The operation of Lake Powell and Lake Mead in this September 2022 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2022 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2021 24-Month Study projections of the January 1, 2022, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2022.

The August 2021 24-Month Study projected the January 1, 2022, Lake Powell elevation to be less than 3,575 feet and at or above 3,525 feet and the Lake Mead elevation to be at or above 1,025 feet. Consistent with Section 6.C.1 of the Interim Guidelines the operational tier for Lake Powell in water year 2022 is the Mid-Elevation Release Tier.

The August 2021 24-Month Study projected the January 1, 2022 Lake Mead elevation to be at or below 1,075 feet and at or above 1,050 feet. Consistent with Section 2.D.1 of the Interim Guidelines, a Shortage Condition consistent with Section 2.D.1.a will govern the operation of Lake Mead for calendar year (CY) 2022. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement will also govern the operation of Lake Mead for CY 2022. Efforts to conserve additional water in Lake Mead under a 2021 Lower Basin Memorandum of Understanding (MOU) to facilitate near-term actions to maintain the water surface elevation of Lake Mead will also take place in CY 2022.

In light of the prolonged drought, low runoff conditions, and depleted storage at Lake Powell, the Department of the Interior implemented an action under Sections 6 and 7.D of the 2007 Interim Guidelines specifically reducing the Glen Canyon Dam annual releases to 7.00 maf in water year 2022.¹ This action was undertaken in conjunction with the 2022 Drought Response Operations Plan² actions which together are anticipated to add approximately one million additional acre-feet of storage to Lake Powell by April 2023. The Department of Interior and Reclamation will work to determine the manner in which to operate Glen Canyon Dam to ensure the benefits of these actions are preserved.

The reduction of releases from Lake Powell from 7.48 maf to 7.00 maf in water year 2022 will result in a reduced release volume of 0.480 maf that normally would have been released from Glen Canyon Dam to Lake Mead as part of the 7.48 maf annual release volume, consistent with routine operations under the 2007 Interim Guidelines. The reduction of releases from Glen Canyon Dam in water year 2022 (resulting in increased storage in Lake Powell) will not affect future operating determinations and will be accounted for “as if” this volume of water had been delivered to Lake Mead. The 24-Month Study will continue to model 2023 and 2024 operations at Lakes Powell and Mead as if the 0.480 maf had been delivered to Lake Mead for operating condition purposes both for the U.S. Lower Basin and for Mexico unless otherwise determined through additional consultation and communication as described below. The elevations listed in this report reflect the projected physical elevations at each reservoir after implementing operations as described.

Using the approach described in the immediately preceding paragraph, the August 2022 24-Month Study projected the January 1, 2023, Lake Powell elevation to be less than 3,525 feet. Consistent with Section 6.D.1 of the Interim Guidelines, Lake Powell’s operations in water year 2023 will be governed by the Lower

Elevation Balancing Tier with an initial projected water year release volume of 7.00 million acre-feet (maf). Because the 2022 operations were designed to protect critical elevations at Lake Powell, Reclamation will implement Lower Elevation Balancing Tier operations in a way that continues to protect these critical elevations, or preserves the benefits of the 2022 operations to protect Lake Powell, in water year 2023. Specifically, Reclamation modeled operations in water year (WY) 2023 as follows:

- The Glen Canyon Dam annual release has initially been set to 7.00 maf, and in April 2023 Reclamation will evaluate hydrologic conditions to determine if balancing releases may be appropriate under the conditions established in the 2007 Interim Guidelines;
- Balancing releases will be limited (with a minimum of 7.00 maf) to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023;
- Balancing releases will take into account operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action. Any Lake Powell balancing release volume will be calculated as if the 0.480 maf had been delivered to Lake Mead in WY 2022; and
- The modeling approach for WY 2023 will apply to 2024.

Consistent with the provisions of the 2007 Interim Guidelines, and to preserve the benefits to Glen Canyon Dam facilities from 2022 Operations into 2023 and 2024, Reclamation will consult with the Basin States on monthly and annual operations. Reclamation will also ensure all appropriate consultation with Basin Tribes, the Republic of Mexico, other federal agencies, water users and non-governmental organizations with respect to implementation of these monthly and annual operations.

Reclamation will continue to carefully monitor hydrologic and operational conditions and assess the need for additional responsive actions and/or changes to operations. Reclamation will continue to consult with the Basin States, Basin Tribes, the Republic of Mexico, and other partners on Colorado River operations to consider and determine whether additional measures should be taken to further enhance the preservation of these benefits, as well as recovery protocols, including those of future protective measures for both Lakes Powell and Mead.

The August 2022 24-Month Study projected the January 1, 2023 Lake Mead elevation, determined as if the 0.480 maf had been delivered to Lake Mead in water year 2022, to be below 1,050 feet and above 1,045 feet. Consistent with Section 2.D.1 of the Interim Guidelines, a Shortage Condition consistent with Section 2.D.1.b will govern the operation of Lake Mead for calendar year 2023. In addition, Section III.B of Exhibit 1 to the Lower Basin DCP Agreement will govern the operation of Lake Mead for calendar year 2023. Efforts to conserve additional water in Lake Mead under the 2021 MOU will also continue in CY 2023.

The 2023 operational tier determinations for Lake Powell and Lake Mead will be documented in the 2023 AOP, which is currently in development.

Current runoff projections into Lake Powell are provided by the National Weather Service’s Colorado Basin River Forecast Center and are as follows. The observed unregulated inflow into Lake Powell for the month of August was 0.368 maf or 98 percent of the 30-year average from 1991 to 2020. The September unregulated inflow forecast for Lake Powell is 0.240 maf or 69 percent of the 30-year average. The observed 2022 April through July unregulated inflow is 3.75 maf or 59 percent of average.

In this study, the calendar year 2022 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.122 maf. The calendar year 2022 diversion for the Central Arizona Project (CAP) is projected to be 1.017 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.242 maf for calendar year 2022.

Due to changing Lake Mead elevations, Hoover’s generator capacity is adjusted based on estimated effective capacity and plant availability. The estimated effective capacity is based on projected Lake Mead elevations. Unit capacity tests will be performed as the lake elevation changes. This study reflects these changes in the projections.

Hoover, Davis, and Parker Dam historical gross energy figures come from PO&M reports provided by the Lower Colorado Region’s Power Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Colleen Dwyer at (702) 293-8420.
Runoff and inflow projections into upper basin reservoirs are provided by the Colorado River Forecasting Service through the National Weather Service’s Colorado Basin River Forecast Center and are as follows in thousand acre-feet (kaf):

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<th>Inflow Forecast (kaf)</th>
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<th>Reserve</th>
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<td>Jun</td>
<td>Jul</td>
<td>Aug</td>
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The 2022 AOP is available online at:
The Draft 2023 AOP is available online at:
The Interim Guidelines are available online at:
The Colorado River DCPs are available online at:
The 2021 Lower Basin MOU is available online at:
https://www.usbr.gov/lc/region/g4000/2021_MOU.pdf.
The Upper Basin Drought Response Operations Agreement is online at:
The Upper Basin Hydrology Summary is available online at:
# Fontenelle Reservoir

## Operation Plan for Colorado River System Reservoirs

**September 2022 24-Month Study**

### Most Probable Inflow

<table>
<thead>
<tr>
<th>Date</th>
<th>Regulated Inflow (1000 Ac-Ft)</th>
<th>Evap Losses (1000 Ac-Ft)</th>
<th>Power Release (1000 Ac-Ft)</th>
<th>Bypass Release (1000 Ac-Ft)</th>
<th>Total Release (1000 Ac-Ft)</th>
<th>Reservoir Elev End of Month (Ft)</th>
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*Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast*
## Operation Plan for Colorado River System Reservoirs

**September 2022 24-Month Study**

### Most Probable Inflow*

#### Flaming Gorge Reservoir

<table>
<thead>
<tr>
<th>Date</th>
<th>Unreg Inflow (1000 Ac-Ft)</th>
<th>Reg Inflow (1000 Ac-Ft)</th>
<th>Evap Losses (1000 Ac-Ft)</th>
<th>Power Release (1000 Ac-Ft)</th>
<th>Bypass Release (1000 Ac-Ft)</th>
<th>Total Release (1000 Ac-Ft)</th>
<th>Bank Storage (1000 Ac-Ft)</th>
<th>Reservoir Elev End of Month (Ft)</th>
<th>Live Storage (1000 Ac-Ft)</th>
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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

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* Model Run ID: 3201  Processed On: 9/14/2022  11:03:02AM
# Operation Plan for Colorado River System Reservoirs

## September 2022 24-Month Study

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM
## Operation Plan for Colorado River System Reservoirs

### September 2022 24-Month Study

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
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## Most Probable Inflow*

### September 2022 24-Month Study

**Crystal Reservoir**

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

**Model Run ID:** 3201  **Processed On:** 9/14/2022 11:03:02AM
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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201  Processed On: 9/14/2022  11:03:02AM
## Operation Plan for Colorado River System Reservoirs

### September 2022 24-Month Study

#### Most Probable Inflow*

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

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**Model Run ID: 3201**

**Processed On: 9/14/2022 11:03:02AM**
**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 2022 24-Month Study**

**Most Probable Inflow**

**Lake Powell**

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM
# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 2022 24-Month Study

### Hoover Dam - Lake Mead

#### Most Probable Inflow*

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

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**Model Run ID:** 3201  **Processed On:** 9/14/2022 11:03:02AM
## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

### September 2022 24-Month Study

**Most Probable Inflow**

**Davis Dam - Lake Mohave**

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM
## Operation Plan for Colorado River System Reservoirs

September 2022 24-Month Study

Most Probable Inflow* Parker Dam - Lake Havasu

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201 Processed On: 9/14/2022 11:03:02AM
## Operation Plan for Colorado River System Reservoirs

### September 2022 24-Month Study

**Hoover Dam - Lake Mead**

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

**Model Run ID:** 3201

**Processed On:** 9/14/2022 11:03:02AM
## Davis Dam - Lake Mohave

### Operation Plan for Colorado River System Reservoirs

#### September 2022 24-Month Study

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM
### Parker Dam - Lake Havasu

#### Operation Plan for Colorado River System Reservoirs

**September 2022 24-Month Study**

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*Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast*

Model Run ID: 3201

Processed On: 9/14/2022 11:03:02AM
**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 2022 24-Month Study**

Most Probable Inflow*

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

Model Run ID: 3201
Processed On: 9/14/2022 11:03:02AM
**Most Probable Inflow**

September 2022 24-Month Study

Flood Control Criteria - Beginning of Month Conditions

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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast