



2023 FLOOD OPERATIONS

Partnerships

- CHURCHILL COUNTY
- CITY OF FALLON
- TCID
- BOR
- US FISH & WILDLIFE
- NEVADA DEPARTMENT OF WILDLIFE
- NEVADA DEPARTMENT OF EMERGENCY
MANAGEMENT
- US NAVY
- NDOT

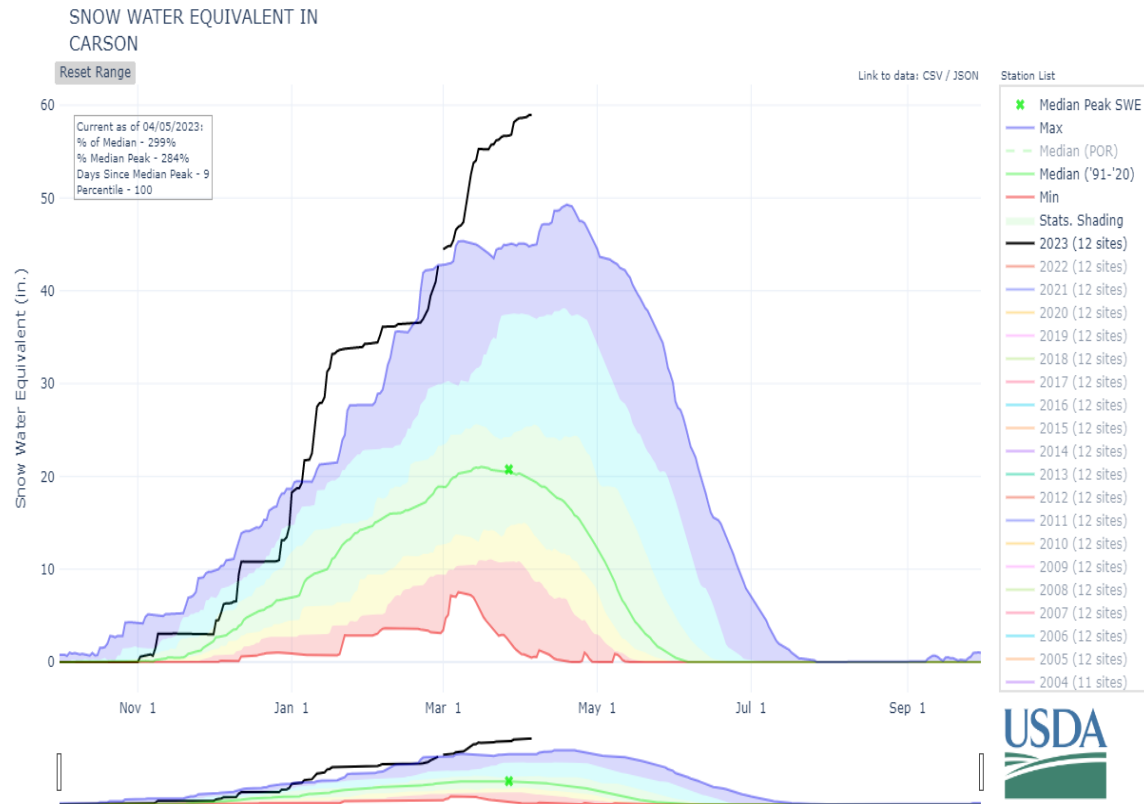
Timeline

- **January** – Massive Storms
- **February** – Slowed down for 2 weeks then ramped up again
- **March 1** - On Track with 2017
- **March 2** – Churchill County Declares Emergency, Opens Emergency Operations Center
- **March 5** – Pass 2017 Snow Water Equivalent
- **March 6** – Start Emergency Operations with Precautionary Drawdowns and Spread Water

Emergency Operations

- Weekly EOC Meetings with Water Forecast
- Coordinate All Aspects of Emergency
 - sandbags
 - monitoring
 - system improvements
 - finances
 - staffing
 - equipment
 - public information
 - call center
 - County Website

What We've Been Watching



2017 vs. 2023

	2017	2023
Snowpack		x
Low Elevation Snow		x
Soil Moisture	x	
Late Melt		X
Late Season Cold		x
Late Season Orders		X

Emergency Release Criteria for Lahontan Reservoir

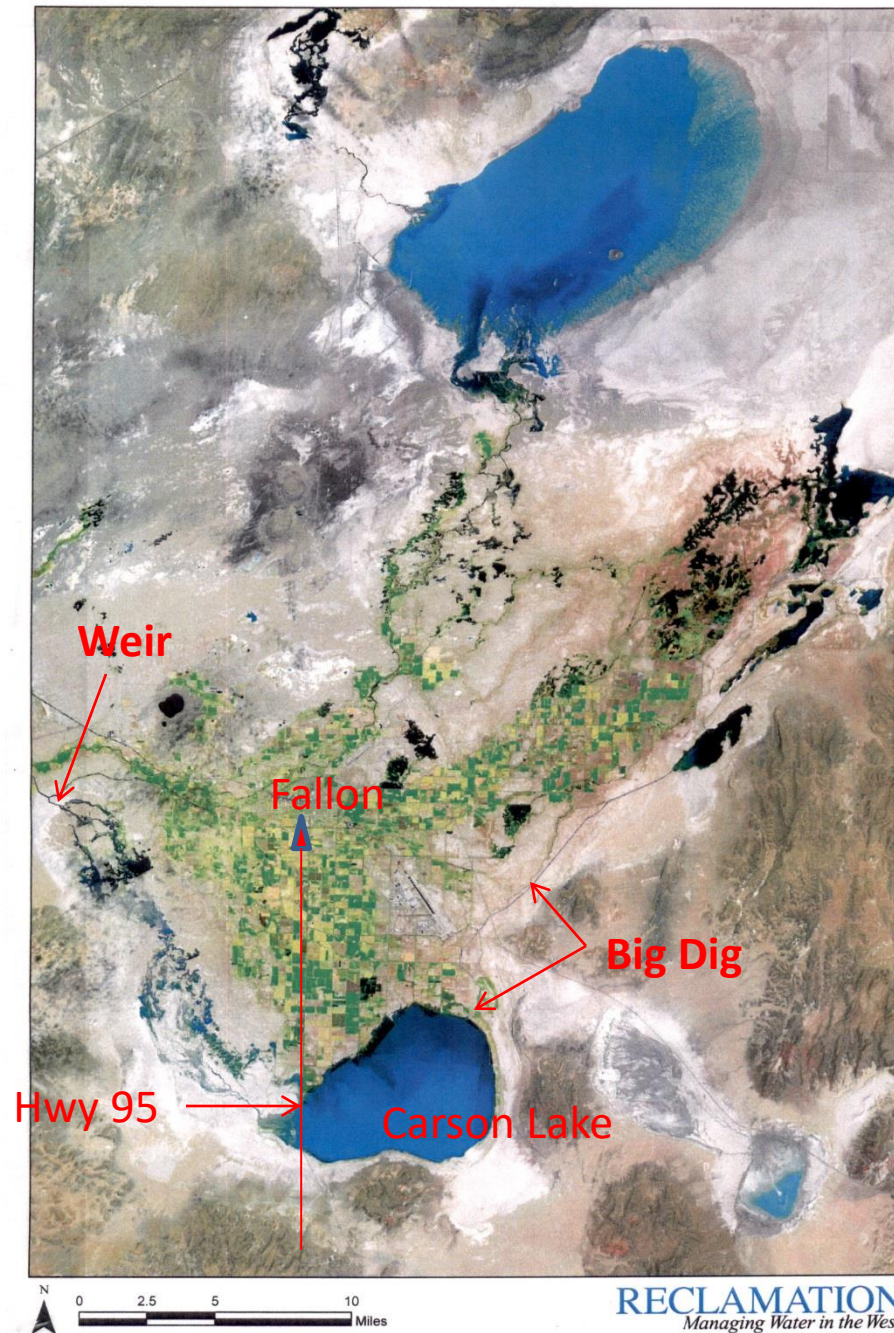
Precautionary drawdown of Lahontan Reservoir may be made only for the purpose of limiting potential flood damage along the Carson River. Whenever Lahontan Reservoir storage exceeds or is forecast to exceed 295,500 acre-feet, water shall be released from the reservoir in order to minimize or prevent flood damage along the Carson River downstream from the dam. The flashboards may remain in place at all times, but storage on the flashboards will be permitted only after the peak runoff has occurred and the threat of flooding has passed.

Flood Operations – When Bafford Bridge is forecast to be 500 cfs

Bafford Bridge at 1,000 cfs



City of Fallon and Carson Sink: June 5th, 2017









TODAY

- Latest forecast shows 1.1 million af in basin.
- With low soil moisture results in appx 700k – 800k acre feet to come down
- Reservoir holds 300k acre feet
- Can't Store on Boards until After Peak Runoff
- Constructing 2nd emergency weir outlet
- Constructing 8 mile dirt berm at Carson Lake

2nd Emergency Weir

- Now 1300 cfs
- With New Weir 2500 cfs
- Additional 1,200 cfs
- Total releases will be 3800 cfs
- This equals appx 7,600 acre feet/day

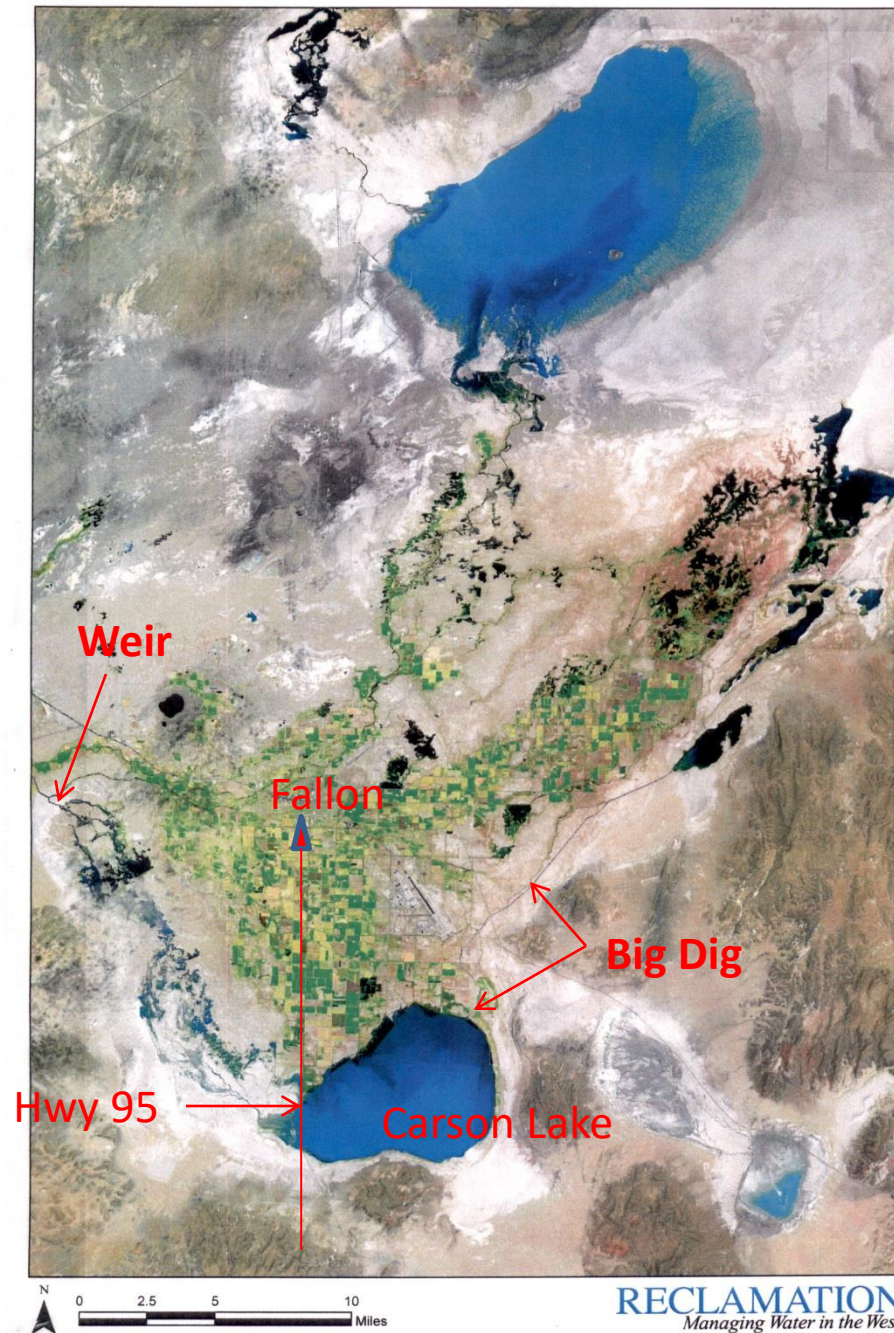




Berm



City of Fallon and Carson Sink: June 5th, 2017



Tcid.org

Carson River Below Lahontan 2540 cfs		
V-Line 1340 cfs	River Gates 1035 cfs	T-Line 125 cfs
V-Line Weir 740 cfs	V-Line Spill 50 cfs	N-Line 30 cfs
Sheckler Inlet 230 cfs	Coleman Dam 1085 cfs	Sageuspe Dam 860 cfs
E-Line -- cfs	V-Line to S-Line 160 cfs	River Below Sageuspe 859 cfs
A-Line 52 cfs	S-Line Reservoir 173 cfs	D-Line 50 cfs
G-Line 30 cfs	S7 Lateral 12 cfs	S-Line to Harmon 100 cfs
Upper Lake 25 cfs	Carson Lake Pasture 970 cfs	R-Line cfs
Likes Lake 25 cfs	L-Line 200 cfs	Harmon Reservoir 100 cfs

Challenges

- Avoid Complacency
- Flood Insurance
- FEMA – Recovery vs. Prevention
- Moving Water Out of Natural Channel
- Damage to Navy Ranges, Roads, Farmland (drainage issues), Grazers
- Conflict between Urban Development and Historical Floodplain
- Accurate Forecasting – Snotel Sites vs. LiDAR