

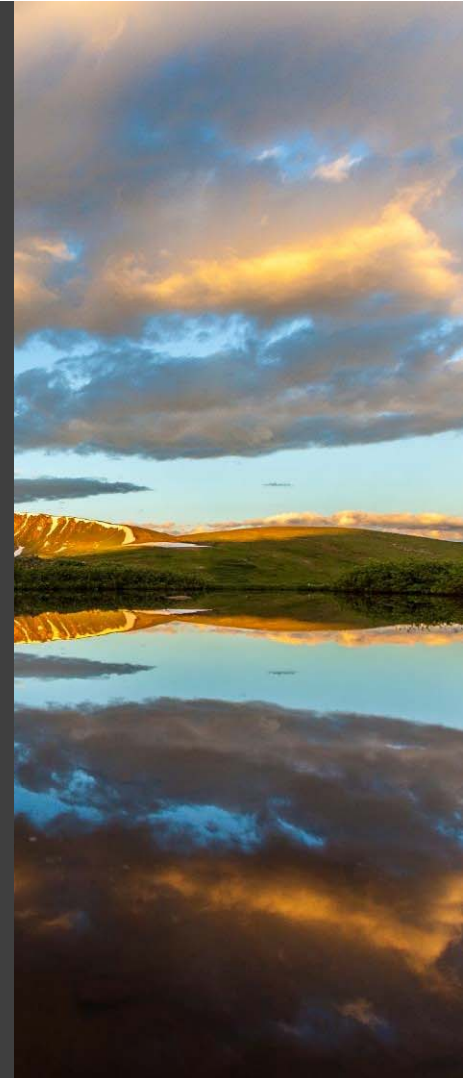
# Protecting West Slope water in times of uncertainty

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Jim Pokrandt  
Director of Community Affairs  
Colorado River District



**COLORADO RIVER DISTRICT**  
PROTECTING WESTERN COLORADO WATER SINCE 1937



# The Colorado River District was formed in 1937 to protect West Slope water users.



Archival news stories courtesy Colorado Historic Newspapers Collection



We work to protect  
West Slope water  
and keep your water  
on the West Slope





## Denver Needs Water From Western Slope

(By The Associated Press)

Denver, March 31—The Colorado River commission this afternoon heard its first testimony regarding plans for trans-mountain diversion of the waters of the Colorado river. W. F. R. Mills, a member of the Denver board of water commissioners, told the commissioners diversions must be undertaken if the city of Denver is to obtain a supply of water for domestic consumption for its growing population.

Mr. Mills and other witnesses declared 250,000 acre feet of water should be diverted from the western slope of Colorado to Denver thru irrigation tunnels built at altitudes of approximately 10,000 feet in the Rocky mountains.

Diversion of this amount of water, Mr. Mills declared, would not injure the river in its descent into the lower basin states.

Answering a query from Frank C. Emmerson, commissioner of Wyoming, Mr. Mills declared any pact between the states should provide for trans-mountain diversion to guarantee Denver water for all time for domestic consumption. Other city engineering officials agreed with Mr. Mills.

It is further, deputy state engineer of Colorado, and opened the technical case of the State of Colorado with a statement, today declared the state is entitled to unrestricted use of the

## Take Western Slope Water Under Range

Plans for a \$2,250,000 transmountain water diversion project, to provide water for Golden, Arvada, Edgewater, the state rifle range and irrigation districts west of Denver, has been announced by a committee headed by A. D. Quintana.

The plan was originally made an expenditure of \$1,000,000 after investigation, the sum decided to more than double the capacity and the investment. A organization to be known as the Denver-Golden Metropolitan Water association is to be formed and it will seek funds from the construction finance corporation.

The plans call for a three tunnel under Jones peak, eight west of Empire, to divert water the Williams fork into either creek or Ralston creek. A two tunnel between South fork and middle fork also is included in the program.

## WATER DIVERSION MIGHT INJURE WESTERN SLOPE

Two large projects are being promoted to take water from the Western Slope through tunnels to irrigate lands on the eastern slope of Colorado.

Representatives were in Glen-

## EAST SLOPE WANTS COLO. RIVER WATER

Initial steps toward an agreement between Eastern and Western slope interests for transmountain diversion of water into northern Colorado from the Colorado river watershed were taken at a conference in Grand Junction last Friday.

Representatives were present from Weld, Larimer, Logan, Morgan and Sedgwick counties. The Western slope was represented by the protective association directors from the counties on the Colorado river watershed. Those directors are: Simon Smith, Mesa; B. F. Long, Eagle; Frank Delaney, Garfield; Milton R. Weich, Delta; C. J. Moynihan, Montrose; E. M. Nourse, Gunnison; W. B. Burkett, Ouray; C. G. Wag-

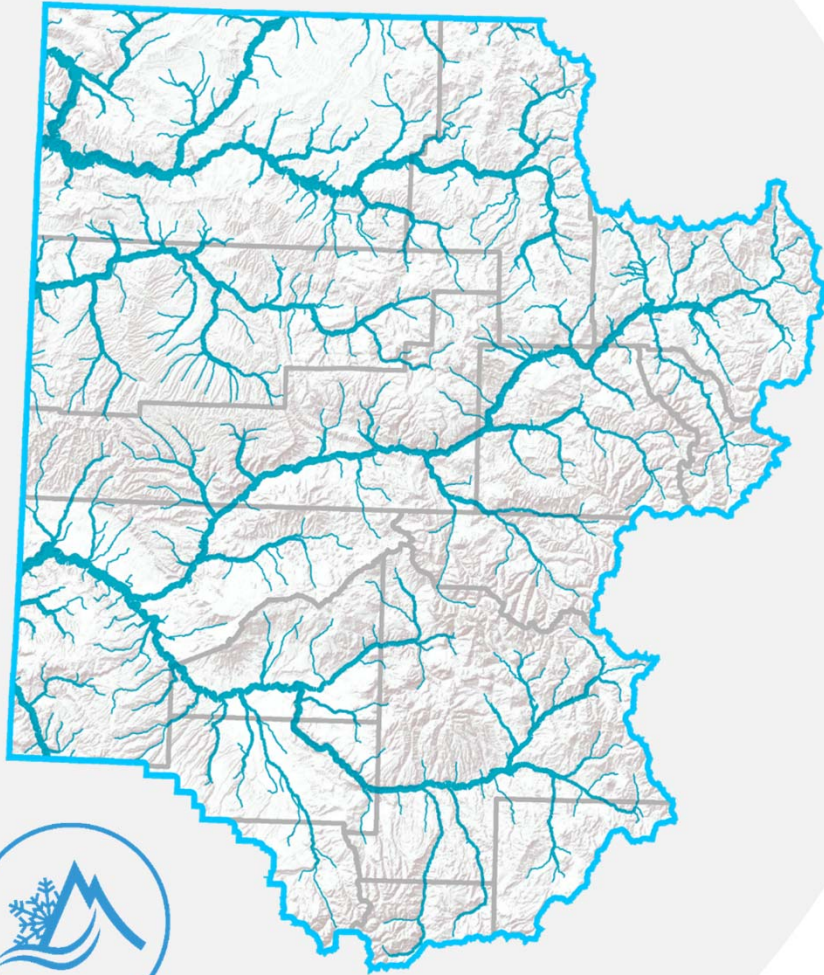
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Archival news stories courtesy Colorado Historic Newspapers Collection

The conference was an outgrowth





To lead in the  
**protection,  
conservation,  
use, and  
development**  
of the water resources of  
the Colorado River basin.

A person in a plaid shirt stands in a field, looking towards a bridge in the distance. The scene is hazy, suggesting a misty or early morning atmosphere.

Keeping water  
flowing to  
farms and  
ranches

A scenic view of a mountain range with a river flowing through a valley. The water is clear, reflecting the surrounding greenery and mountains.

Securing legal  
protections to  
keep water on  
the West Slope

A close-up shot of a fish swimming in clear, greenish water. The fish is positioned in the center, with its body and fins clearly visible.

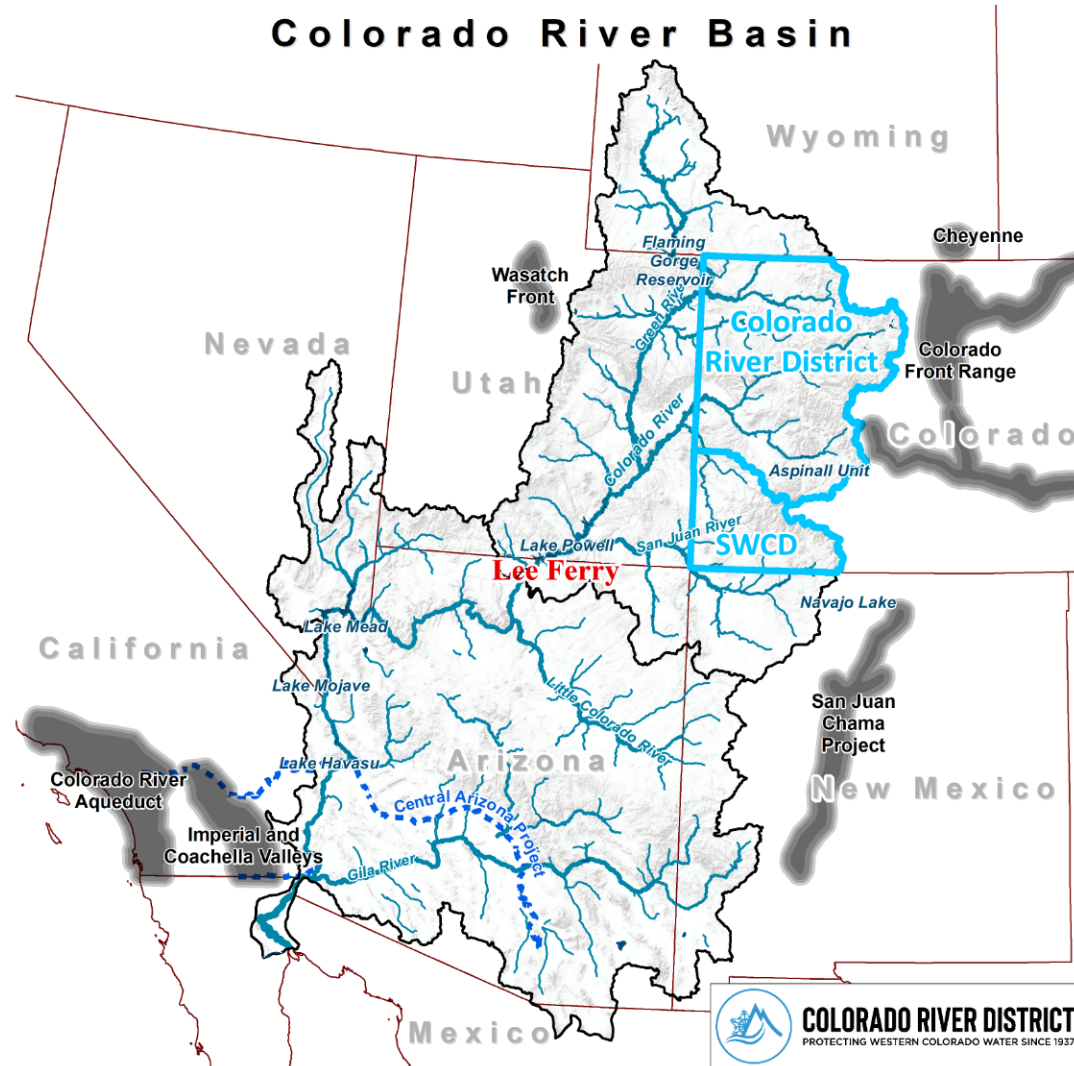
Maintaining  
healthy rivers

A person is shown from the side, washing their hands in a kitchen sink. Water is running from the faucet, and the person's hands are under the stream.

Ensuring  
adequate  
drinking water  
supplies



# Colorado River Basin

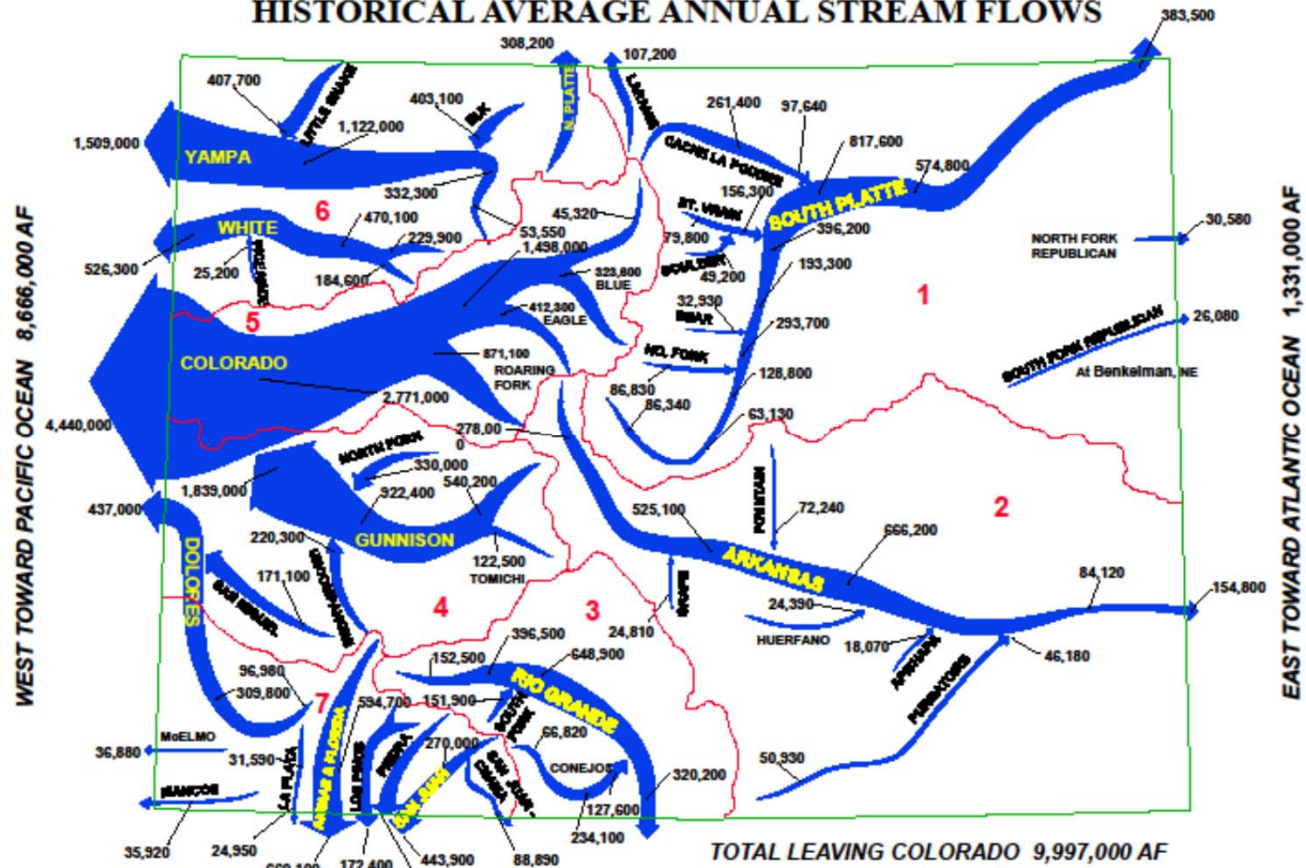


Annual lower basin overuse:  
1.1 to 1.3 million-acre feet





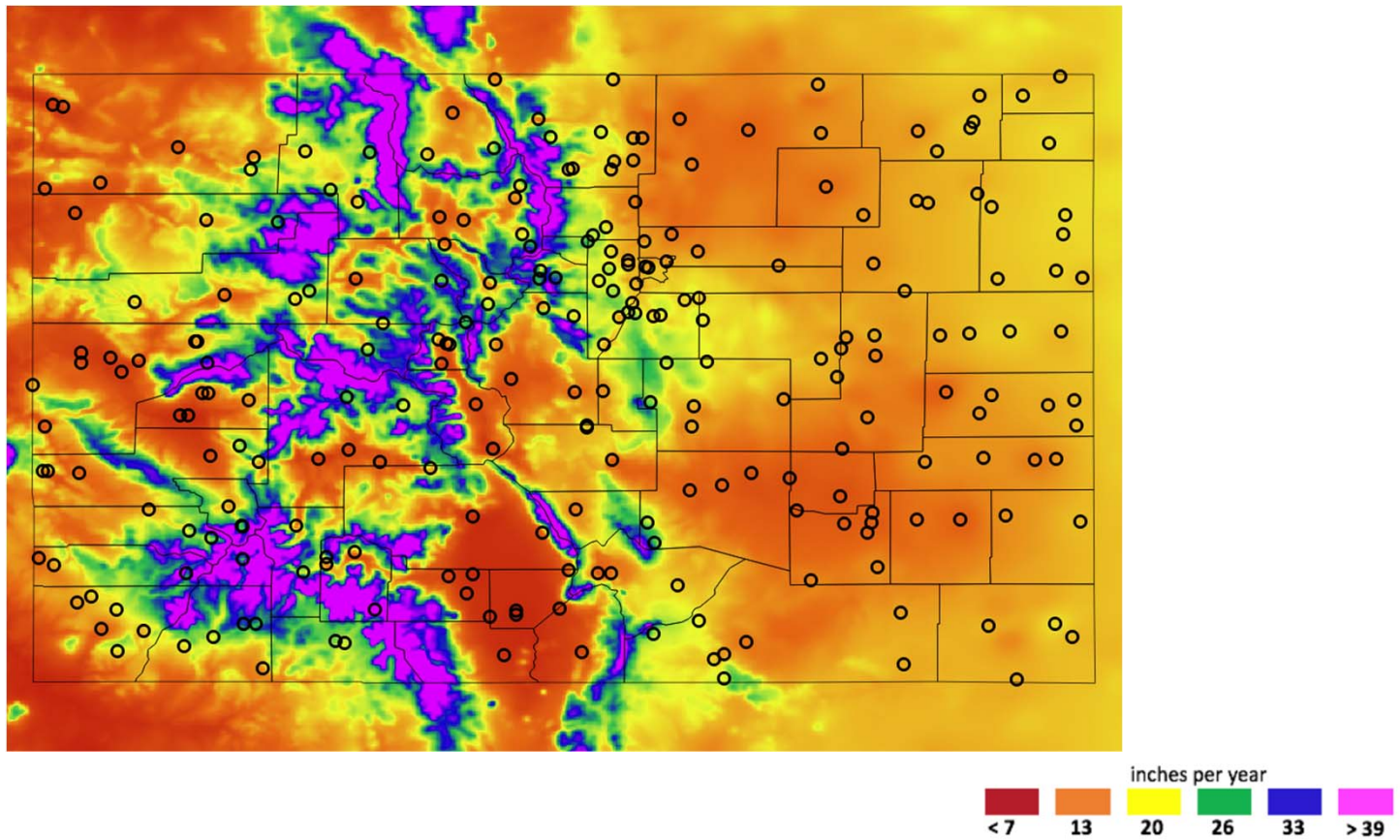
# COLORADO HISTORICAL AVERAGE ANNUAL STREAM FLOWS



[Revised 2011 - all values in acre feet (AF)]

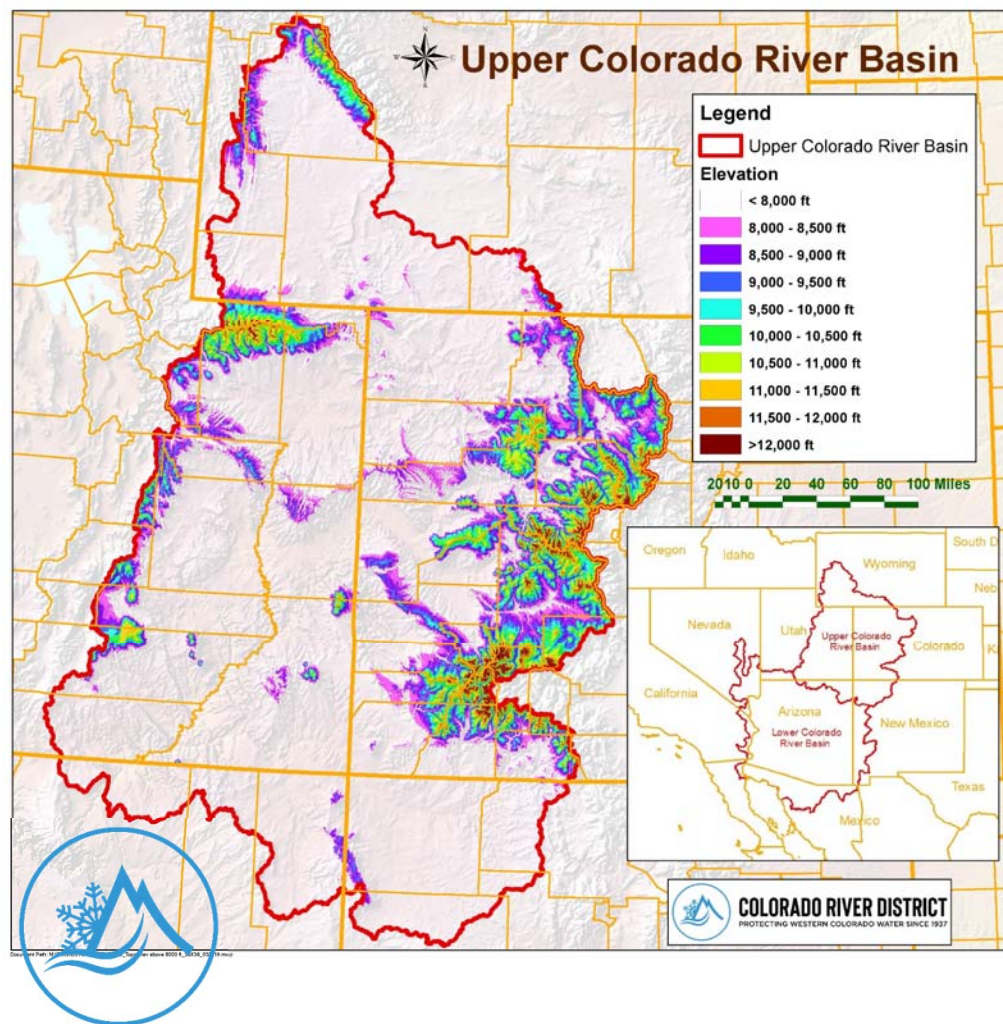


## Average annual average precipitation in Colorado



Graphic and data from the Colorado Climate Center





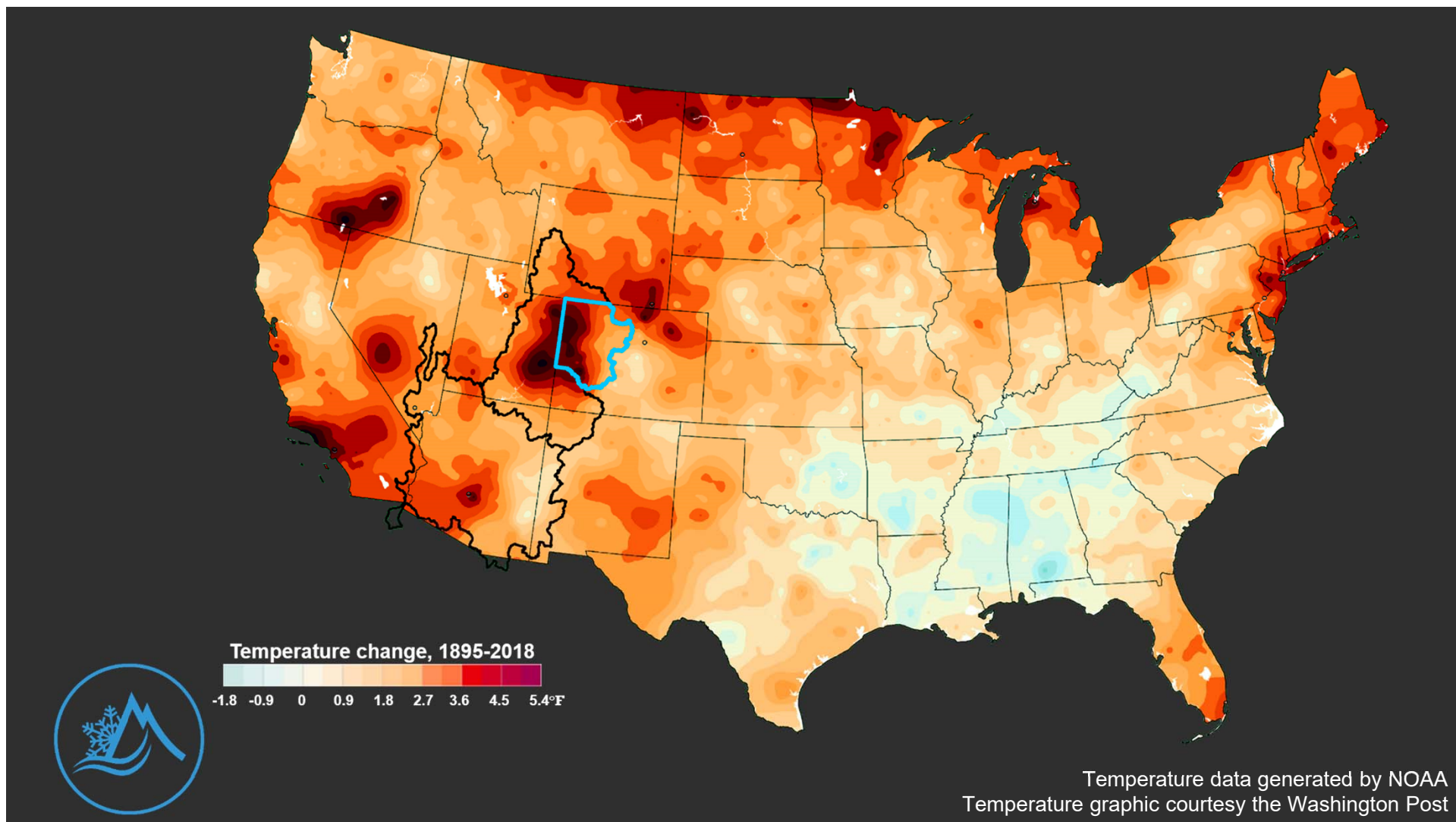
Areas and Elevations within UCRB			
Elevation Interval	Sq Miles	Acres	Percent
< 8,000 ft	79,582	50,932,713	75.3%
> 8,000 ft	26,071	16,685,139	24.7%
8,000 to 8,500 ft	6,323	4,046,495	6.0%
8,500 to 9,000 ft	4,862	3,111,906	4.6%
9,000 to 9,500 ft	3,944	2,524,432	3.7%
9,500 to 10,000 ft	3,147	2,013,920	3.0%
10,000 to 10,500 ft	2,594	1,660,224	2.5%
10,500 to 11,000 ft	2,035	1,302,654	1.9%
11,000 to 11,500 ft	1,432	916,293	1.4%
11,500 to 12,000 ft	664	425,253	0.6%
12,000 to 12,500 ft	777	497,016	0.7%
12,500 to 13,000 ft	228	145,724	0.2%
> 13,000 ft	64	41,222	0.1%
<b>TOTAL</b>	<b>105,653</b>	<b>67,617,852</b>	<b>100.0%</b>

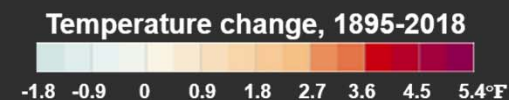
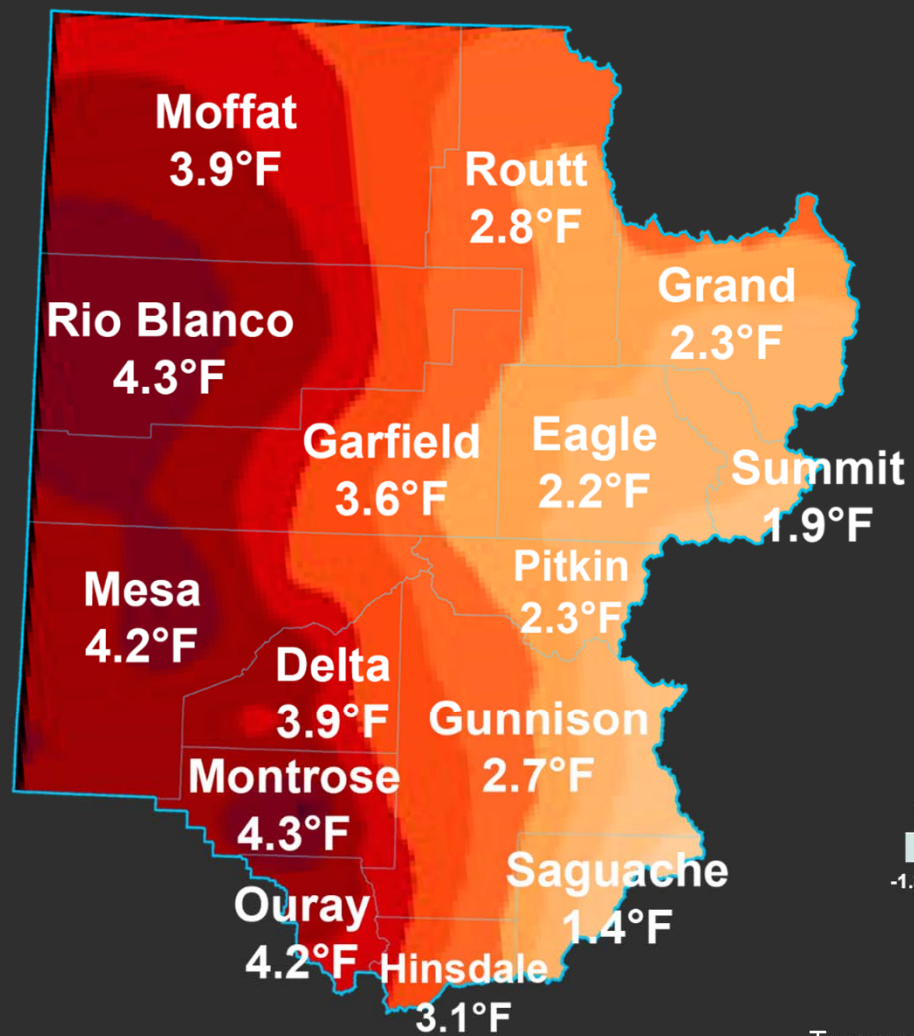


# Precipitation drives water supplies or “hydrology”

- Three parts of ‘water supply equation’ in River District
  1. Snow accumulation, melt, runoff (~80%)
  2. “Monsoonal” input (~10%)
  3. Groundwater input and baseflow (~10%)







Temperature data generated by NOAA  
Temperature graphic courtesy the Washington Post



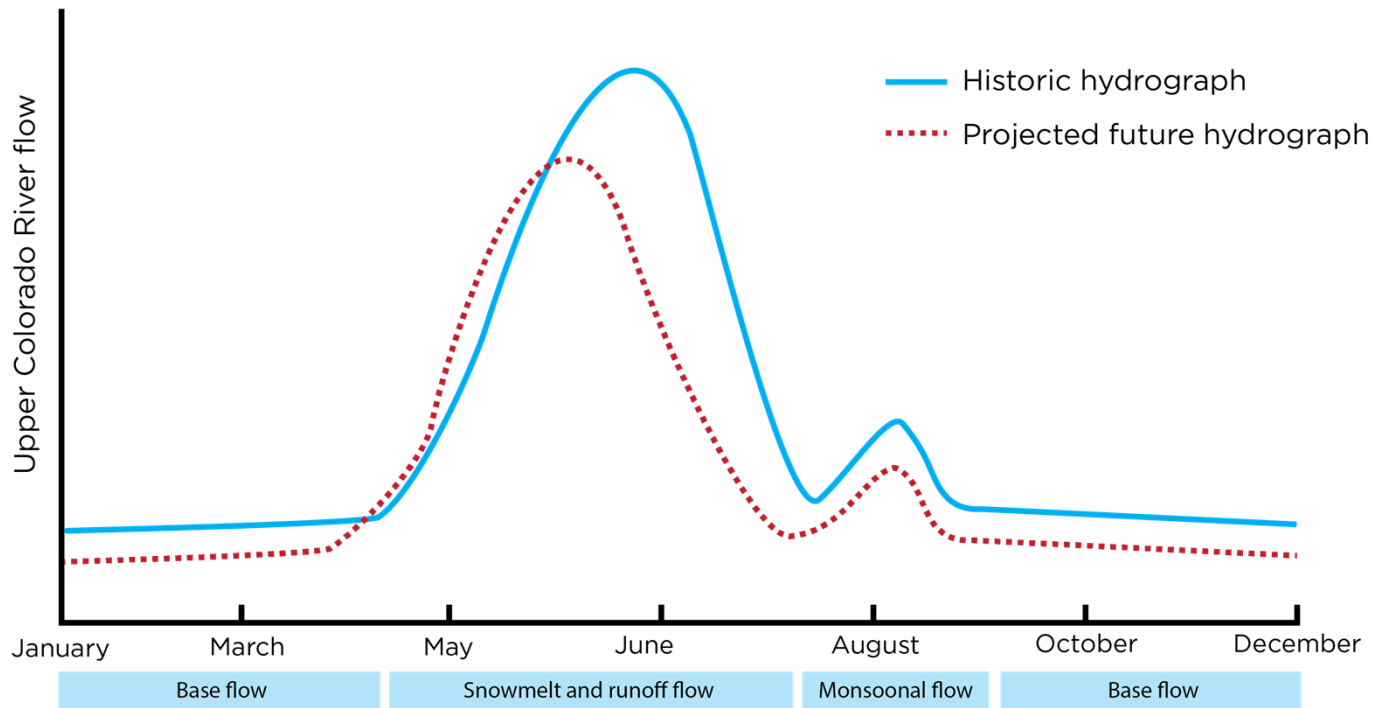
A photograph of a person fishing in a stream at sunset. The person is standing on a rock, holding a fishing rod. The stream is flowing over rocks, and the background is a dense forest. A vibrant rainbow is visible in the sky above the trees. The overall scene is serene and natural.

For every 1-degree Fahrenheit rise in temperature, streamflow is reduced between 3% to 5.2%.



Data: How Warming Drives Reductions in Streamflow Berghuijs et al. (2014), Barnhart et al. (2016), Deems et al. (2013)  
Colorado River flow dwindles as warming-driven loss of reflective snow energizes evaporation ( P. C. D. Milly, K. A. Dunne, Science 2020)

# Upper Colorado River conditions under projected warming



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Generalized conditions for illustrative purposes only.





- **More fall and spring precipitation falling as rain instead of snow**
- **More snowpack lost to sublimation**
- **Earlier snowmelt**
- **A longer growing season**



# Financial challenges



## **Key issues:**

- **Declining tax revenue from the energy industry**
- **Revenue ratcheting down due to the Taxpayer's Bill of Rights**
- **The Gallagher Amendment's reduction in assessment rates**
- **Expense trends: District has cut four full time employees and reduced expenses 15%**



On July 21, the Colorado River District's Board of Directors adopted a resolution to ask voters in November to support a property tax increase to 0.5 mills.



**The resolution included adoption of a Fiscal Implementation Plan that spells out how the added money would be invested across every county within the district. The District will not utilize the new revenue to create additional staff positions.**







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