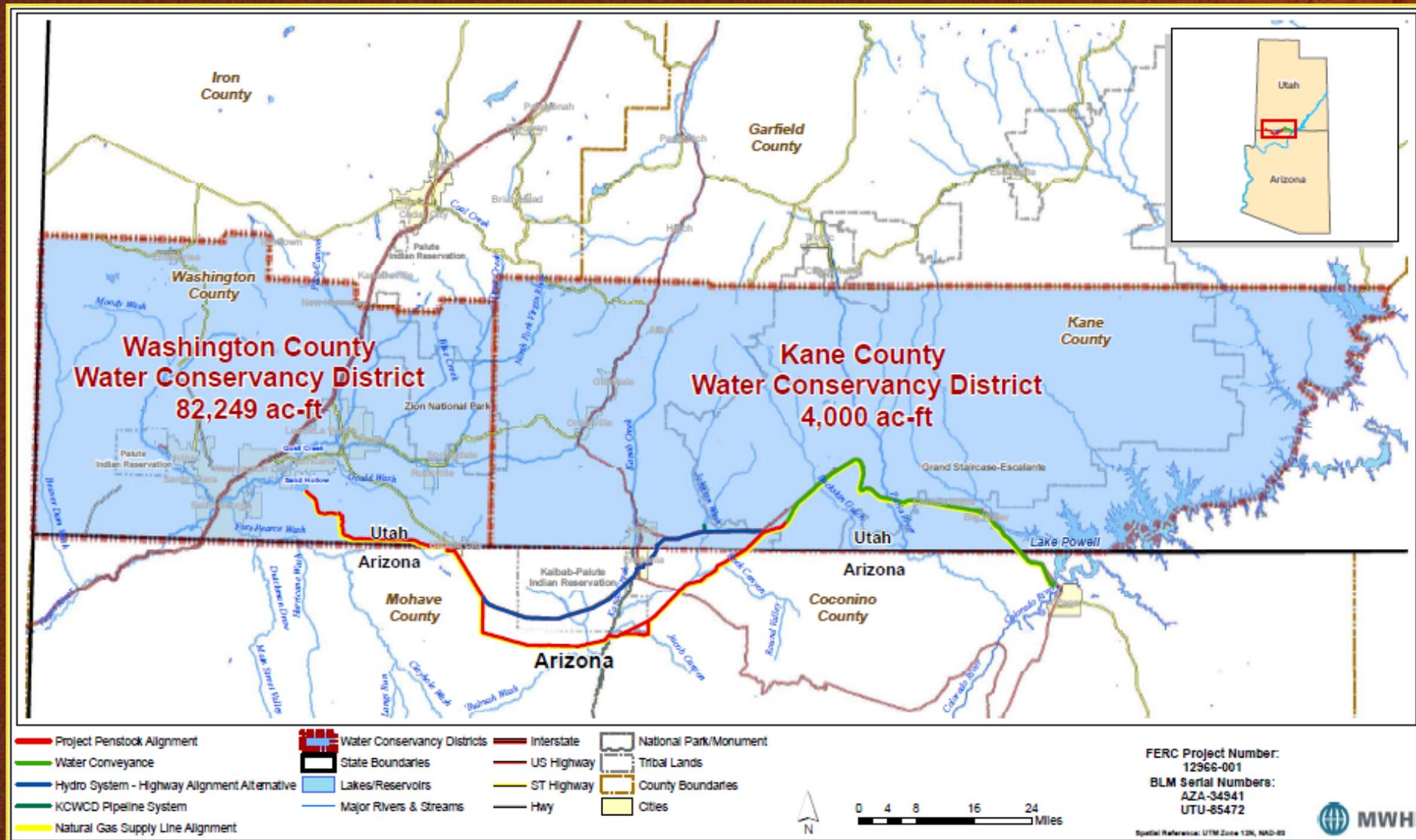


# Project Location



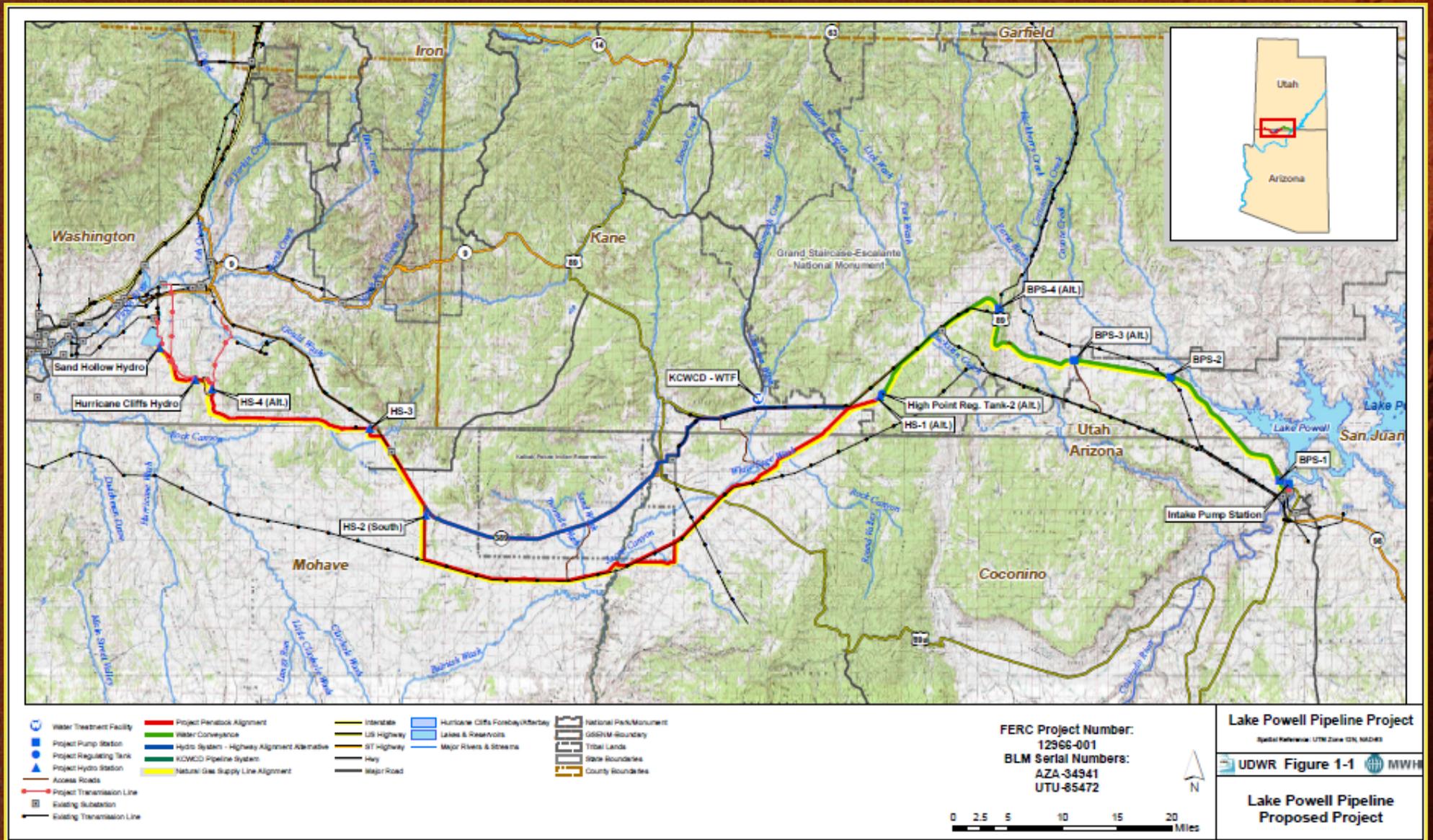
LAKE POWELL PIPELINE

# Project Sponsors



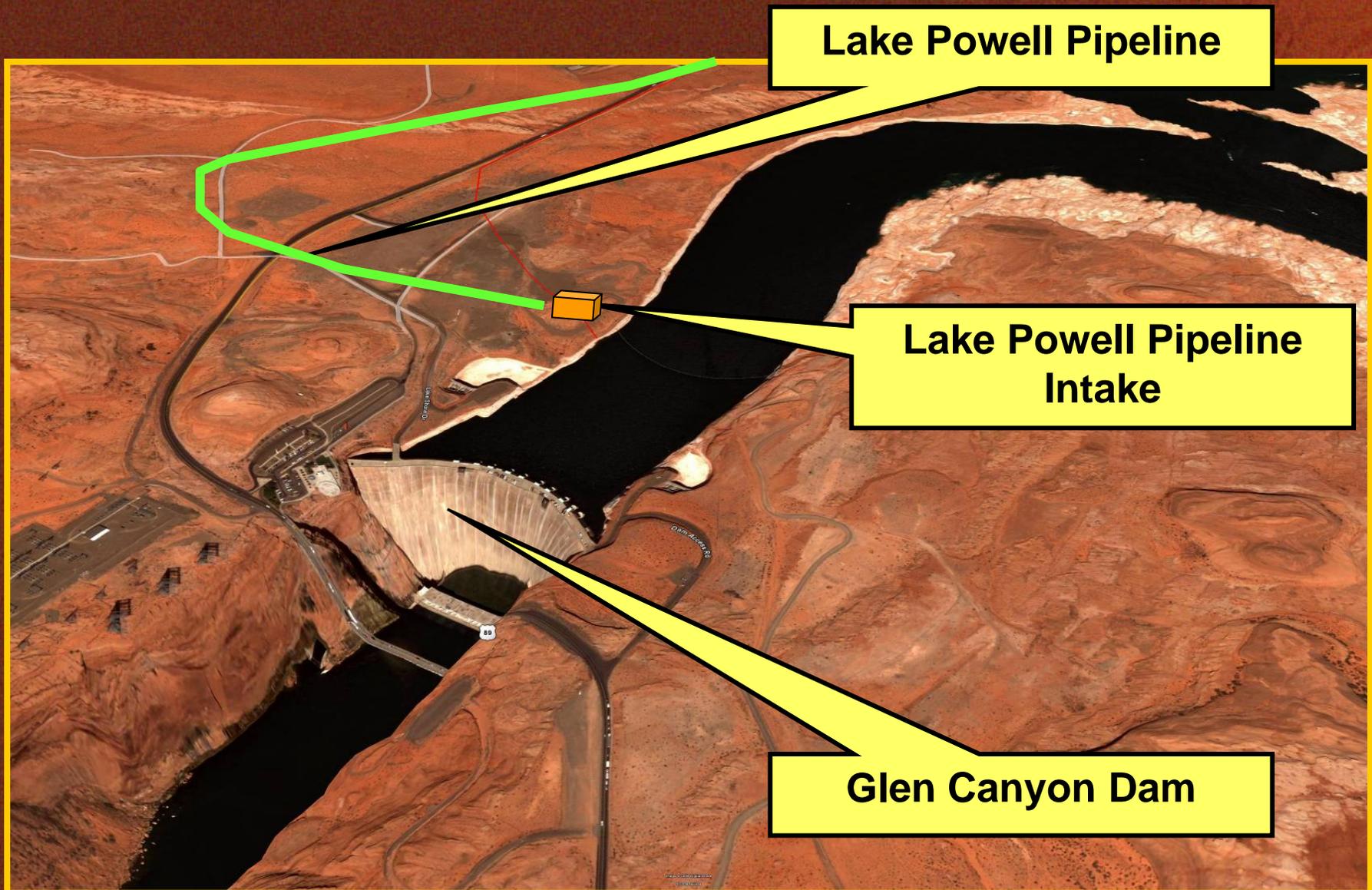
LAKE POWELL PIPELINE

# Proposed LPP Project



LAKE POWELL PIPELINE

# Glen Canyon Dam and Intake Site



LAKE POWELL PIPELINE

# Impacts on Lake Powell and the River

- **From BuRec modeling:**
  - About 1 foot off of Lake Powell at full use
  - Should have no effect on the river below the dam
- **From Division modeling:**
  - No change in return flows to the Virgin River in Washington County

# Environmental Review

- National Environmental Policy Act
- Lead agency
  - Federal Energy Regulatory Commission (FERC)
  - Scoping Document
  - Single Environmental Impact Statement
- Cooperating Agencies
  - DOI
  - BLM
  - BOR
  - NPS
  - Kaibab Band of Paiute Indians

# Other Authorizations Required

- Federal Land Policy and Management Act permits (NPS, BLM, BOR)
- CWA Section 404 dredge and fill permit - USACE
- CWA Section 401 water quality certification
- DOI Secretarial approval of withdrawal from Colorado River

# Consulted Entities

- Indian Tribes
- National Park Service
- Fish and Wildlife Service
- Bureau of Land Management
- Bureau of Reclamation
- State Water Quality Agencies
- Corps of Engineers
- AZ and Utah SHPOs
- Lake Powell Pipeline Coalition

# Environmental Studies

- Surface Water Resources
- Surface Water Quality
- Groundwater Resources
- Aquatic Resources
- Wetlands/Riparian Resources
- Threatened & Endangered Species
- Vegetation Resources
- Wildlife Resources
- Land Use/GIS
- Cultural Resources
- Paleontological Resources
- Recreational Resources
- Visual Resources
- Socioeconomic Resources
- Transportation
- Air Quality
- Noise

# Proposed Project Schedule

## Overall Project Completion

- Preliminary Engineering,  
Economic, & Environmental  
Studies 2007 - 2015
- FERC Licensing &  
BLM Permitting 2008- 2017
- Final Project Design 2017- 2019
- Project Construction 2019 - 2023
- Water Delivery &  
Power Generation 2023
- Full use 2045

# Thanks

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Utah Division of Water Resources  
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Salt Lake City, Utah 84114-6201  
Phone: (801) 538-7250  
E-mail: [ericmillis@utah.gov](mailto:ericmillis@utah.gov)



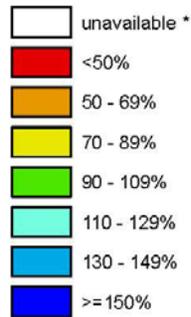
# If We Each Save a Little, We All Save A lot!



# Utah SNOTEL Current Snow Water Equivalent (SWE) % of Normal

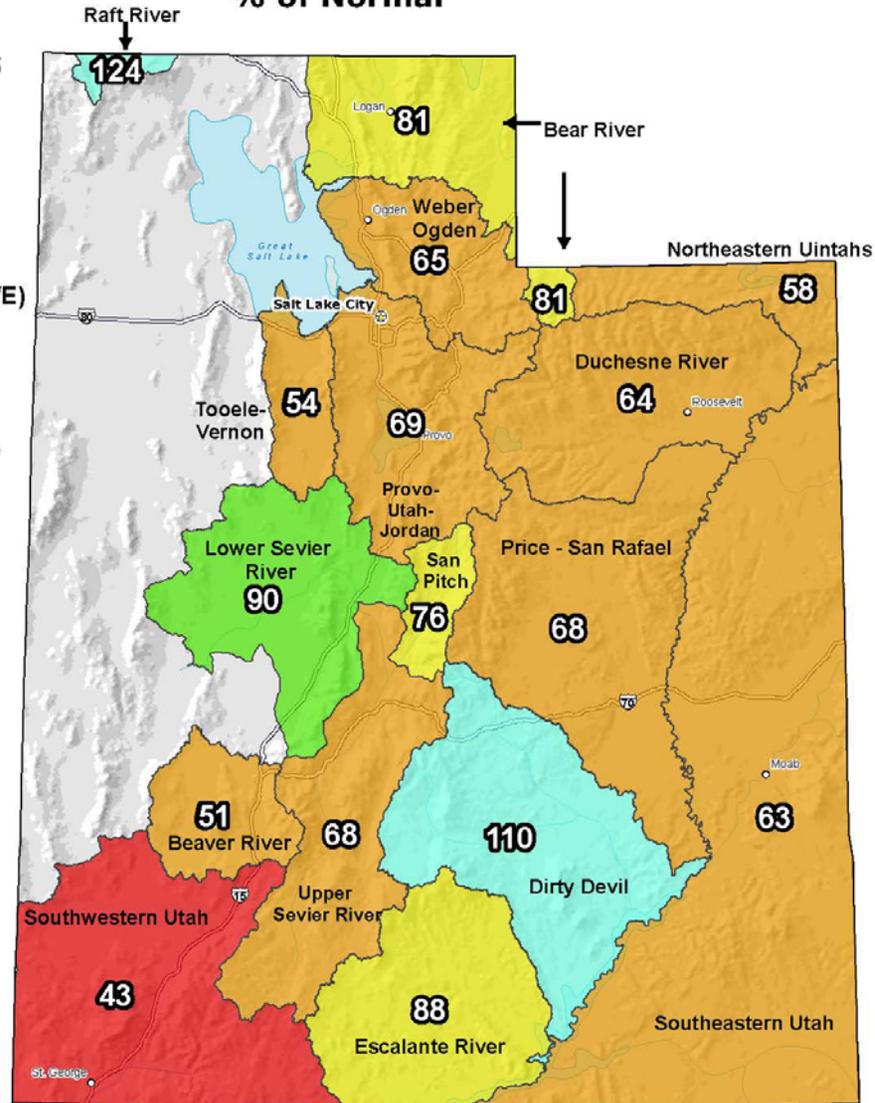
Feb 23, 2015

**Snow Water Equivalent (SWE)  
Basin-wide  
Percent of  
1981-2010  
Median**



\* Data unavailable at time of posting or measurement is not representative at this time of year

*Provisional Data  
Subject to Revision*



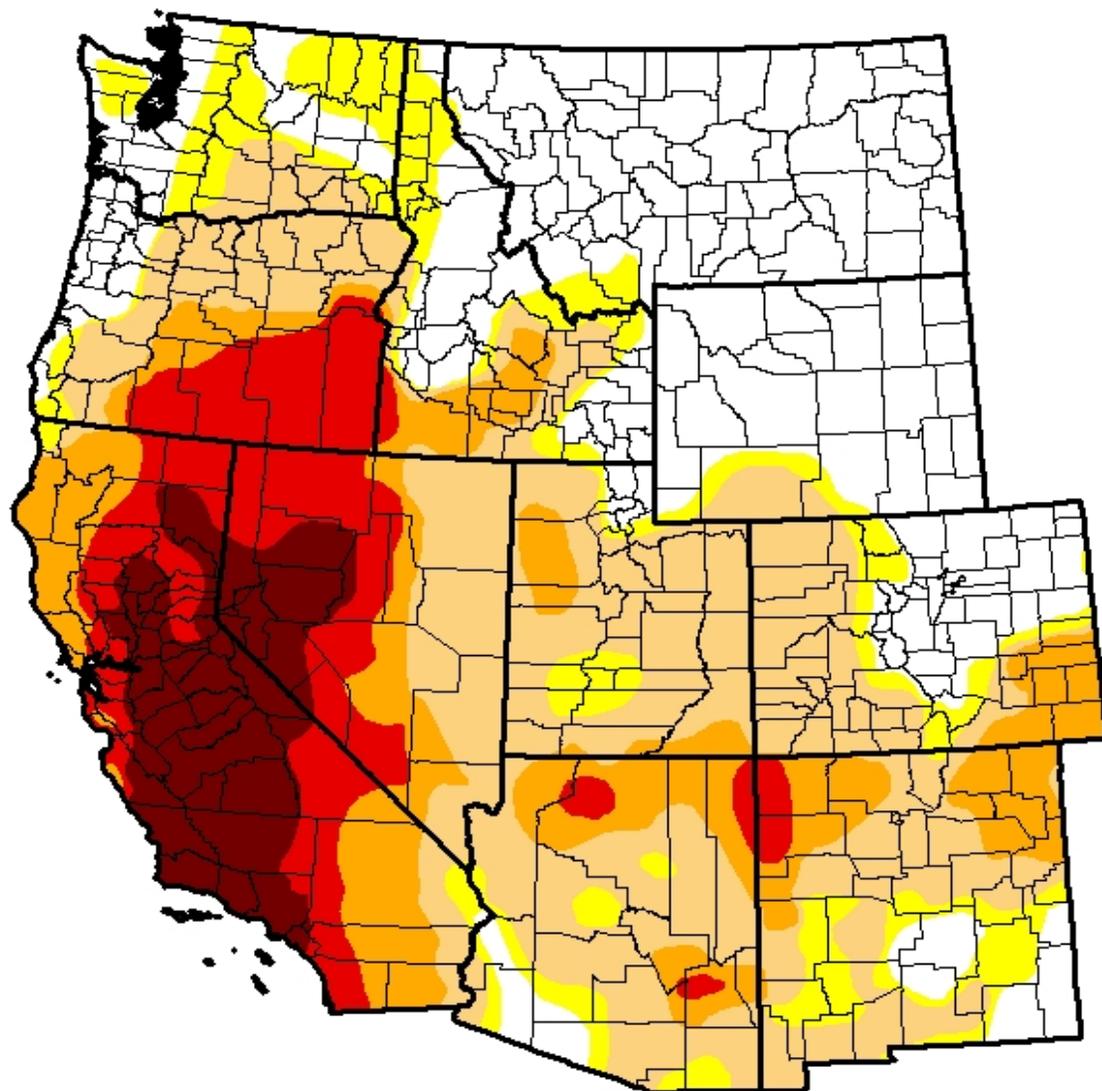
The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:  
USDA/NRCS National Water and Climate Center  
Portland, Oregon  
<http://www.wcc.nrcs.usda.gov>



# U.S. Drought Monitor West

**February 17, 2015**  
(Released Thursday, Feb. 19, 2015)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	31.20	68.80	58.53	30.61	17.23	7.21
<b>Last Week</b> <i>2/10/2015</i>	30.41	69.59	52.65	30.63	17.10	6.96
<b>3 Months Ago</b> <i>11/18/2014</i>	34.66	65.34	54.99	33.88	18.75	8.45
<b>Start of Calendar Year</b> <i>12/30/2014</i>	34.76	65.24	54.48	33.50	18.68	5.40
<b>Start of Water Year</b> <i>9/30/2014</i>	31.48	68.52	55.57	35.65	19.95	8.90
<b>One Year Ago</b> <i>2/18/2014</i>	21.76	78.24	59.88	40.17	14.89	2.58

Intensity:



*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

**Author:**  
Richard Heim  
NCDC/NOAA



<http://droughtmonitor.unl.edu/>