U.S. Department of the Interior
Bureau of Reclamation
Upper and Lower Colorado Basin Regions

Lake Mohave and Lake Havasu Reservoir Capacity Allocation

Summary

When the new topo-bathymetric surveys for Lake Mohave and Lake Havasu were completed in 2022, Reclamation updated the elevation–area and elevation–storage relationships for both reservoirs to replace legacy datasets dating back to 1949 (Mohave) and 1957 (Havasu). These updated surveys were collected between November 2021 and June 2022 as part of a larger Lower Colorado River system mapping effort extending from below Hoover Dam to the Southern International Border with Mexico.

The updated Area and Capacity (ACAP) tables reflected advances in survey accuracy and resolution. For Lake Mohave, the new survey identified an increase of 77,370 acre-feet in storage capacity at the top of the spillway gates (elevation 647 feet), resulting in a total capacity of 1,887,167 acre-feet. For Lake Havasu, the updated survey identified a 29,140 acre-foot decrease in total capacity at the top of the spillway gates (elevation 450 feet), producing an updated total capacity of 590,262 acre-feet. These changes are attributed to improved bathymetric resolution and impacts from geomorphic changes, such as sedimentation, over time.

Due to the change in the ACAP for both reservoirs, Reclamation has updated the Reservoir and Capacity Allocation sheets, therefore, the updated sheets supersede the ones published previously.

Lake Mohave

Key Information:

Old Total Capacity: 1,818,300 acre-feet
Old Live Capacity: 1,809,800 acre-feet
Old Active Capacity: 1,592,300 acre-feet

New Total Capacity: 1,887,167 acre-feet
New Live Capacity: 1,873,648 acre-feet
New Active Capacity: 1,634,783 acre-feet

Lake Havasu

Key Information:

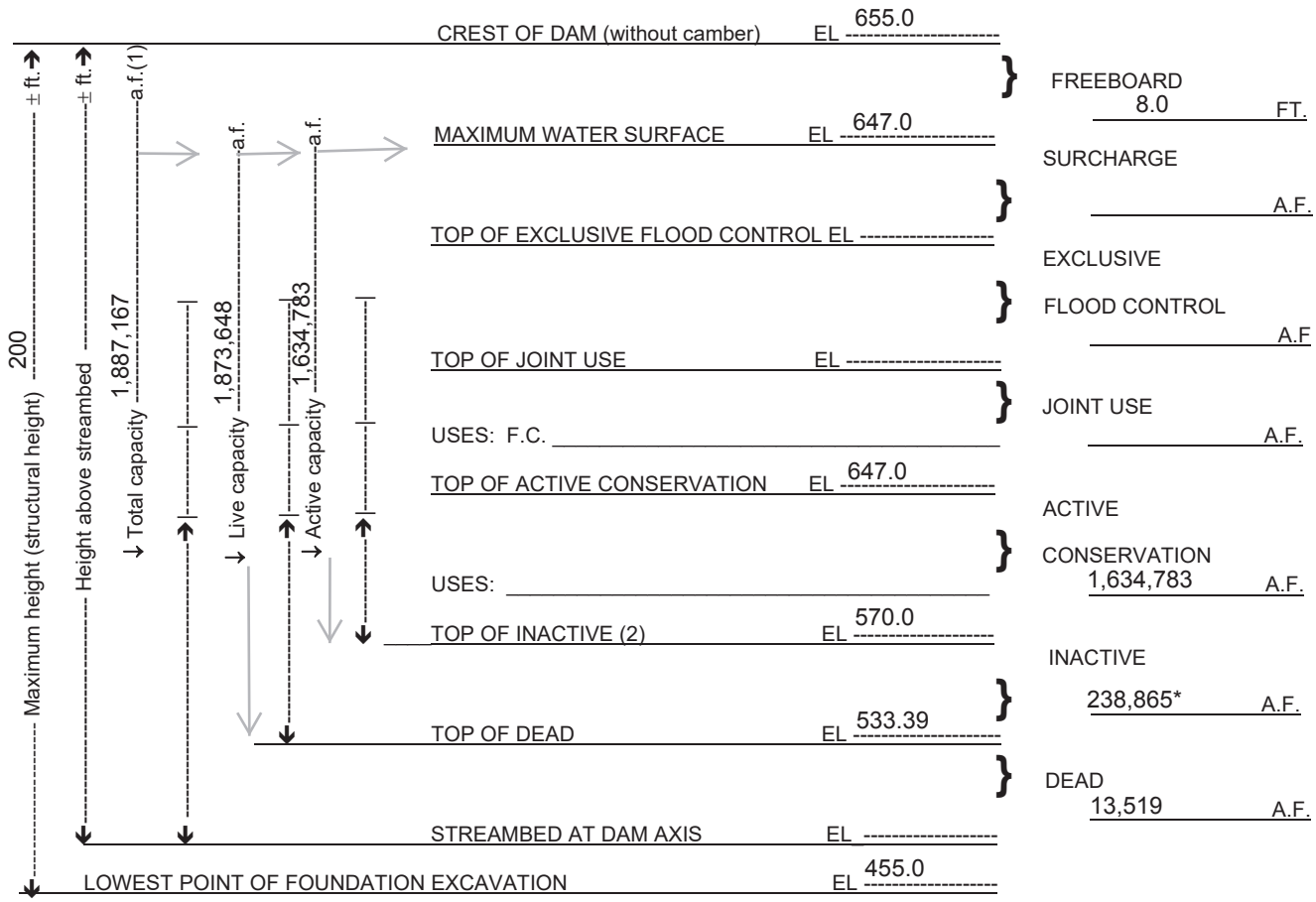
Old Total Capacity: 651,000 acre-feet
Old Live Capacity: 624,200 acre-feet
Old Active Capacity: 180,000 acre-feet

New Total Capacity: 590,262 acre-feet
New Live Capacity: 570,253 acre-feet
New Active Capacity: 176,837 acre-feet

7-1686 (5-06)
Bureau of Reclamation

RESERVOIR CAPACITY ALLOCATIONS

TYPE OF DAM Zoned earthfill		REGION 3	STATE Arizona-Nevada
OPERATED BY Bureau of Reclamation		Lake Mohave	RESERVOIR
CREST LENGTH 1,600 FT.	CREST WIDTH 50 FT.	Davis	DAM
VOLUME OF DAM 3,642,000 CU YD.		Parker-Davis	PROJECT
CONSTRUCTION PERIOD 1942-1950		Davis Dam Field	DIVISION
STREAM Colorado River			UNIT
RES AREA 28,892	ACRES AT EL 647.0 FT	Operational	STATUS OF DAM
ORIGINATED BY: ERIN OROZCO-WHITAKER Digitally signed by ERIN OROZCO-WHITAKER Date: 2026.01.30 10:08:39 -08'00'	EOW (Initials) LC-4630 (Code) 10/17/2025 (Date)	APPROVED BY: LEONARD SCHILLING Digitally signed by LEONARD SCHILLING Date: 2026.01.28 14:29:55 -08'00'	(Initials) (Code) (Date)



(1) Includes_____a.f. allowance for_____year sediment deposition between streambed and EL_____of which_____a.f. is above EL_____.
(2) Established by_____.

REFERENCES AND COMMENTS:

*Refers to live capacity

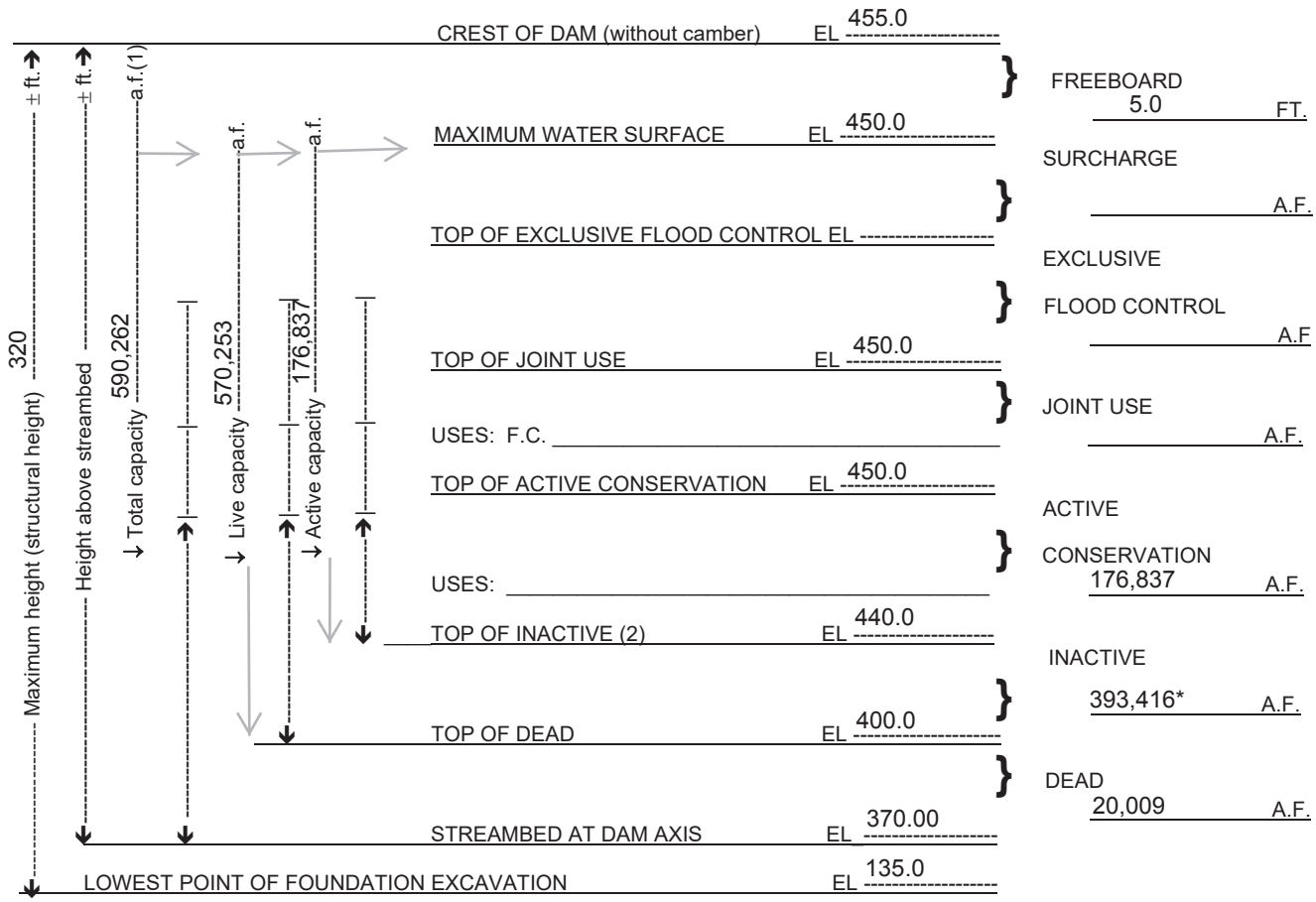
Surface area and capacity information was updated in 2022 using LiDAR and Bathymetry surveys.

The elevations in this sheet are in Reclamation Project Vertical Datum (RPVD), converted from the North American Vertical Datum of 1988 (NAVD88) using the following equation:
RPVD Davis elevation (feet) = NAVD88 elevation (feet) - 3.39 feet

7-1686 (5-06)
Bureau of Reclamation

RESERVOIR CAPACITY ALLOCATIONS

TYPE OF DAM Concrete Arch		REGION 8	STATE Arizona-Nevada
OPERATED BY Bureau of Reclamation		Lake Havasu	RESERVOIR
CREST LENGTH 856 FT.	CREST WIDTH 39 FT.	Parker	DAM
VOLUME OF DAM 380,000	CU YD.	Parker-Davis	PROJECT
CONSTRUCTION PERIOD 8/25/1934 - 11/10/1938		Parker Dam Field	DIVISION
STREAM Colorado River			UNIT
RES AREA 19,813	ACRES AT EL 450.0 FT	Operational	STATUS OF DAM
ORIGINATED BY: ERIN OROZCO-WHITAKER Digitally signed by ERIN OROZCO-WHITAKER Date: 2026.01.30 10:07:59 -08'00'	EOW (Initials) LC-4630 (Code) 10/17/2025 (Date)	APPROVED BY: MARCUS DICKERSON Digitally signed by MARCUS DICKERSON Date: 2025.10.20 16:11:08 -07'00'	MDD (Initials) LC-P01 (Code) 10/20/2025 (Date)



(1) Includes_____a.f. allowance for_____year sediment deposition between streambed and EL_____of which_____a.f. is above EL_____.
(2) Established by_____.

REFERENCES AND COMMENTS:

*Refers to live capacity
Surface area and capacity information was updated in 2022 using LiDAR and Bathymetry surveys.

The elevations in this sheet are in Reclamation Project Vertical Datum (RPVD), converted from the North American Vertical Datum of 1988 (NAVD88) using the following equation:
RPVD Parker elevation (feet) = NAVD88 elevation (feet) - 2.72 feet.