



**RECLAMATION**  
*Managing Water in the West*

# **Water Management in the West**

**A Federal Perspective**

# Bureau of Reclamation Mission

“The mission of the Bureau of Reclamation is to manage, develop and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.”

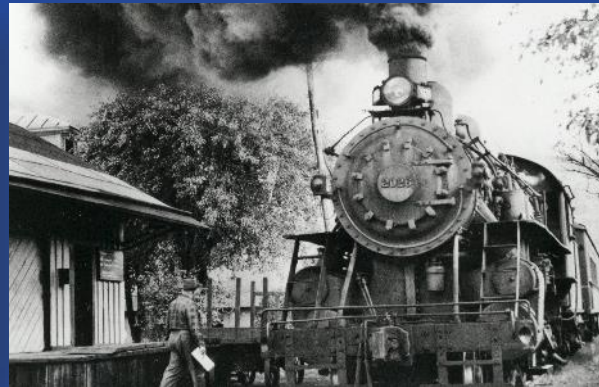
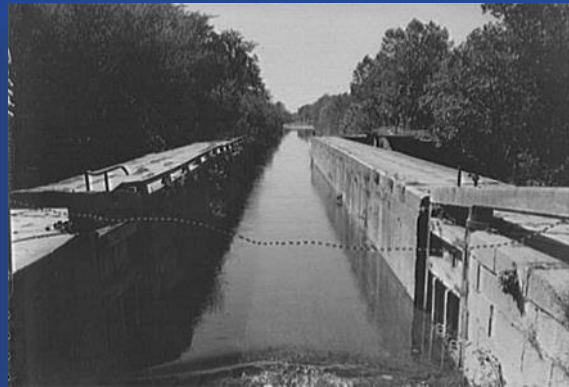




# Movement for “Reclamation”



- In the jargon of early western settlement, irrigation projects were known as “reclamation” projects.
- The concept was that irrigation would “reclaim” arid lands for human use.



# Early Reclamation Projects



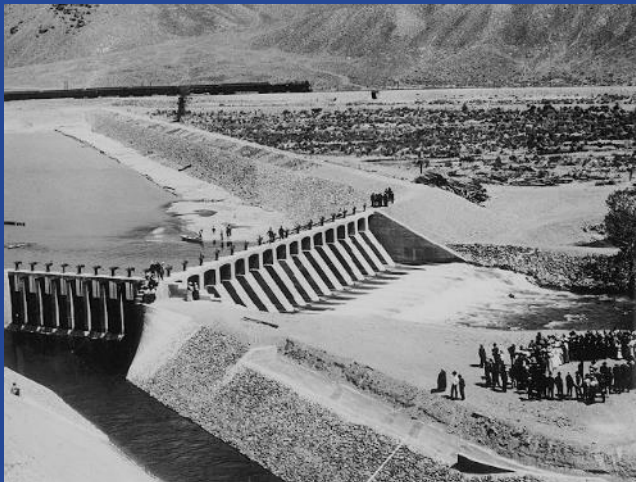
*Building Bartlett Dam (Salt River Project)*



*Gunnison Tunnel (Uncompahgre Project)*



*Hanover-Bluff Unit*



*Truckee River Diversion (Newlands Project)*



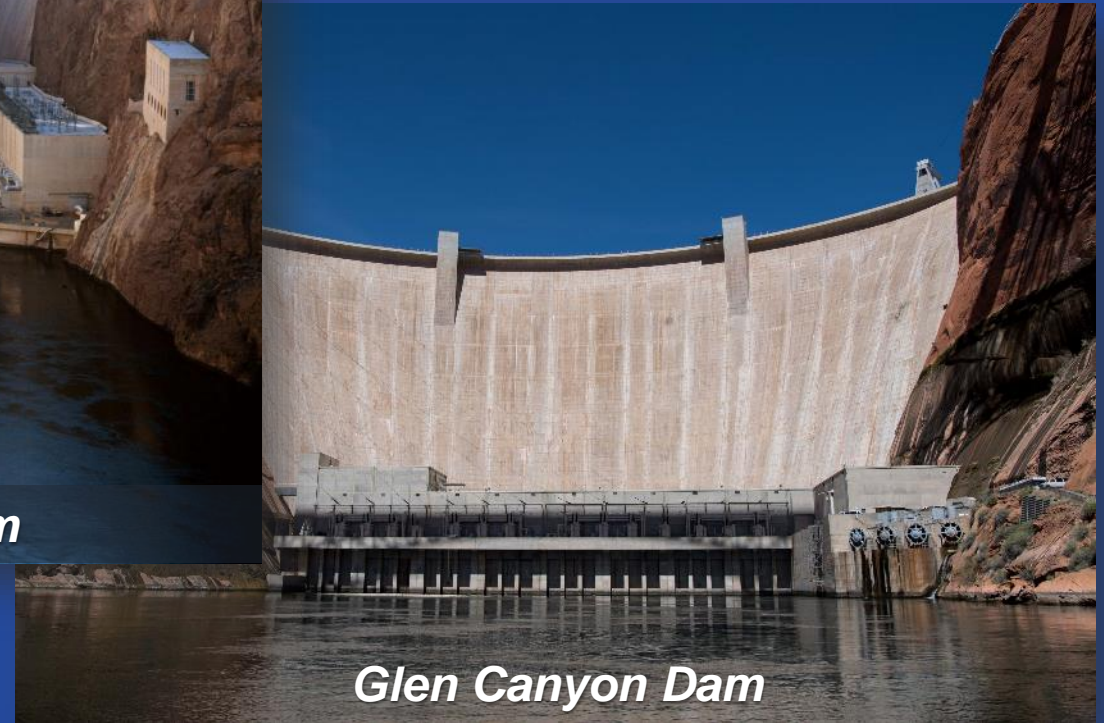
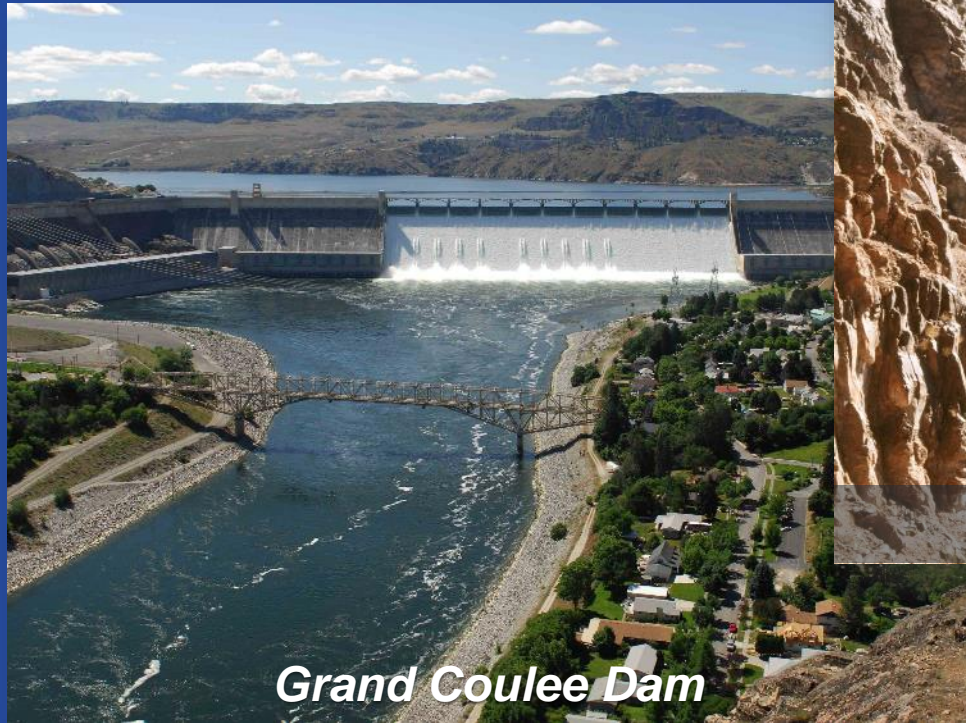
*Strawberry Valley Project – Highline Canal*



*Carlsbad Project*



# Depression Era & Post-World War II





# Maintaining Mission Amid Evolving Values



*Echo Park – Dinosaur National Monument*



*Colorado River Wetlands Near Yuma, Ariz.*



*Humpback Chub*



*Prehistoric Granaries Overlooking Colorado River*



# Maintaining Mission Amid Evolving Values

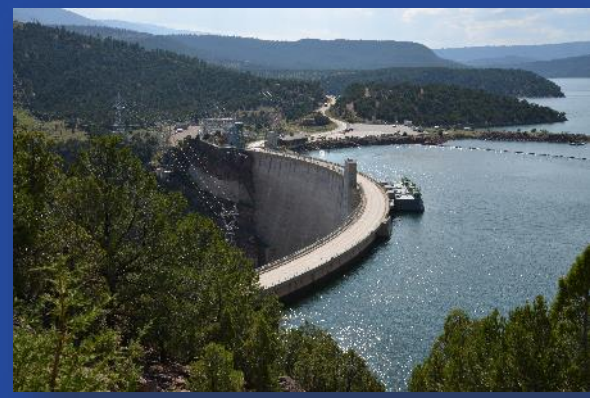






# Case Study: Colorado River System

## Flaming Gorge Dam







# Case Study: Colorado River System

## Glen Canyon Dam Adaptive Management Program





# Case Study: Colorado River System

## Glen Canyon Dam Adaptive Management Program

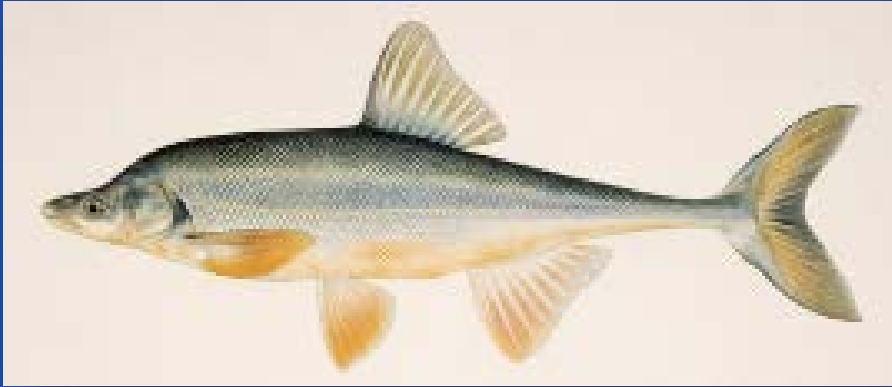




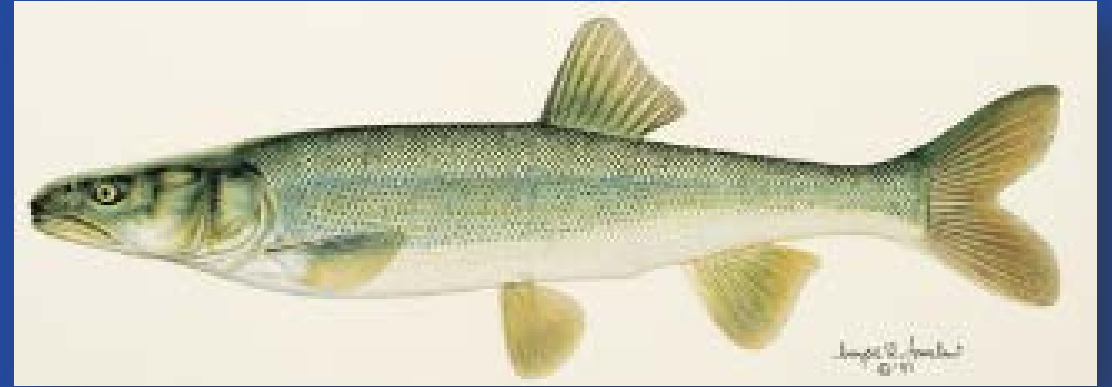


# Case Study: Colorado River System

## Endangered Fish Recovery Programs



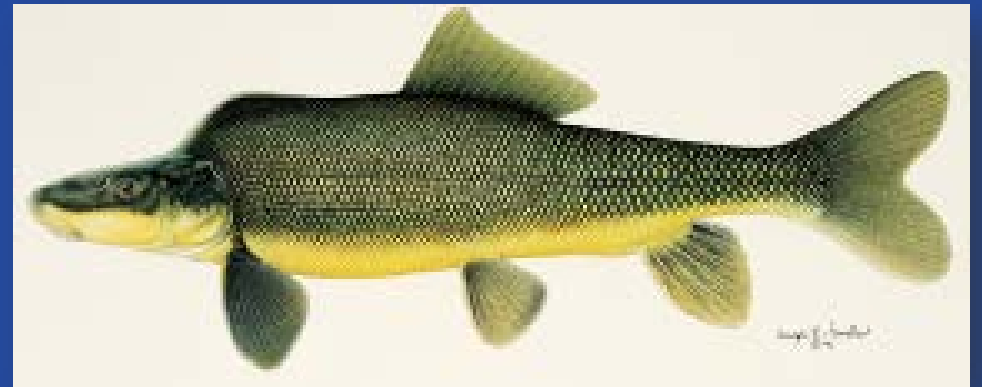
*Bonytail*



*Colorado Pikeminnow*



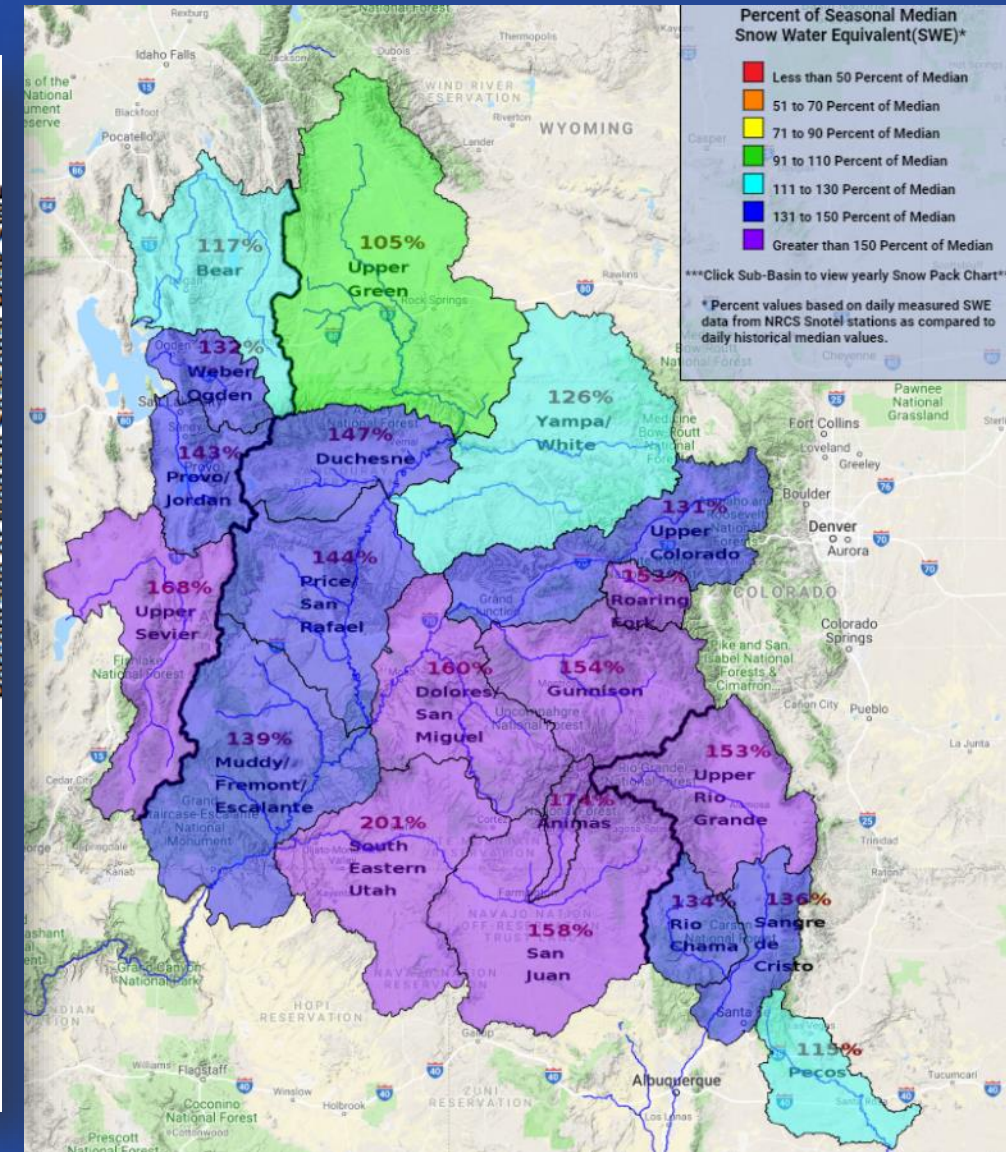
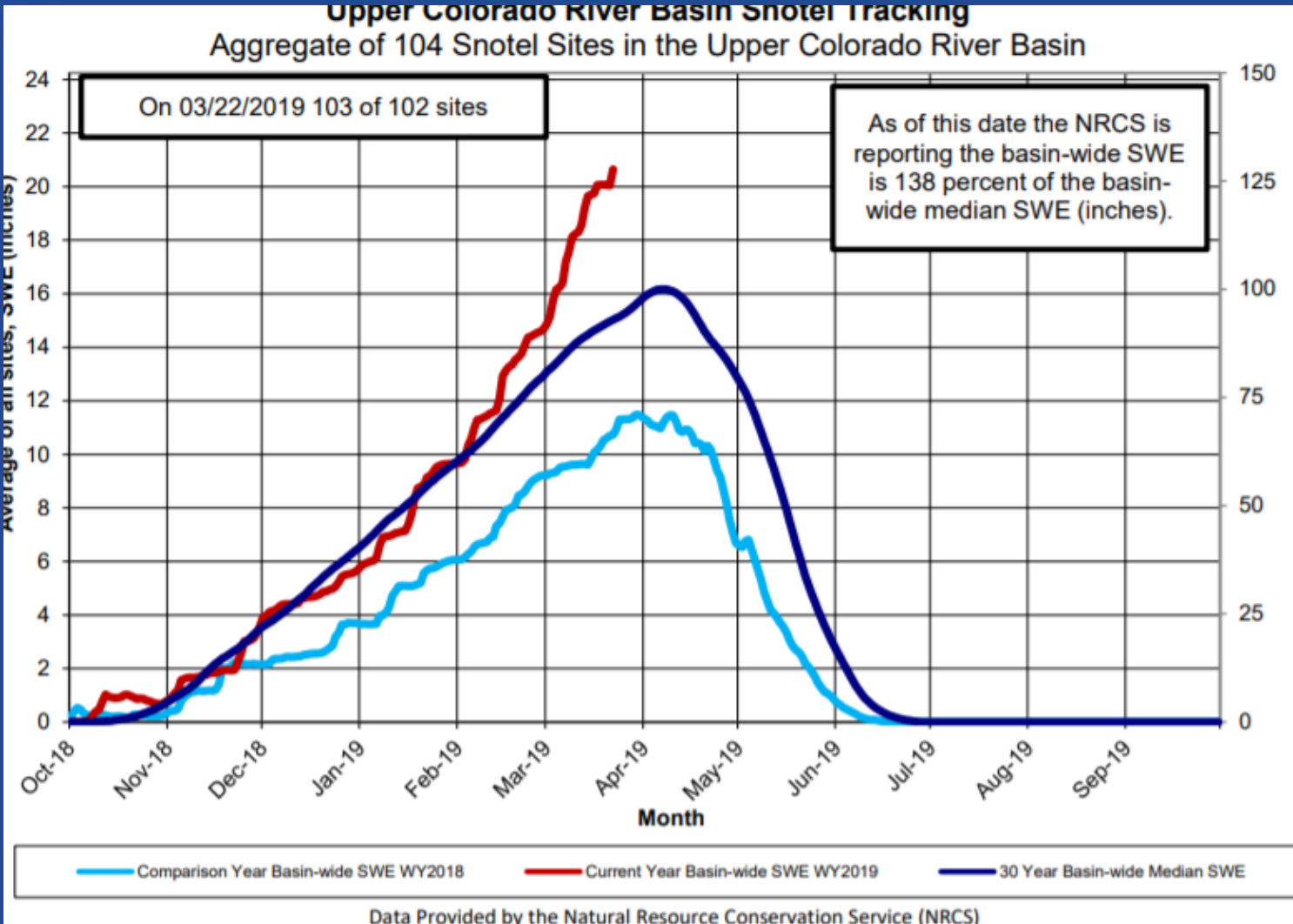
*Humpback Chub*



*Razorback Sucker*



# Water Supply & Hydrology







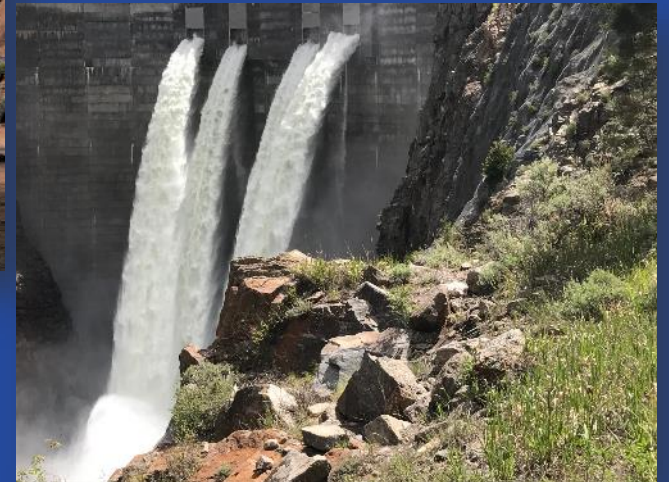
# Ongoing Drought







# Value of Water Storage





# Colo. River Drought Contingency Plans



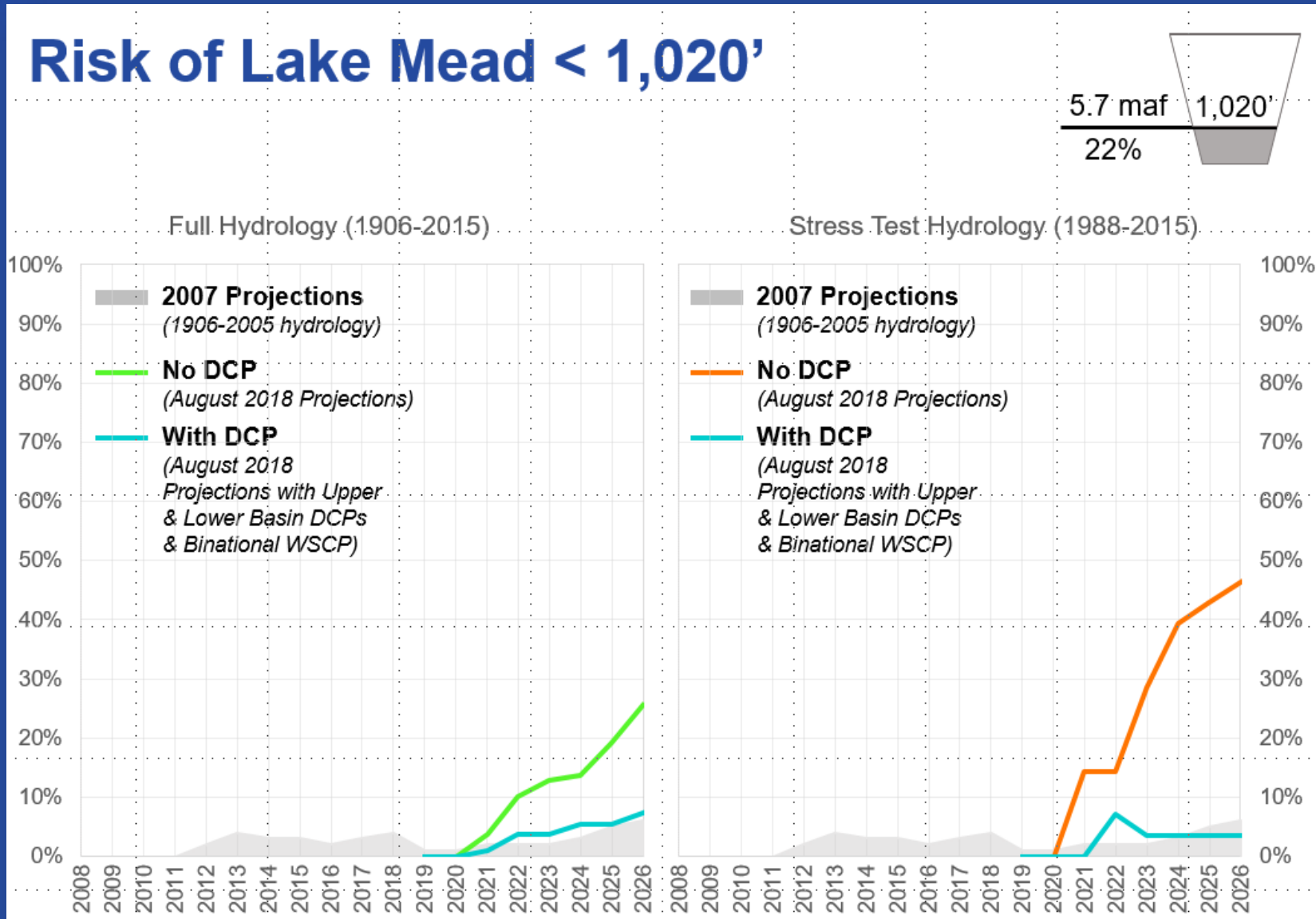
*Lake Powell*



*Lake Mead*



# Colo. River Drought Contingency Plans





# Colo. River Drought Contingency Plans

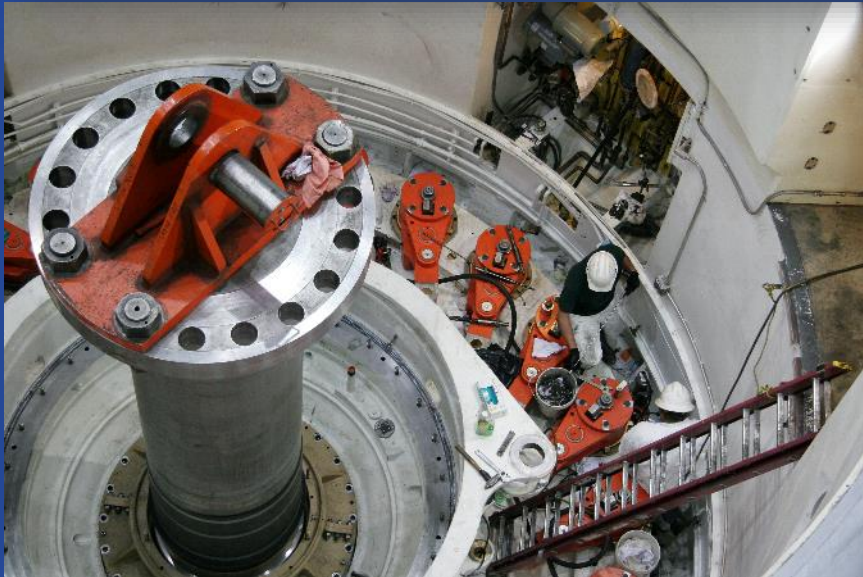
Total Contemplated Lower Basin Volumes (in KAF) 2007 Interim Guidelines, Minute 323, Lower Basin Drought Contingency Plan & Binational Water Scarcity Contingency Plan														
Lake Mead Elevation (ft msl)	2007 Interim Guidelines Shortages		Minute 323 Delivery Reductions	Total Combined Reductions	DCP Contributions			Binational Water Scarcity Contingency Plan Savings	Combined Volumes by Country US: (2007 Interim Guidelines Shortages + DCP Contributions) Mexico: (Minute 323 Delivery Reductions + Binational Water Scarcity Contingency Plan Savings)					Total Combined Volumes
	AZ	NV	Mexico	Lower Basin States + Mexico	AZ	NV	CA	Mexico	AZ Total	NV Total	CA Total	Lower Basin States Total	Mexico Total	Lower Basin States + Mexico
1,090 - >1,075	0	0	0	0	192	8	0	41	192	8	0	200	41	241
1,075 - >1,050	320	13	50	383	192	8	0	30	512	21	0	533	80	613
1,050 - >1,045	400	17	70	487	192	8	0	34	592	25	0	617	104	721
1,045 - >1,040	400	17	70	487	240	10	200	76	640	27	200	867	146	1,013
1,040 - >1,035	400	17	70	487	240	10	250	84	640	27	250	917	154	1,071
1,035 - >1,030	400	17	70	487	240	10	300	92	640	27	300	967	162	1,129
1,030 - 1,025	400	17	70	487	240	10	350	101	640	27	350	1,017	171	1,188
<1,025	480	20	125	625	240	10	350	150	720	30	350	1,100	275	1,375

The US will work to create or conserve 100,000 af or more of Colorado River system water on an annual basis to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs. All actions taken by the United States shall be subject to applicable federal law, including availability of appropriations.





# Prioritizing Infrastructure







# Navajo-Gallup Water Supply Project





# CRSP Facility Upgrades





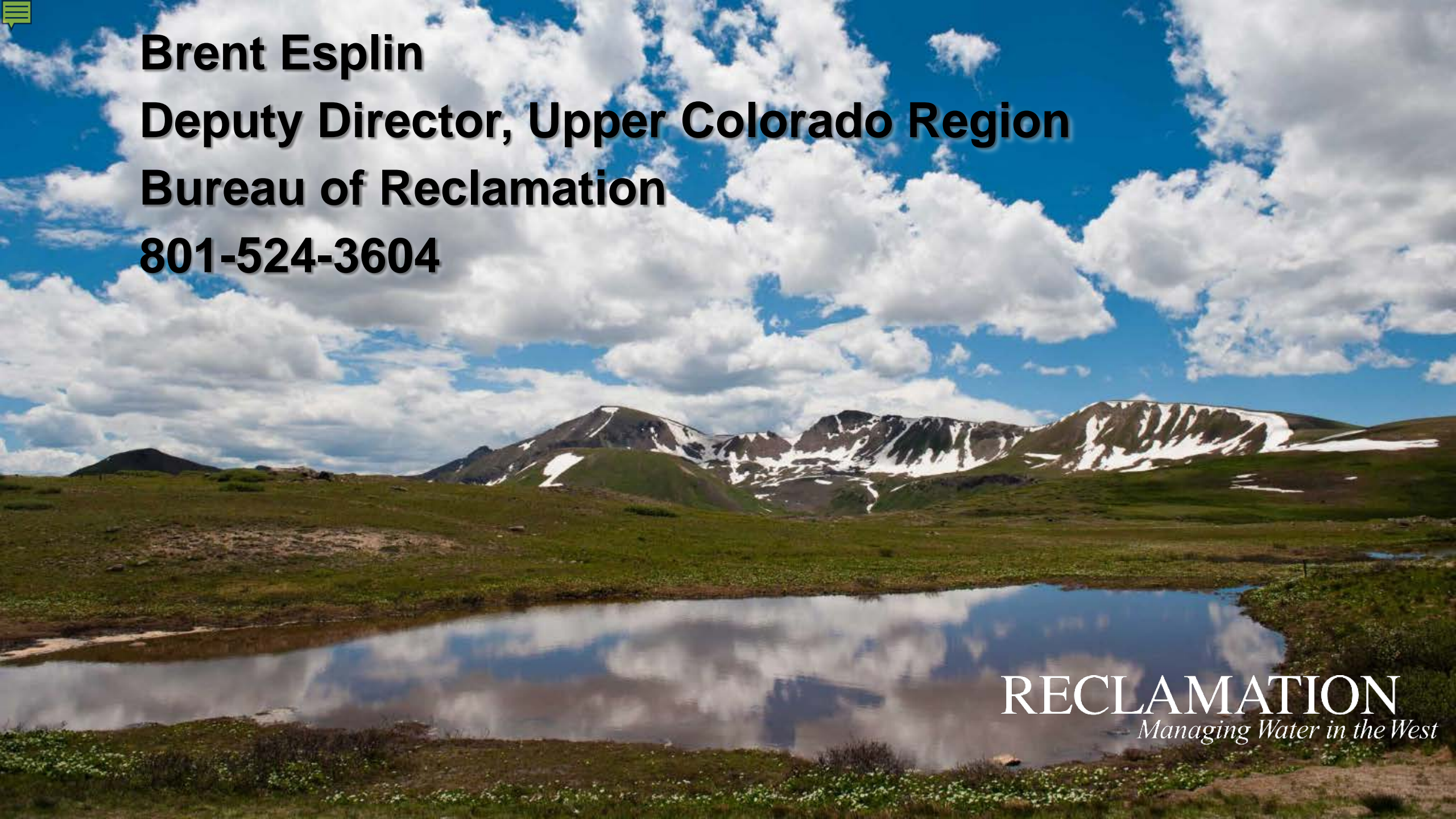


**Brent Esplin**

**Deputy Director, Upper Colorado Region**

**Bureau of Reclamation**

**801-524-3604**



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# Colorado River Basin Drought Contingency Plans

