
Drought Contingency Plan *IBWC Colorado River Citizens Forum*

October 24, 2018

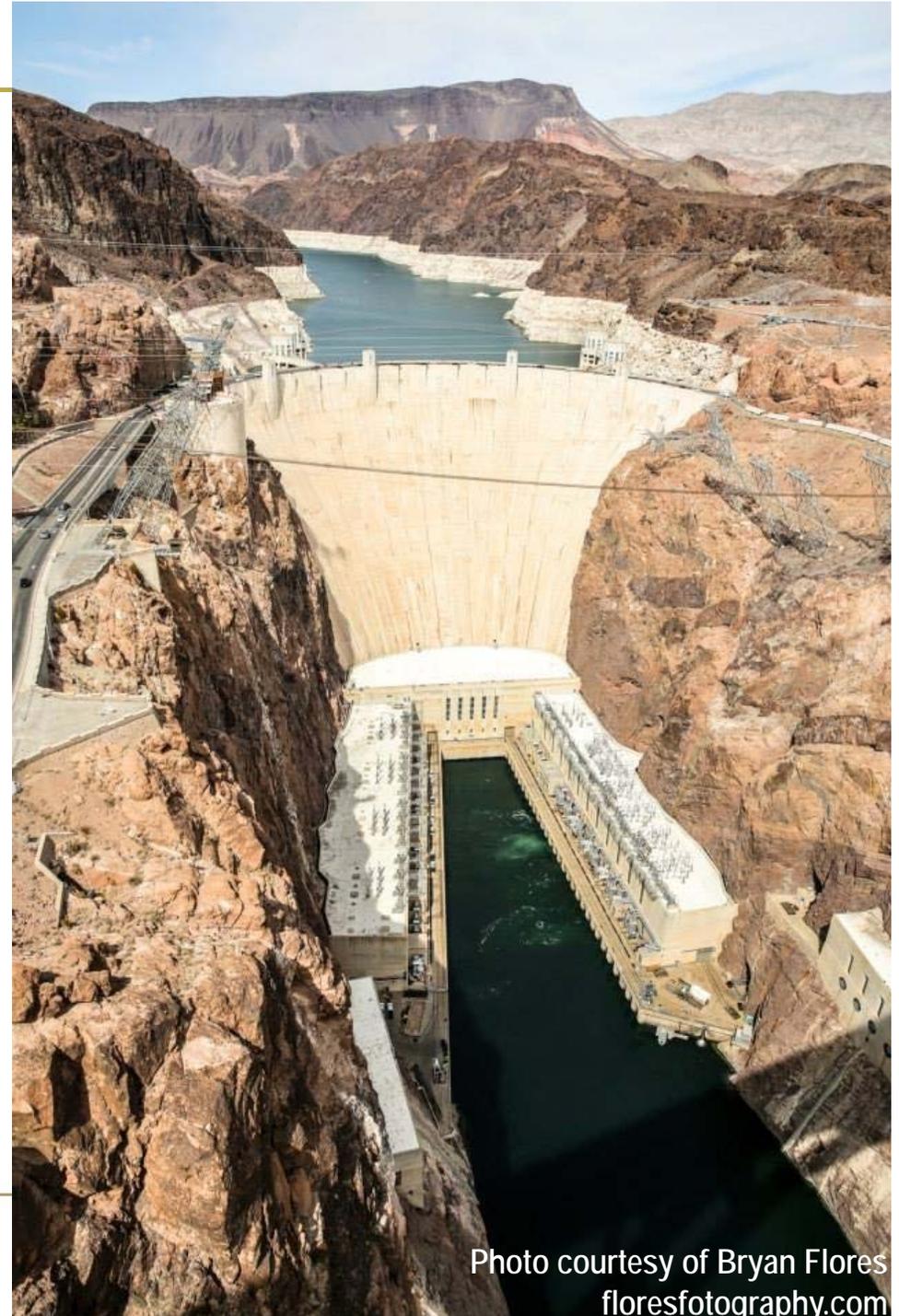
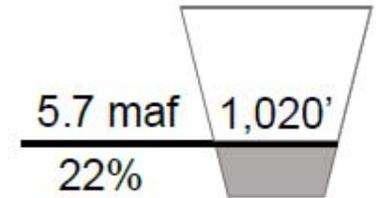
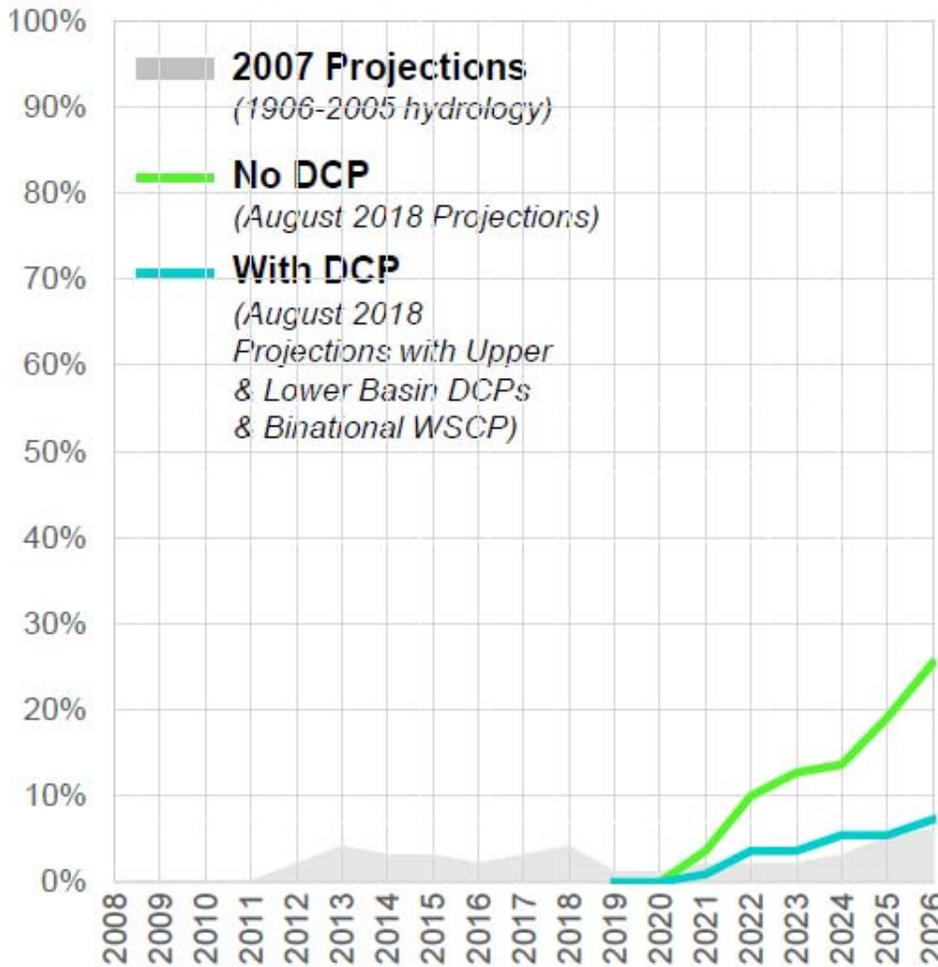


Photo courtesy of Bryan Flores
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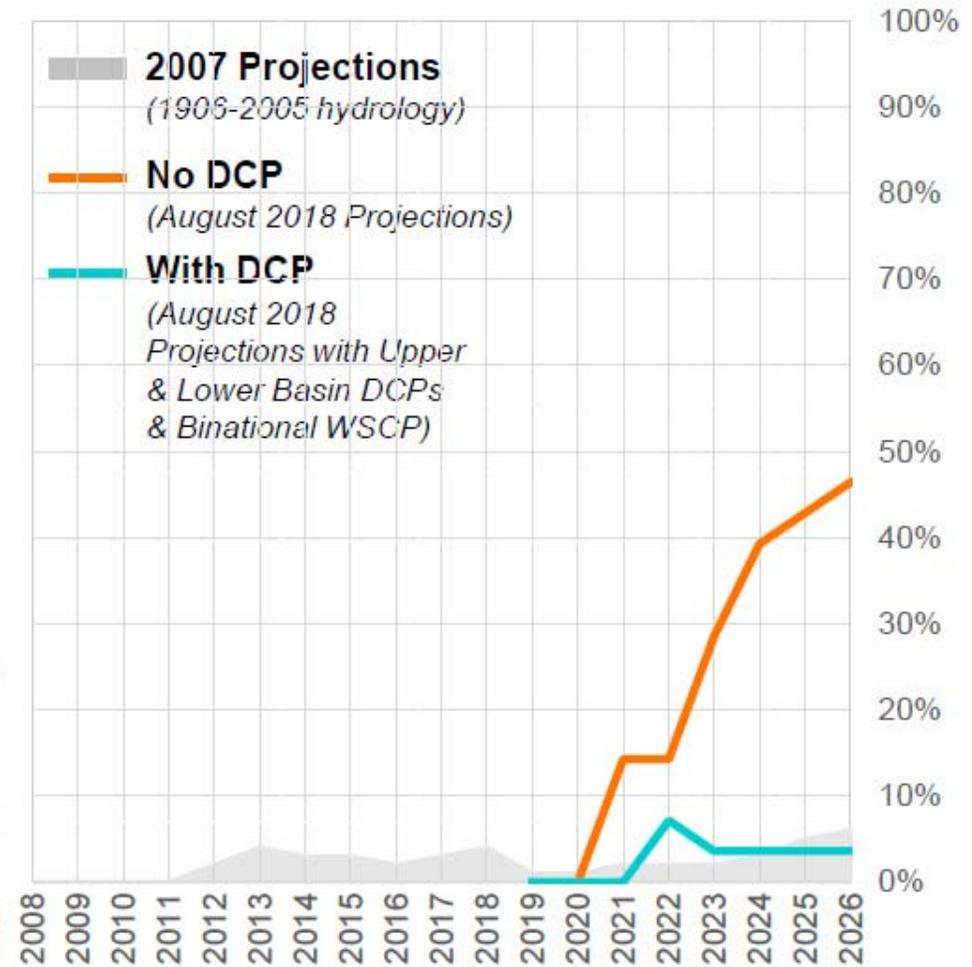
Risk of Lake Mead < 1,020'



Full Hydrology (1906-2015)



Stress Test Hydrology (1988-2015)

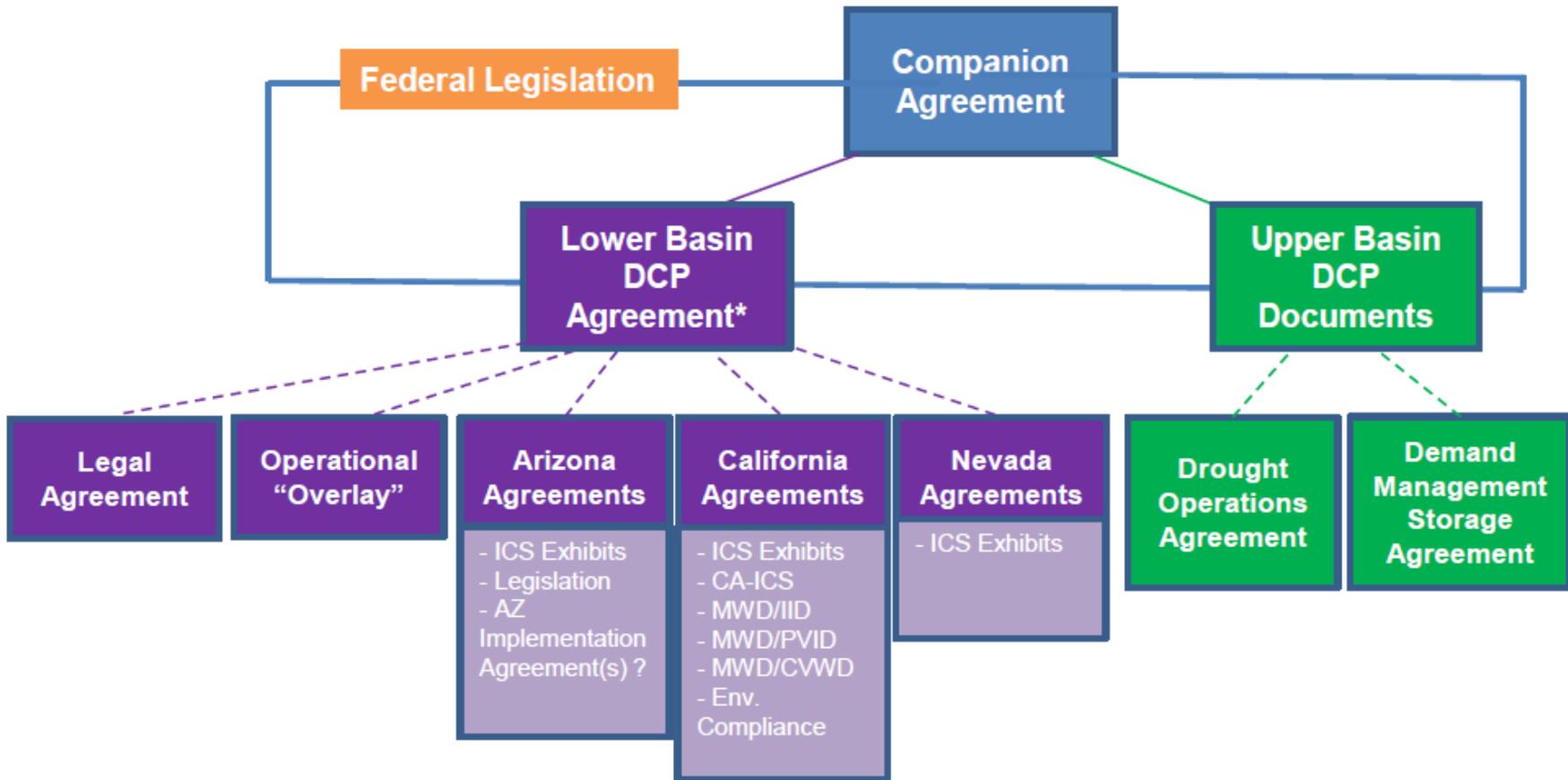


Drought Contingency Plan Goals

- Reduce increased risk of Lake Powell/Lake Mead reaching critically low elevations from drought and climate change to that of the *2007 Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead* (2007 ISG) levels (\leq five percent).
 - *Lake Powell critical elevations: 3490' (minimum hydropower elevation) and 3525' (elevation requiring UB reservoirs to start delivering water to Powell)*
 - *Lake Mead critical elevations: 1020' (below lowest 2007 ISG shortage trigger)*
- Reduce the risk of involuntary UB curtailment to maintain compliance with the 1922 Colorado River Compact and authorize conserved water storage in UB
- Provide LB operational certainty and increased flexibility below 1,075' at Lake Mead (first shortage trigger) by incentivizing voluntary ICS
- Enact Mexico's Water Scarcity Contingency Plan including additional Lake Mead drought contributions from 50,000 AFY to 125,000 AFY
- Continue basin-wide coordinated and collaborative operations



Drought Contingency Plan Framework



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*Activates Mexico's Minute 323 Binational Water Scarcity Contingency Plan

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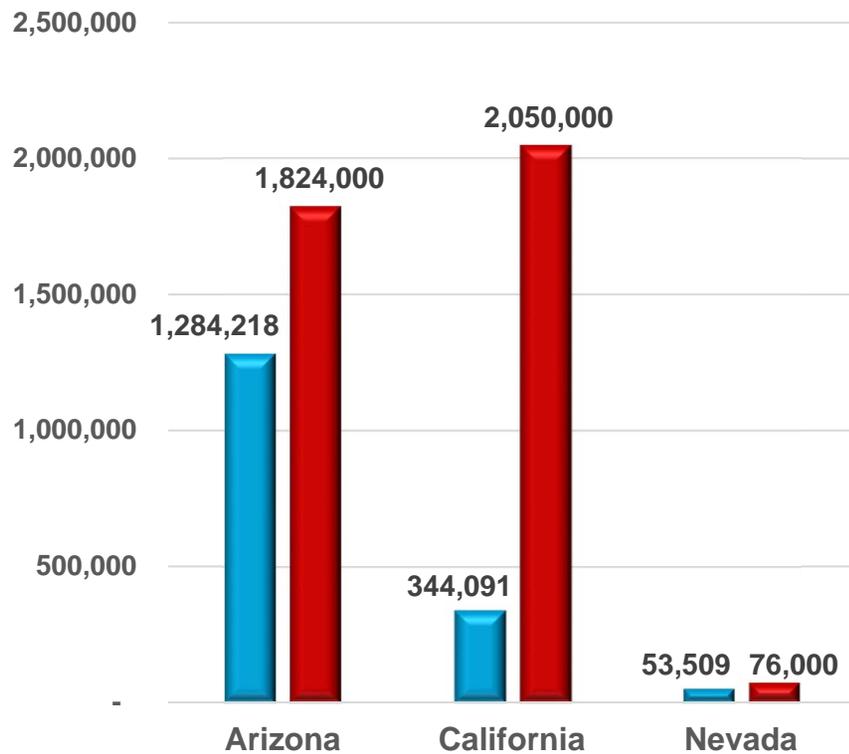
Lower Basin DCP Agreement Summary

- Overlay to the 2007 Interim Shortage Guidelines
- Annual state DCP ICS contributions from 200,000 AFY to 600,000 AFY through 2026 at defined elevations (in addition to existing shortage reductions)
- Additional operational flexibility for Extraordinary Conservation ICS (contractors may take ICS deliveries below 1,075' and until 1,025')
 - *DCP term is through December 31, 2026, but allows for ICS balances through 2057*
 - *Increases ICS storage limits for each state by 200,000 AF; California = 1,700,000 AF, Nevada = 500,000 AF, Arizona = 500,000 AF*
 - *No change to ICS delivery limits; CA = 400,000 AFY, AZ and NV = 300,000 AFY*
 - *Additional qualifying conservation measures for EC ICS (supplemental 2007 ISG Exhibits)*
- Federal commitment for 100,000 AFY of system improvements
 - Allows contractors to make DCP contributions for other states
 - Extends interstate banking from 1,075' to 1,045'

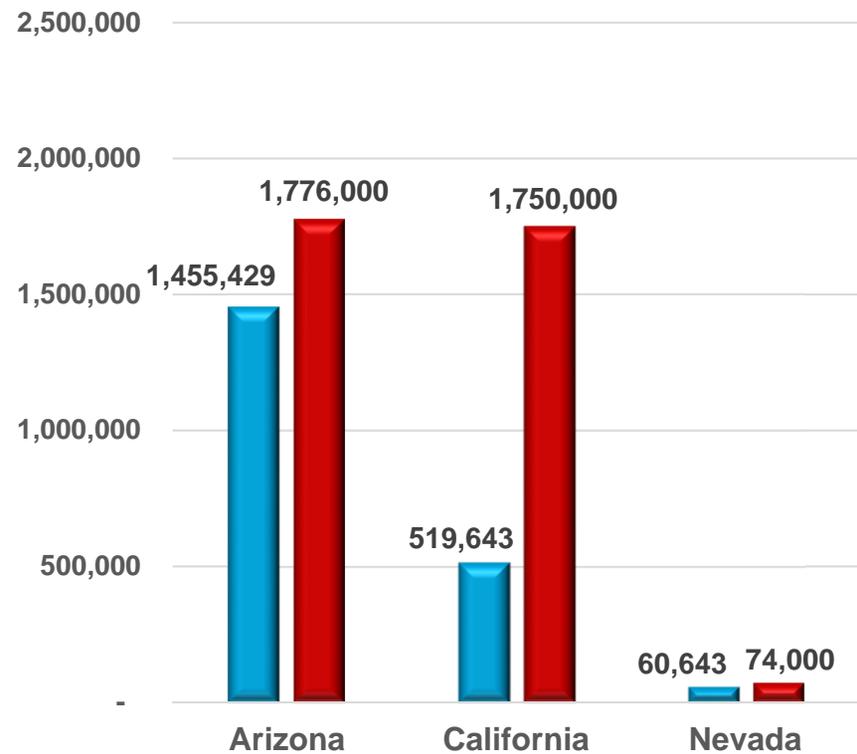


Cumulative DCP Contributions through 2026 (in AF)

Full Hydrology Projection



Stress Test Projection



■ Average Contribution ■ Maximum Contribution

Intra-California DCP Agreements

- *Amendment No. 2 to the California Agreement for the Creation and Delivery of Extraordinary Conservation ICS* – PVID, IID, CVWD, MWD and the City of Needles
- *Intra-California Implementation Agreements* - defines the distribution between agencies of California's DCP contributions in years in which the projected January 1st Lake Mead elevation is below 1,045' and other inter-agency provisions (details still being negotiated)
 - *PVID/MWD Agreement – provides for up to 28,000 AFY of PVID DCP contributions*
 - *CVWD/MWD Agreement – provides for up to 24,500 AFY of CVWD DCP contributions*
 - *IID/MWD Agreement – provides for up to 250,000 AF of IID DCP contributions (cumulative cap), up to the 297,500 AFY of MWD DCP contributions, transfer of IID's MWD storage water to Lake Mead and 100,000 AF of additional IID ICS capacity*

