

April 24-Month Study
Date: April 20th 2023

From: Water Resources Group, Salt Lake City
To: All Colorado River Annual Operating Plan (AOP) Recipients

Current Reservoir Status

	March Inflow (unregulated) (acre-feet)	Percent of Average (percent)	April 19 Midnight Elevation (feet)	April 19, Midnight Reservoir Storage (acre-feet)
Fontenelle	29,328	51	6,468.61	106,000
Flaming Gorge	48,568	46	6,008.57	2,539,500
Blue Mesa	24,579	65	7,453.11	326,600
Navajo	71,300	87	6,038.56	1,045,600
Powell	572,764	96	3,522.89	5,424,300

Expected Operations

The operation of Lake Powell and Lake Mead in the April 2023 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 2023 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2022 24-Month Study projections of the January 1, 2023, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2023.

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 operation in WY 2023 is governed by the Lower Elevation Balancing Tier with an initial projected WY release volume of 7.00 million acre-feet (maf). Based on hydrologic conditions as of April 2023, in which the most probable inflow into Lake Powell is projected to be 11.30 maf (177 percent of average) during the 2023 April-July runoff period, Reclamation has determined that conditions are sufficient to release up to 9.50 maf from Lake Powell in WY 2023 consistent with Section 6.D.1 of the Interim Guidelines. In addition, Reclamation has removed the operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action,¹ such that balancing releases are based on physical elevations of Lake Powell and Lake Mead, but could be as low as 7.00 maf consistent with the Interim Guidelines and to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023. Further, Lower Basin projections for Lake Mead take into consideration: updated water orders to reflect additional conservation efforts; new completed system conservation agreements under the Lower Colorado River Basin System Conservation and Efficiency Program (LC Conservation Program); and updated Lower Basin tributary inflow projections (reflecting current conditions) above Lake Mead, for the Bill Williams and for the Gila River.

Consistent with this operating approach and based on the most probable inflow forecast, the April 2023 24-Month Study projects a balancing release of 9.50 maf from Lake Powell in WY 2023; however, the actual release in WY 2023 will range between 7.00 and 9.50 maf and will depend on actual hydrology and reservoir conditions at Lake Powell and Lake Mead during the remainder of the water year. The projected

release from Lake Powell in WY 2023 will be updated each month throughout the remainder of the water year. The modeling approach for 2024 and beyond will be consistent with the Interim Guidelines, based on projected physical elevations at Lake Powell and Lake Mead, and assume the 0.480 maf retained in Lake Powell under the May 2022 action was released as part of the WY 2023 balancing release only if the release volume is 7.48 maf or greater.

The 2022 Drought Response Operations Agreement (DROA) Plan² for May 2022 through April 2023 has been amended to suspend 2022 DROA Plan releases for the remainder of April 2023. The suspension of 2022 DROA Plan releases occurred on March 7, 2023. A total DROA release of approximately 463 thousand acre-feet (kaf) occurred under the 2022 DROA Plan. Reclamation will attempt to maximize DROA recovery in the Upper Initial Units in WY 2023 and through April 2024. Reclamation will provide monthly DROA accounting, including DROA releases and recovery, which can be found online at:

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Reclamation continues to consult with the DROA Parties and to consult with the Lower Division States and others in accordance with the DROA on the implementation of the Drought Response Operations Plans and consideration of 2023 DROA Plan.

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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 WY 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 (CY) 2023. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement will govern the operation of Lake Mead for CY 2023. 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 and the LC Conservation Program will also take place in CY 2023.

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 March was 0.573 maf or 96 percent of the 30-year average from 1991 to 2020. The April 2023 unregulated inflow forecast for Lake Powell is 1.300 maf or 144 percent of the 30-year average. The 2023 April through July unregulated inflow forecast is 11.30 maf or 177 percent of average.

The 2023 AOP is available online at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP23.pdf>.

The Interim Guidelines are available online at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The Colorado River DCPs are available online at:

<https://www.usbr.gov/dcp/finaldocs.html>.

The 2021 Lower Basin MOU is available online at:

https://www.usbr.gov/lc/region/g4000/2021_MOU.pdf.

The Upper Basin DROA is online at:

<https://www.usbr.gov/dcp/droa.html>.

The Upper Basin Hydrology Summary is available online at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_03_ucb.pdf.

Fontenelle Reservoir

As of April 10, 2023, the Fontenelle Reservoir pool elevation is 6468.04 feet, which amounts to 31 percent of live storage capacity. Inflows for the month of March totaled approximately 29,238 acre-feet (af) or 51 percent of average. Low March inflows occurred due to lower than average March temperatures.

Winter release has been set at 950 cfs to meet spring elevation targets and are forecasted to remain at this level through winter, subject to hydrology. Ice along the Green River has not thawed at the usual rate so far this spring. Releases from the dam are scheduled to increase to approximately 1,500 cfs once the ice has thawed, which is expected to occur near the end of April. Releases from the dam will increase throughout spring to meet elevation targets, as subject to hydrology.

The April final forecast for unregulated inflows into Fontenelle for the next three months projects average conditions. April, May, and June Most Probable inflow volumes amount to 65,000 af (77 percent of average), 180,000 af (103 percent of average), and 365,000 af (119 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for April 27, 2023 at 10:00 a.m. at Green River, WY. This meeting will be held in person at the Joint Powers Water Board (2 Telephone Canyon Rd, Green River, WY 82935) as well as virtually. Please contact Dale Hamilton at dthamilton@usbr.gov for a virtual meeting invite.

Prior Fontenelle Working Group meeting minutes are available online on USBR's website at <https://www.usbr.gov/uc/water/crsp/wg/ft/ftcurrnt.html>. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

Flaming Gorge

As of April 13, 2023 (end of day), Flaming Gorge Reservoir pool elevation is 6007.39 feet, which amounts to 68 percent of live storage capacity. Unregulated inflow volume for the month of March is approximately 49,000 acre-feet (af), which is 46 percent of the average March unregulated inflow volume. The current average daily release is 800 cfs.

The 2022 Drought Response Operations Agreement (DROA) Plan for May 2022 through April 2023 has been amended to suspend 2022 DROA Plan releases for the remainder of March and April 2023. The suspension of 2022 DROA Plan releases occurred on March 6, 2023. A total DROA release of approximately 463 kaf occurred under the 2022 DROA Plan. The approved Amendment is posted at <https://www.usbr.gov/dcp/droa.html>. The 2023 DROA Plan is under discussion and proposals developed will be provided through processes outlined in the DROA Framework.

A new operation will be finalized in early May 2023, and this will contain an operation plan from May 2023 through April 2024.

The April forecast for unregulated inflows into Flaming Gorge for the next three months projects above average. April, May, and June forecasted unregulated inflow volumes amount to 170,000 af (136 percent of average), 345,000 af (139 percent of average), and 475,000 af (122 percent of average), respectively.

The April water supply forecast of the April through July unregulated inflow volume into Flaming Gorge Reservoir is 1,200,000 acre-feet (124% of average). Current snowpack is 126% of median for the Upper Green Basin.

Reclamation is planning to hold Flaming Gorge Working Group meetings in March (occurred March 16, 2023) and April similar to the last couple of years. The April meeting will be held on April 20, 2023 at 10:00 a.m. at the Carbon County Event Center Price, UT (450 S Fairgrounds Way, Price, Utah) and will also be held virtually. The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stakeholders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. Meeting notes from past Working Group meetings are posted on the Working Group webpage. For more information on this group and these meetings please contact Dale Hamilton at 801-379-1186.

Aspinall Unit Reservoirs

As of April 10, 2023, releases from Crystal Dam are approximately 700 cfs. Flows of the Gunnison River in the Black Canyon are being maintained at about 360 cfs while the Gunnison Tunnel is diverting 320 cfs. Flows in the Whitewater Reach of the Gunnison River are about 1,680 cfs.

The unregulated inflow volume in March to Blue Mesa was 24,600 af (65 percent of average). Unregulated Inflow volumes forecasted for Blue Mesa for the next three months (April, May and June) are projected to be: 60,000 af (77 percent of average), 265,000 af (132 percent of average) and 395,000 af (158 percent of average), respectively. The April 24-Month Study will be reflective of these new forecasted inflows.

The forecasted 2023 water year unregulated inflow volume to Blue Mesa is projected to be 1,101,000 af (122 percent of average). The water supply period (April-July) for 2023 is forecasted to be 850,000 af of unregulated inflow (134 percent of average).

Blue Mesa elevation has been steady over the past month and as of April 10, 2022, was 7,448.48 feet above sea level corresponding to a live storage of 301,040 acre-feet which is 36 percent of capacity. By the end of water year 2023 (September 30, 2023) Blue Mesa elevation is projected to be approximately 7,502 feet with about 675,000 acre-feet of storage which will be 82 percent of capacity.

The Aspinall Unit Operations Group is an open public forum for information exchange between Reclamation and the stakeholders of the Aspinall Unit. The public is encouraged to attend and comments on the operations and plans presented by Reclamation at these meetings. Meeting notes from past working Group meetings are posted on the Operations Group webpage. For more information on this group and these meetings please contact Erik Knight in the Grand Junction Area Office at (970) 248-0629.

The next Operations Group meeting will be held April 20, 2023 at 1:00 p.m., in person in Grand Junction Colorado and also broadcast virtually. The in-person meeting will be at Reclamation's Western Colorado

Area Office located at located at 445 West Gunnison Avenue in Grand Junction, Colorado. Contact Erik Knight in the Grand Junction Area Office at (970) 248-0629 to get more information regarding this Operation Group meeting.

Navajo Reservoir

On April 9th, the daily average release rate from Navajo Dam was 300 cfs while reservoir inflow was averaging 2,120 cfs. The water surface elevation was 6029.33 feet above sea level. At this elevation the live storage is 0.953 maf (58 percent of live storage capacity) and the active storage is 0.327 maf (32 percent of active storage capacity). An average of 8 cfs is currently being diverted to Cutter Reservoir for the Navajo Indian Irrigation Project (NIIP). Approximately 70 cfs is being diverted to the San Juan-Chama Project (SJC) above Navajo Reservoir.

Releases from Navajo Dam are made for authorized purposes of the Navajo Unit and are pursuant to the Record of Decision for the Navajo Reservoir Operations. Releases target the San Juan River Recovery Implementation Program's (SJ RIP) recommended downstream baseflow range of 500 cfs to 1,000 cfs through the critical habitat reach of the San Juan River (Farmington, NM to Lake Powell).

Preliminary modified unregulated inflow (MUI) into Navajo in March was 71.3 kaf, which was 87 percent of average for the month. The release averaged 300 cfs and totaled 17.6 kaf, which was 38 percent of average for the month.

The most probable MUI forecast for April May and June, is 160 kaf (109 percent of average), 400 kaf (164 percent of average), and 320 kaf (169 percent of average), respectively.

The official April-July forecasts are as follows:

MIN: 800 kaf (127 percent of average, an increase of 50 kaf since the mid-March Forecast)

MOST: 945 kaf (150 percent of average, a decrease of 15 kaf since the mid-March Forecast)

MAX: 1,170 kaf (186 percent of average, a decrease of 30 kaf since the mid-March Forecast)

It is currently projected that there will be some water available for a spring flushing operation, most likely occurring in late May and early June. Further details will follow as the forecast evolves.

Reclamation conducts Public Operations Meetings three times per year to gather input for determining upcoming operations for Navajo Reservoir. Input from individuals, organizations, and agencies along with other factors such as weather, water rights, endangered species requirements, flood control, hydro power, recreation, fish and wildlife management, and reservoir levels, will be considered in the development of these reservoir operation plans. In addition, the meetings are used to coordinate activities and exchange information among agencies, water users, and other interested parties concerning the San Juan River and Navajo Reservoir. The next meeting will be held on Tuesday, April 18th at 1:00 PM. This meeting is open to the public, and will be held at the Farmington Civic Center, 200 West Arrington, in Farmington, New Mexico (subject to change based on guidance at the time). The meeting will also have a virtual option.

Glen Canyon Dam / Lake Powell

Current Status

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 operation in WY 2023 is

governed by the Lower Elevation Balancing Tier with an initial projected WY release volume of 7.00 million acre-feet (maf). Based on hydrologic conditions as of April 2023, in which the most probable inflow into Lake Powell is projected to be 11.30 maf (177 percent of average) during the 2023 April-July runoff period, Reclamation has determined that conditions are sufficient to release up to 9.50 maf from Lake Powell in WY 2023 consistent with Section 6.D.1 of the Interim Guidelines. In addition, Reclamation has removed the operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action, such that balancing releases are based on physical elevations of Lake Powell and Lake Mead, but could be as low as 7.00 maf consistent with the Interim Guidelines and to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023.

Consistent with this operating approach and based on the most probable inflow forecast, the April 2023 24-Month Study projects a balancing release of 9.50 maf from Lake Powell in WY 2023; however, the actual release in WY 2023 will range between 7.00 and 9.50 maf and will depend on actual hydrology and reservoir conditions at Lake Powell and Lake Mead during the remainder of the water year. The projected release from Lake Powell in WY 2023 will be updated each month throughout the remainder of the water year. The modeling approach for 2024 and beyond will be consistent with the Interim Guidelines, based on projected physical elevations at Lake Powell and Lake Mead, and assume the 0.480 maf retained in Lake Powell under the May 2022 action was released as part of the WY 2023 balancing release only if the release volume is 7.48 maf or greater.

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, 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 unregulated inflow volume to Lake Powell during March was 573 thousand acre-feet (kaf) (96 percent of average). The release volume from Glen Canyon Dam in March was 486 kaf. The end of March elevation and storage of Lake Powell were 3,522.02 feet (178 feet from full pool) and 5.37 million acre-feet (maf) (23 percent of live capacity), respectively.

Current Operations

Reclamation will release a high flow at Glen Canyon Dam during a 72-hour experiment between April 24-27. Water releases from the dam during the 3-day spring flow experiment will be as high as 39,500 cubic feet per second (cfs). High sediment loads in Marble Canyon and favorable hydrology conditions are present to support a spring experiment based on the analysis considered under the Long-Term Experimental and Management Plan, which allows for high-volume dam releases for sediment conservation. Five HFEs have been conducted since the High Flow Experiment (HFE) Protocol was initiated in 2012. Those HFEs occurred in November 2012, 2013, 2014, 2016 and 2018. This will be the first spring high flow implemented under the protocol.

This experiment will mobilize and redeposit sand to rebuild beaches throughout the Grand Canyon. Rebuilding beaches and sandbars in the Grand Canyon also protects archaeological sites and provides other resource benefits. High flows like this one are experimental in nature and are designed to achieve a better understanding of how and when to incorporate them into future dam operations in a manner that maintains or improves beaches, sandbars, and associated habitats. The Grand Canyon Monitoring and

Research Center and the National Park Service will monitor effects to many resources, including but not limited to beaches, fisheries, aquatic insects, and archaeological sites.

April flows will be much higher and will continue for the remainder of the water year. Because of the increased snowpack throughout March in the upper basin and subsequent inflow projections increasing from 125% of average to 177% of average over the last four weeks, Reclamation recently increased the release volume from Glen Canyon Dam to 910,000 acre-feet. Hourly releases during April are scheduled to fluctuate from a low of approximately 8,033 cfs during the early morning hours to a high of 14,631 cfs during the afternoon and evening hours in days preceding and following the HFE. Flow experiments like this one at Glen Canyon Dam do not change the total annual volume of water released from Lake Powell to Lake Mead. This experiment will only rearrange water released in April and will not affect volumes released in other months with the May monthly release volume between 840 to 1,088 kaf. The 72-hour HFE will be scheduled as follows:

- Ramp-up from base releases at 4,000 cfs/hr at approximately 2:00 AM on Monday, April 24, 2023 (all times Mountain Standard Time and not hour ending) until reaching powerplant capacity (~25,500 cfs)
- Open first bypass tube at 6:00 AM on April 24
- Ramp-up from powerplant capacity to full bypass (~39,500 cfs) at one full bypass tube (~3,500 cfs) per hour in 4 hrs reaching total releases at 9:00 AM on April 24
- Stay at peak release (~39,500 cfs) for 72 hrs
- Ramp-down from peak release to base releases at beginning at 9:00 AM on April 27 using half bypass of 1,750 cfs/hr until reaching powerplant capacity and then decreasing at 2,500 cfs/hr

Due to the high flows being released during the experiment, sudden changes to river conditions will occur and recreationists along the Colorado River between Glen Canyon and Lake Mead are urged to use caution during implementation. Visitors to the river are highly encouraged to view visit the National Parks Service website for additional safety information and flow release patterns:

<https://www.nps.gov/grca/learn/nature/hfe-23.htm>.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 megawatts (MW) of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of about 1,300 cfs above or below the hourly scheduled release rate. Under normal system conditions, fluctuations for regulation are typically short lived and generally balance out over the hour with minimal or no noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled releases when called upon to respond to unscheduled power outages or power system emergencies. Depending on the severity of the system emergency, the response from Glen Canyon Dam can be significant, within the full range of the operating capacity of the power plant for as long as is necessary to maintain balance in the transmission system. Glen Canyon Dam currently maintains 30 MW (approximately 1,300 cfs) of generation capacity in reserve in order to respond to a system emergency even when generation rates are already high. System emergencies occur infrequently and typically require small responses from Glen Canyon Dam. However, these responses can have a noticeable impact on the river downstream of Glen Canyon Dam.

Inflow Forecasts and Model Projections

The forecast for water year 2023 unregulated inflow to Lake Powell, issued on April 5, 2023, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume in water year 2023 will be 14.47 maf (151 percent of average).

In addition to the April 2023 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted model runs in April to determine a possible range of reservoir elevations. The April 2023 24-Month Study probable most, maximum and minimum probable inflow scenarios were used to determine the range of probable outcomes. The probable minimum and probable maximum model runs are conducted simultaneously in January, April, August, and October, or when necessary to incorporate changing conditions. The probable minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90 percent of the time. The most probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50 percent of the time. The probable maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10 percent of the time. There is approximately an 80 percent probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports. The DROA coordination will continue until either (i) the minimum probable projected elevation remains above 3,525 feet for 24 months or (ii) the process moves to the next step when the most probable projected elevation indicates Powell elevations below 3,525 feet and a Drought Response Operations Plan is developed. This 2022 Plan is described above and available for review here:

<https://www.usbr.gov/dcp/droa.html>.

The April forecast for water year 2023 ranges from a minimum probable of 12.27 maf (128 percent of average) to a forecasted maximum probable of 17.86 maf (186 percent of average) with the most probable forecast for water year 2023 of 14.47 maf (151 percent of average). There is a 10 percent chance that inflows could be higher than the current maximum probable forecast and a 10 percent chance that inflows could be lower than the minimum probable forecast.

Based on the current forecast for water year 2023 of 14.47 maf unregulated, the April 24-Month Study projects Lake Powell elevation will end water year 2023 near 3575.05 feet with approximately 9.02 maf in storage (39 percent of capacity). Note that projections of elevation and storage for water year 2023 have significant uncertainty at this point in the season. Projections of end of water year 2023 elevation using the April minimum and maximum inflow forecast results are 3,564.55 feet and 3,606.71 feet, respectively. The annual release volume from Lake Powell during water year 2023 will be 9.5 maf under the Lower Elevation Balancing Tier and will balance the contents between Powell and Mead with annual release volumes from Glen Canyon Dam between 7.00 maf and 9.50 maf as determined under Section 6.D.1 and 7.D of the Interim Guidelines as determined by the Department of the Interior as described above.

Upper Colorado River Basin Hydrology

Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. The 30-year average was updated in October 2022 from 1981 through 2010 to 1991 through 2020. Shifting the period of record decreased the average unregulated inflow 1.20 maf. The period 2000-2022 is the lowest 23-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.29 maf, or 93 percent of the 30-year average (1991-2020). (For comparison, the 1991-2020 total water year average is 9.60 maf.) The unregulated inflow during the 2000-2022 period has ranged from a low of 2.64 maf (28 percent of average) in water year 2002 to a high of 15.97 maf (166 percent of average) in water

year 2011. In water year 2021 unregulated inflow volume to Lake Powell was 3.50 maf (36 percent of average), the second driest year on record above 2002. Under the current most probable forecast, the total water year 2023 unregulated inflow to Lake Powell is projected to be 14.47 maf (151 percent of average).

At the beginning of water year 2023, total system storage in the Colorado River Basin was 19.54 maf (33 percent of 58.48 maf total system capacity). This is a decrease of 3.33 maf over the total storage at the beginning of water year 2022 when total system storage was 22.87 maf (39 percent of capacity). Since the beginning of water year 2000, total Colorado Basin storage has experienced year to year increases and decreases in response to wet and dry hydrology, ranging from a high of 94 percent of capacity at the beginning of 2000 to the now current level of 33 percent of capacity at the beginning of water year 2023. Based on current inflow forecasts, the current projected end of water year 2023 total Colorado Basin reservoir storage is approximately 25.53 maf (44 percent of total system capacity). The actual end of water year 2023 system storage may vary from this projection, primarily due to uncertainty regarding this season's runoff and reservoir inflow.



To: All Annual Operating Plan Recipients

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From: Alex Pivarnik
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Subject: April 2023 Most Probable 24-Month Study

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¹ For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220503-2022DROA-GlenCanyonDamOperationsDecisionLetter-508-DOI.pdf>.

² For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220429-2022DroughtResponseOperationsPlan-ApprovalMemo-508-DOI.pdf>.

Reclamation will provide monthly DROA accounting, including DROA releases and recovery, which can be found online at:

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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 March was 0.573 maf or 96 percent of the 30-year average from 1991 to 2020. The April 2023 unregulated inflow forecast for Lake Powell is 1.300 maf or 144 percent of the 30-year average. The 2023 April through July unregulated inflow forecast is 11.30 maf or 177 percent of average.

In this study, the CY 2023 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 0.857 maf. The CY 2023 diversion for the Central Arizona Project (CAP) is projected to be 0.899 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.210 maf for CY 2023.

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 Power, Operations, and Maintenance 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 Cheri Woodward at (702) 293-8101 or Rebecca Rogers at (702) 293-8091.

Runoff and inflow projections into upper basin reservoirs are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows:

Reservoir	Observed Inflow (kaf)				%Avg	Inflow Forecast (kaf)				
	Dec	Jan	Feb	Mar		Apr	May	Jun	Apr-Jul	%Avg
Lake Powell	281	361	270	573	96	1300	4000	4600	11300	177
Fontenelle	28	32	28	29	51	65	180	365	800	109
Flaming Gorge	26	38	33	49	46	170	345	475	1200	124
Blue Mesa	24	24	19.9	25	66	60	265	395	850	134
Morrow Point	26	26	21	26	64	65	295	420	915	133
Crystal	28	28	23	29	63	75	335	475	1030	134
Taylor Park	4.6	4.4	3.6	4.2	91	7	34	56	120	128
Vallecito	5.1	5.4	4.5	6.5	71	17	100	110	255	144
Navajo	17.5	20	17.8	71	87	160	400	320	945	150
Lemon	0.89	0.9	0.74	0.97	59	4	28	38	77	160
McPhee	3.4	4.1	3.2	9.1	48	95	240	150	515	202
Ridgway	3.9	3.9	3.2	4.7	84	8	28	50	112	122
Deerlodge	22	23	18.6	32	42	250	920	765	2080	175
Durango	10.9	10.3	8.4	10.9	80	45	215	245	590	153

The 2023 AOP is available online at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP23.pdf>.

The Interim Guidelines are available online at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The Colorado River DCPs are available online at:

<https://www.usbr.gov/dcp/finaldocs.html>.

The 2021 Lower Basin MOU is available online at:

https://www.usbr.gov/lc/region/g4000/2021_MOU.pdf.

The Upper Basin DROA is online at:

<https://www.usbr.gov/dcp/droa.html>.

The Upper Basin Hydrology Summary is available online at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_04_ucb.pdf.

Information on the LC Conservation Program is available online at:

<https://www.usbr.gov/lc/LCBConservation.html>.



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	50	1	5	44	49	6478.74	152
H	May 2022	63	1	47	8	55	6479.96	158
I	Jun 2022	241	2	82	0	82	6503.59	315
S	Jul 2022	102	3	83	11	93	6504.34	321
T	Aug 2022	56	2	67	1	68	6502.43	306
O	Sep 2022	29	2	61	0	61	6498.08	274
	WY 2022	744	15	617	67	685		
R	Oct 2022	40	1	22	39	61	6494.58	249
I	Nov 2022	33	1	10	48	58	6490.90	224
C	Dec 2022	28	1	56	2	58	6486.14	194
A	Jan 2023	32	1	58	0	59	6481.53	167
L	Feb 2023	28	0	10	43	53	6476.59	141
*	Mar 2023	29	0	55	3	58	6470.02	113
	Apr 2023	65	1	63	0	63	6470.36	114
	May 2023	180	1	99	15	114	6483.63	179
	Jun 2023	365	2	103	155	258	6499.37	284
	Jul 2023	190	3	102	47	149	6504.49	322
	Aug 2023	65	2	92	0	92	6500.61	293
	Sep 2023	40	2	72	0	72	6495.97	259
	WY 2023	1095	15	742	353	1095		
	Oct 2023	45	1	55	0	55	6494.33	248
	Nov 2023	42	1	62	0	62	6491.23	226
	Dec 2023	32	1	71	0	71	6485.06	187
	Jan 2024	31	1	71	0	71	6477.71	147
	Feb 2024	29	0	66	0	66	6469.18	109
	Mar 2024	51	0	50	0	50	6469.34	110
	Apr 2024	77	1	34	42	76	6469.46	110
	May 2024	166	1	92	0	92	6484.35	183
	Jun 2024	301	2	103	95	198	6499.39	284
	Jul 2024	146	3	102	10	112	6503.54	315
	Aug 2024	59	2	79	0	79	6500.58	293
	Sep 2024	39	2	71	0	71	6495.88	258
	WY 2024	1018	14	857	147	1004		
	Oct 2024	45	1	55	0	55	6494.25	247
	Nov 2024	42	1	60	0	60	6491.46	228
	Dec 2024	32	1	68	0	68	6485.82	192
	Jan 2025	31	1	68	0	68	6479.24	155
	Feb 2025	29	0	61	0	61	6472.28	122
	Mar 2025	51	0	68	0	68	6468.07	105

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

Model Run ID: 3221

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Flaming Gorge Reservoir

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Apr 2022	66	62	5	51	0	51	118	6018.81	2938	179
H	May 2022	88	88	7	139	48	187	114	6015.77	2769	570
I	Jun 2022	274	113	9	110	12	121	113	6015.25	2752	465
S	Jul 2022	125	110	11	79	0	79	106	6016.09	2780	137
T	Aug 2022	58	70	11	105	0	105	104	6014.73	2735	124
O	Sep 2022	32	63	9	112	0	112	102	6013.01	2680	125
	WY 2022	897	837	70	927	60	987			2138	
R	Oct 2022	41	65	6	111	0	111	100	6011.45	2630	142
I	Nov 2022	40	63	3	102	0	102	98	6010.19	2590	132
C	Dec 2022	26	57	2	107	0	107	96	6008.59	2540	138
A	Jan 2023	38	65	2	108	0	108	95	6007.19	2497	143
L	Feb 2023	33	58	2	98	0	98	93	6005.89	2457	371
*	Mar 2023	49	77	3	61	5	66	93	6006.15	2465	119
	Apr 2023	170	168	4	48	0	48	98	6009.78	2577	298
	May 2023	345	279	7	49	0	49	106	6016.46	2792	969
	Jun 2023	475	368	9	48	0	48	118	6025.22	3091	813
	Jul 2023	210	169	13	63	0	63	122	6027.73	3180	208
	Aug 2023	75	102	12	89	0	89	122	6027.76	3181	119
	Sep 2023	45	77	10	97	0	97	121	6026.96	3152	117
	WY 2023	1548	1548	72	980	5	984			3569	
	Oct 2023	52	62	7	63	0	63	121	6026.77	3146	89
	Nov 2023	51	71	3	62	0	62	121	6026.92	3151	97
	Dec 2023	34	73	2	101	0	101	120	6026.10	3122	126
	Jan 2024	42	82	2	101	0	101	119	6025.52	3101	126
	Feb 2024	43	80	2	95	0	95	118	6025.06	3085	120
	Mar 2024	85	84	3	60	0	60	119	6025.64	3106	134
	Apr 2024	111	110	5	58	0	58	121	6026.92	3151	261
	May 2024	239	165	7	221	0	221	118	6025.22	3091	734
	Jun 2024	389	286	10	55	0	55	127	6030.97	3303	422
	Jul 2024	161	127	14	69	0	69	129	6032.06	3345	129
	Aug 2024	66	86	13	103	0	103	127	6031.33	3317	122
	Sep 2024	43	75	11	110	0	110	126	6030.19	3272	123
	WY 2024	1316	1302	79	1099	0	1099			2484	
	Oct 2024	52	62	7	82	0	82	125	6029.53	3247	108
	Nov 2024	50	68	3	86	0	86	124	6028.99	3226	116
	Dec 2024	34	70	2	128	0	128	121	6027.41	3168	153
	Jan 2025	42	79	2	128	0	128	119	6026.03	3119	153
	Feb 2025	43	75	2	116	0	116	118	6024.86	3078	141
	Mar 2025	85	102	3	58	0	58	119	6025.96	3117	132



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Taylor Park Reservoir

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RECLAMATION

		Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2022	8	6	9302.92	59
H	May 2022	27	12	9312.55	74
I	Jun 2022	26	19	9316.61	81
S	Jul 2022	11	15	9314.18	77
T	Aug 2022	8	14	9310.35	70
O	Sep 2022	5	8	9308.87	68
	WY 2022	110	100		
R	Oct 2022	6	6	9308.80	68
I	Nov 2022	4	5	9308.13	67
C	Dec 2022	5	5	9307.68	66
A	Jan 2023	4	5	9307.08	65
L	Feb 2023	4	5	9306.26	64
*	Mar 2023	4	5	9305.50	63
	Apr 2023	7	9	9303.88	61
	May 2023	34	19	9313.60	76
	Jun 2023	56	30	9327.96	102
	Jul 2023	23	26	9326.55	99
	Aug 2023	11	22	9321.02	89
	Sep 2023	7	18	9314.89	78
	WY 2023	165	155		
	Oct 2023	7	13	9311.10	72
	Nov 2023	5	6	9310.51	71
	Dec 2023	4	6	9309.15	69
	Jan 2024	5	6	9308.42	67
	Feb 2024	4	6	9307.41	66
	Mar 2024	5	6	9306.65	65
	Apr 2024	9	12	9304.64	62
	May 2024	26	18	9309.88	70
	Jun 2024	40	27	9317.64	83
	Jul 2024	15	27	9310.51	71
	Aug 2024	8	24	9299.67	55
	Sep 2024	7	18	9290.80	44
	WY 2024	135	169		
	Oct 2024	7	9	9288.99	42
	Nov 2024	5	6	9288.11	41
	Dec 2024	4	6	9286.05	39
	Jan 2025	5	6	9284.91	37
	Feb 2025	4	6	9283.32	36
	Mar 2025	5	6	9282.11	35

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

Model Run ID: 3221

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Blue Mesa Reservoir

— BUREAU OF —
RECLAMATION

Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	62	60	0	44	0	46	7438.94	252
H	May 2022	177	162	1	79	0	79	7454.56	335
I	Jun 2022	133	126	1	69	0	69	7463.76	391
S	Jul 2022	59	63	1	84	0	84	7460.15	368
T	Aug 2022	57	64	1	89	0	89	7455.69	341
O	Sep 2022	31	33	1	55	28	82	7446.72	292
	WY 2022	661	652	6	566	28	595		
R	Oct 2022	32	32	0	0	58	58	7441.74	266
I	Nov 2022	26	27	0	1	10	11	7444.87	282
C	Dec 2022	24	25	0	6	10	17	7446.44	290
A	Jan 2023	24	25	0	20	0	20	7447.43	295
L	Feb 2023	20	21	0	20	0	20	7447.61	296
*	Mar 2023	25	26	0	19	0	19	7448.79	303
	Apr 2023	60	62	1	37	0	37	7453.30	328
	May 2023	265	250	1	108	0	108	7475.39	469
	Jun 2023	395	369	1	159	0	159	7502.24	677
	Jul 2023	130	133	1	105	0	105	7505.33	703
	Aug 2023	64	75	1	92	0	92	7503.19	685
	Sep 2023	36	47	1	27	63	89	7497.97	641
	WY 2023	1101	1091	7	593	141	734		
	Oct 2023	36	42	1	64	0	64	7495.25	619
	Nov 2023	31	32	0	36	0	36	7494.74	615
	Dec 2023	26	28	0	49	0	49	7492.06	594
	Jan 2024	25	26	0	49	0	49	7489.08	570
	Feb 2024	23	25	0	46	0	46	7486.29	549
	Mar 2024	38	39	0	47	0	47	7485.15	540
	Apr 2024	78	81	1	46	0	46	7489.60	575
	May 2024	204	196	1	80	0	80	7503.70	689
	Jun 2024	251	238	1	132	0	132	7515.62	793
	Jul 2024	86	98	2	108	0	108	7514.32	782
	Aug 2024	55	71	1	112	0	112	7509.55	739
	Sep 2024	35	46	1	103	0	103	7502.76	681
	WY 2024	888	922	9	874	0	874		
	Oct 2024	36	38	1	93	0	93	7496.02	626
	Nov 2024	31	32	0	37	0	37	7495.31	620
	Dec 2024	26	28	0	56	0	56	7491.86	592
	Jan 2025	25	26	0	49	0	49	7488.87	569
	Feb 2025	23	25	0	44	0	44	7486.32	549
	Mar 2025	38	39	0	39	0	39	7486.22	548

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Morrow Point Reservoir

— BUREAU OF —
RECLAMATION

Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	65	46	3	50	47	0	47	7153.31	112
H	May 2022	186	79	9	88	89	0	89	7152.08	111
I	Jun 2022	134	69	1	70	71	0	71	7150.86	110
S	Jul 2022	60	84	1	85	84	0	84	7152.31	111
T	Aug 2022	58	89	1	90	90	0	90	7152.25	111
O	Sep 2022	31	82	1	83	78	0	78	7157.81	115
	WY 2022	685	595	24	619	614	0	614		
R	Oct 2022	33	58	1	59	60	0	60	7156.10	114
I	Nov 2022	27	11	1	12	21	0	21	7143.98	104
C	Dec 2022	26	17	2	18	20	0	20	7141.82	103
A	Jan 2023	26	20	2	21	20	0	20	7144.03	105
L	Feb 2023	21	20	1	21	18	0	18	7148.07	108
*	Mar 2023	26	19	2	21	19	0	19	7149.91	109
	Apr 2023	65	37	5	42	39	0	39	7153.73	112
	May 2023	295	108	30	138	138	0	138	7153.73	112
	Jun 2023	420	159	25	184	184	0	184	7153.72	112
	Jul 2023	135	105	5	110	110	0	110	7153.73	112
	Aug 2023	67	92	3	95	94	0	94	7153.73	112
	Sep 2023	38	89	2	91	91	0	91	7153.73	112
	WY 2023	1179	734	78	812	815	0	815		
	Oct 2023	37	64	1	65	65	0	65	7153.73	112
	Nov 2023	33	36	2	38	38	0	38	7153.73	112
	Dec 2023	27	49	1	50	50	0	50	7153.73	112
	Jan 2024	26	49	1	50	50	0	50	7153.73	112
	Feb 2024	25	46	2	48	48	0	48	7153.73	112
	Mar 2024	40	47	2	49	49	0	49	7153.73	112
	Apr 2024	89	46	11	57	57	0	57	7153.73	112
	May 2024	226	80	22	102	102	0	102	7153.73	112
	Jun 2024	265	132	14	146	146	0	146	7153.72	112
	Jul 2024	90	108	4	112	112	0	112	7153.73	112
	Aug 2024	56	112	1	113	113	0	113	7153.73	112
	Sep 2024	36	103	1	104	104	0	104	7153.73	112
	WY 2024	950	874	62	936	935	0	935		
	Oct 2024	37	93	1	94	94	0	94	7153.73	112
	Nov 2024	32	37	1	38	38	0	38	7153.73	112
	Dec 2024	27	56	1	57	56	0	56	7153.73	112
	Jan 2025	26	49	1	50	50	0	50	7153.73	112
	Feb 2025	25	44	2	46	46	0	46	7153.73	112
	Mar 2025	40	39	2	41	41	0	41	7153.73	112



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Crystal Reservoir

— BUREAU OF —
RECLAMATION

	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)	
Date												
*	Apr 2022	73	47	8	54	54	1	54	6752.33	17	31	24
H	May 2022	203	89	17	105	92	13	106	6751.40	16	59	48
I	Jun 2022	145	71	10	82	80	2	81	6752.67	17	62	21
S	Jul 2022	64	84	5	89	90	0	90	6747.68	15	65	28
T	Aug 2022	62	90	4	94	92	0	93	6751.52	17	66	31
O	Sep 2022	33	78	2	80	69	12	80	6750.17	16	62	22
	WY 2022	755	614	70	684	622	62	684		393	295	
R	Oct 2022	36	60	3	63	53	10	63	6751.29	16	41	21
I	Nov 2022	29	21	2	23	21	2	23	6752.92	17	0	21
C	Dec 2022	28	20	2	22	22	0	22	6751.64	17	2	21
A	Jan 2023	28	20	2	22	22	0	22	6751.37	16	2	21
L	Feb 2023	23	18	2	20	4	16	20	6751.71	17	1	19
*	Mar 2023	29	19	2	22	0	22	22	6751.16	16	2	21
	Apr 2023	75	39	10	49	0	48	48	6753.04	17	42	6
	May 2023	335	138	40	178	134	44	178	6753.04	17	62	116
	Jun 2023	475	184	55	239	130	109	239	6753.03	17	61	178
	Jul 2023	145	110	10	120	120	0	120	6753.04	17	65	55
	Aug 2023	71	94	4	98	98	0	98	6753.04	17	65	33
	Sep 2023	42	91	4	95	95	0	95	6753.04	17	55	40
	WY 2023	1317	815	137	952	700	251	951		398	554	
	Oct 2023	43	65	6	71	52	19	71	6753.04	17	55	16
	Nov 2023	37	38	4	42	42	0	42	6753.04	17	0	42
	Dec 2023	32	50	5	55	55	0	55	6753.04	17	0	55
	Jan 2024	31	50	5	55	55	0	55	6753.04	17	0	55
	Feb 2024	29	48	4	52	52	0	52	6753.04	17	0	52
	Mar 2024	46	49	6	55	55	0	55	6753.04	17	5	50
	Apr 2024	100	57	11	68	68	0	68	6753.04	17	42	26
	May 2024	251	102	25	127	127	0	127	6753.04	17	62	65
	Jun 2024	293	146	28	174	130	44	174	6753.03	17	61	113
	Jul 2024	98	112	8	120	120	0	120	6753.04	17	65	55
	Aug 2024	63	113	7	120	120	0	120	6753.04	17	65	55
	Sep 2024	42	104	6	110	110	0	110	6753.04	17	55	55
	WY 2024	1065	935	115	1050	987	63	1049		410	639	
	Oct 2024	43	94	6	100	56	44	100	6753.04	17	55	45
	Nov 2024	37	38	5	43	43	0	43	6753.04	17	0	43
	Dec 2024	32	56	5	61	61	0	61	6753.04	17	0	61
	Jan 2025	31	50	5	55	55	0	55	6753.04	17	0	55
	Feb 2025	29	46	4	50	50	0	50	6753.04	17	0	50
	Mar 2025	46	41	6	47	47	0	47	6753.04	17	5	42

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

Model Run ID: 3221

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Vallecito Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2022	27	2	7644.01
H	May 2022	53	33	7652.10
I	Jun 2022	26	34	7648.50
S	Jul 2022	19	32	7642.57
T	Aug 2022	18	28	7637.64
O	Sep 2022	12	26	7630.15
	WY 2022	185	160	
R	Oct 2022	14	3	7635.84
I	Nov 2022	7	0	7639.00
C	Dec 2022	5	0	7641.15
A	Jan 2023	5	0	7643.44
L	Feb 2023	4	1	7644.74
*	Mar 2023	6	35	7630.44
	Apr 2023	17	31	7621.86
	May 2023	100	58	7644.36
	Jun 2023	110	60	7664.06
	Jul 2023	28	42	7658.71
	Aug 2023	16	38	7649.79
	Sep 2023	14	30	7642.88
	WY 2023	327	299	
	Oct 2023	13	17	7640.86
	Nov 2023	9	2	7644.09
	Dec 2023	7	2	7646.33
	Jan 2024	6	2	7648.08
	Feb 2024	5	2	7649.41
	Mar 2024	10	2	7652.70
	Apr 2024	23	2	7660.88
	May 2024	68	59	7664.07
	Jun 2024	62	62	7663.72
	Jul 2024	21	41	7655.66
	Aug 2024	15	38	7646.10
	Sep 2024	16	29	7639.97
	WY 2024	255	258	
	Oct 2024	13	16	7638.23
	Nov 2024	9	2	7641.58
	Dec 2024	7	2	7643.89
	Jan 2025	6	2	7645.69
	Feb 2025	5	2	7647.09
	Mar 2025	10	2	7650.45

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



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Navajo Reservoir

— BUREAU OF —
RECLAMATION

Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)	
*	Apr 2022	123	17	84	2	17	20	6023.53	898	44
H	May 2022	167	30	114	3	38	18	6029.39	954	104
I	Jun 2022	47	7	50	3	37	24	6027.89	939	61
S	Jul 2022	44	5	54	3	39	35	6025.41	916	55
T	Aug 2022	53	5	56	3	38	30	6023.95	902	49
O	Sep 2022	22	1	35	2	23	40	6020.65	872	56
	WY 2022	574	66	484	20	200	296		595	
R	Oct 2022	44	2	32	1	5	33	6019.84	865	51
I	Nov 2022	23	0	16	1	0	19	6019.52	862	37
C	Dec 2022	17	0	13	0	0	22	6018.45	852	37
A	Jan 2023	20	0	15	0	0	20	6017.85	847	34
L	Feb 2023	18	0	15	1	1	17	6017.38	843	30
*	Mar 2023	71	0	98	1	3	18	6025.86	920	46
	Apr 2023	160	20	153	2	19	18	6037.44	1034	63
	May 2023	400	49	309	3	33	145	6049.12	1161	360
	Jun 2023	320	44	227	4	48	140	6052.11	1196	385
	Jul 2023	65	6	73	4	52	18	6051.93	1194	103
	Aug 2023	30	2	50	3	44	21	6050.32	1175	57
	Sep 2023	26	1	41	3	24	22	6049.61	1167	50
	WY 2023	1195	124	1040	23	230	493		1254	
	Oct 2023	35	2	38	2	9	19	6050.32	1175	42
	Nov 2023	28	1	20	1	0	18	6050.42	1176	36
	Dec 2023	24	0	19	1	0	18	6050.39	1176	33
	Jan 2024	22	0	18	1	0	22	6050.01	1171	35
	Feb 2024	29	1	25	1	0	20	6050.34	1175	32
	Mar 2024	92	10	74	1	6	22	6054.15	1220	45
	Apr 2024	147	18	107	2	21	21	6059.24	1283	72
	May 2024	251	34	208	3	36	174	6058.82	1278	309
	Jun 2024	187	25	163	4	52	139	6056.28	1246	283
	Jul 2024	33	2	51	4	55	25	6053.55	1213	76
	Aug 2024	24	1	45	3	46	30	6050.67	1179	59
	Sep 2024	31	2	43	3	25	21	6050.16	1173	47
	WY 2024	903	96	810	26	250	527		1067	
	Oct 2024	35	2	37	2	9	22	6050.59	1178	45
	Nov 2024	30	1	22	1	0	21	6050.61	1178	39
	Dec 2024	24	0	19	1	0	22	6050.31	1175	37
	Jan 2025	22	0	18	1	0	22	6049.94	1170	35
	Feb 2025	29	1	25	1	0	19	6050.32	1175	31
	Mar 2025	92	10	74	1	5	22	6054.16	1220	45

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Lake Powell

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Apr 2022	594	490	12	502	0	502	3522.77	4517	5791	510
H	May 2022	1382	1212	14	598	0	598	3531.69	4561	6346	599
I	Jun 2022	1284	1198	25	598	0	598	3539.81	4604	6878	595
S	Jul 2022	491	463	28	672	0	672	3536.20	4551	6212	672
T	Aug 2022	368	444	27	713	0	713	3531.69	4529	5938	722
O	Sep 2022	245	420	24	547	0	547	3529.33	4517	5797	562
	WY 2022	6084	6107	203	6999	0	6999			7066	
R	Oct 2022	437	535	17	480	0	480	3529.92	4520	5832	494
I	Nov 2022	349	394	17	498	0	498	3528.02	4511	5720	507
C	Dec 2022	281	358	13	550	0	550	3524.75	4496	5531	560
A	Jan 2023	361	424	4	500	0	501	3523.45	4490	5456	510
L	Feb 2023	270	337	4	480	0	480	3521.04	4479	5320	493
*	Mar 2023	573	552	6	486	0	486	3522.02	4484	5375	500
	Apr 2023	1300	1049	11	910	0	910	3524.10	4493	5493	927
	May 2023	4000	3375	15	1088	0	1088	3557.30	4661	7597	1109
	Jun 2023	4600	3848	31	1118	0	1118	3589.77	4861	10096	1135
	Jul 2023	1400	1240	43	1130	0	1130	3590.50	4866	10159	1145
	Aug 2023	500	579	42	1130	0	1130	3583.90	4822	9610	1144
	Sep 2023	400	526	37	1129	0	1129	3576.50	4775	9018	1145
	WY 2023	14472	13215	237	9500	0	9500			9669	
	Oct 2023	417	450	25	480	0	480	3575.85	4771	8967	496
	Nov 2023	490	497	24	500	0	500	3575.53	4769	8942	505
	Dec 2023	361	446	19	600	0	600	3573.47	4756	8782	603
	Jan 2024	350	433	6	723	0	723	3569.88	4734	8509	727
	Feb 2024	397	464	6	639	0	639	3567.64	4721	8341	650
	Mar 2024	614	544	10	675	0	675	3565.87	4711	8210	689
	Apr 2024	920	749	16	601	0	601	3567.52	4720	8332	618
	May 2024	2060	1911	20	599	0	599	3582.91	4816	9528	620
	Jun 2024	2423	1998	36	628	0	628	3597.46	4915	10764	645
	Jul 2024	711	690	45	709	0	709	3596.79	4910	10705	724
	Aug 2024	371	518	45	758	0	758	3593.79	4889	10442	772
	Sep 2024	316	468	41	568	0	568	3592.28	4879	10311	584
	WY 2024	9430	9168	291	7480	0	7480			7633	
	Oct 2024	417	500	28	643	0	643	3590.44	4866	10153	659
	Nov 2024	450	484	27	642	0	642	3588.41	4852	9983	647
	Dec 2024	361	482	21	715	0	715	3585.59	4834	9748	718
	Jan 2025	350	460	6	857	0	857	3581.00	4804	9375	861
	Feb 2025	397	482	6	758	0	758	3577.72	4783	9114	769
	Mar 2025	614	534	11	801	0	801	3574.43	4762	8856	815

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	502	30	33	1027	17.3	17	1026	522	1054.69	8026
H	May 2022	598	8	40	1083	17.6	25	1075	489	1047.69	7517
I	Jun 2022	598	16	47	889	14.9	29	877	467	1043.02	7187
S	Jul 2022	672	70	45	822	13.4	31	814	458	1040.92	7041
T	Aug 2022	713	183	48	573	9.3	25	567	473	1044.28	7275
O	Sep 2022	547	117	48	539	9.1	21	545	476	1045.03	7328
	WY 2022	6999	787	463	8899		222	8888			
R	Oct 2022	480	94	46	418	6.8	16	434	482	1046.28	7417
I	Nov 2022	498	18	40	713	12.0	8	714	467	1043.02	7187
C	Dec 2022	550	63	32	438	7.1	8	439	475	1044.82	7313
A	Jan 2023	501	103	22	412	6.7	7	413	485	1046.97	7466
L	Feb 2023	480	46	21	494	8.9	8	493	485	1047.02	7469
*	Mar 2023	486	226	23	754	12.3	10	749	481	1046.03	7399
	Apr 2023	910	189	31	837	14.1	20	837	494	1048.80	7597
	May 2023	1088	142	39	983	16.0	25	983	505	1051.17	7767
	Jun 2023	1118	73	49	872	14.7	31	872	519	1054.23	7991
	Jul 2023	1130	55	48	833	13.6	31	833	536	1057.68	8248
	Aug 2023	1130	86	53	777	12.6	30	777	558	1062.09	8582
	Sep 2023	1129	72	53	706	11.9	22	706	583	1067.17	8976
	WY 2023	9500	1166	455	8238		217	8250			
	Oct 2023	480	77	50	481	7.8	14	481	584	1067.31	8987
	Nov 2023	500	63	44	596	10.0	6	596	579	1066.30	8908
	Dec 2023	600	72	36	484	7.9	6	484	588	1068.05	9045
	Jan 2024	723	75	25	591	9.6	10	591	598	1070.10	9207
	Feb 2024	639	71	23	563	9.8	7	563	606	1071.47	9317
	Mar 2024	675	97	25	908	14.8	13	908	595	1069.42	9153
	Apr 2024	601	60	34	1033	17.4	14	1033	569	1064.37	8758
	May 2024	599	37	42	1014	16.5	18	1014	543	1058.99	8346
	Jun 2024	628	22	50	898	15.1	26	898	523	1054.92	8043
	Jul 2024	709	55	47	789	12.8	29	789	517	1053.62	7947
	Aug 2024	758	86	51	751	12.2	31	751	517	1053.75	7956
	Sep 2024	568	72	50	673	11.3	27	673	510	1052.34	7853
	WY 2024	7480	786	478	8781		202	8781			
	Oct 2024	643	77	47	486	7.9	22	486	520	1054.45	8008
	Nov 2024	642	63	42	592	9.9	12	592	524	1055.20	8064
	Dec 2024	715	72	34	524	8.5	8	524	538	1057.99	8271
	Jan 2025	857	75	24	587	9.5	11	587	557	1061.83	8563
	Feb 2025	758	71	22	558	10.1	8	558	571	1064.75	8788
	Mar 2025	801	97	25	903	14.7	15	903	568	1064.21	8745

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	1027	-31	13	975	0	975	16.4	643.08	1701
H	May 2022	1083	-20	14	1041	0	1041	16.9	643.35	1708
I	Jun 2022	889	-30	14	842	0	842	14.1	643.47	1712
S	Jul 2022	822	-26	12	770	0	770	12.5	643.97	1725
T	Aug 2022	573	-13	16	575	0	575	9.3	642.87	1695
O	Sep 2022	539	-6	16	617	0	617	10.4	639.17	1595
	WY 2022	8899	-222	151	8495	0	8495			
R	Oct 2022	418	-2	14	540	0	542	8.8	633.78	1454
I	Nov 2022	713	-15	13	516	0	516	8.7	640.22	1623
C	Dec 2022	438	4	13	436	0	436	7.1	639.97	1617
A	Jan 2023	412	2	9	347	0	347	5.6	642.12	1675
L	Feb 2023	494	-18	8	429	0	444	8.0	643.00	1699
*	Mar 2023	754	-6	10	705	0	705	11.5	644.17	1731
	Apr 2023	837	-14	13	843	0	843	14.2	643.00	1699
	May 2023	983	-13	14	956	0	956	15.6	643.00	1699
	Jun 2023	872	-21	14	837	0	837	14.1	643.00	1699
	Jul 2023	833	-21	12	827	0	827	13.5	642.00	1671
	Aug 2023	777	-17	15	745	0	745	12.1	642.00	1671
	Sep 2023	706	-6	16	738	0	738	12.4	640.01	1617
	WY 2023	8238	-127	152	7919	0	7936			
	Oct 2023	481	-11	14	639	0	639	10.4	633.00	1434
	Nov 2023	596	-16	13	516	0	516	8.7	635.00	1486
	Dec 2023	484	-2	13	352	0	352	5.7	639.51	1604
	Jan 2024	591	-11	9	509	0	509	8.3	641.80	1666
	Feb 2024	563	-13	8	542	0	542	9.4	641.80	1666
	Mar 2024	908	-10	10	853	0	853	13.9	643.05	1700
	Apr 2024	1033	-14	13	1009	0	1009	17.0	643.00	1699
	May 2024	1014	-13	14	987	0	987	16.0	643.00	1699
	Jun 2024	898	-21	14	863	0	863	14.5	643.00	1699
	Jul 2024	789	-21	12	783	0	783	12.7	642.00	1671
	Aug 2024	751	-17	15	719	0	719	11.7	642.00	1671
	Sep 2024	673	-6	16	705	0	705	11.8	640.01	1617
	WY 2024	8781	-154	151	8476	0	8476			
	Oct 2024	486	-11	14	644	0	644	10.5	633.00	1434
	Nov 2024	592	-16	13	512	0	512	8.6	635.00	1486
	Dec 2024	524	-2	13	391	0	391	6.4	639.51	1604
	Jan 2025	587	-11	9	505	0	505	8.2	641.80	1666
	Feb 2025	558	-13	8	538	0	538	9.7	641.80	1666
	Mar 2025	903	-10	10	849	0	849	13.8	643.05	1700



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)	
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	
*	Apr 2022	975	6	11	737	12.4	100	141	447.11	563	161	2.7
H	May 2022	1041	8	13	741	12.0	106	150	448.68	593	145	2.4
I	Jun 2022	842	18	15	679	11.4	103	60	448.30	586	154	2.6
S	Jul 2022	770	31	17	639	10.4	106	19	448.84	596	150	2.4
T	Aug 2022	575	40	17	482	7.8	106	16	448.16	583	120	2.0
O	Sep 2022	617	15	15	458	7.7	103	52	447.96	579	108	1.8
	WY 2022	8495	176	140	6231		1117	1112		1499		
R	Oct 2022	542	26	12	393	6.4	106	66	447.14	564	67	1.1
I	Nov 2022	516	1	9	336	5.6	103	67	447.09	563	89	1.5
C	Dec 2022	436	14	7	277	4.5	101	63	447.06	562	87	1.4
A	Jan 2023	347	16	6	261	4.2	54	40	447.14	564	125	2.0
L	Feb 2023	444	2	8	370	6.7	16	40	447.47	570	130	2.3
*	Mar 2023	705	40	9	553	9.0	70	91	448.31	586	168	2.7
	Apr 2023	843	44	11	659	11.1	55	167	447.50	570	153	2.6
	May 2023	956	42	13	720	11.7	71	164	448.50	589	125	2.0
	Jun 2023	837	48	16	691	11.6	97	66	448.70	593	128	2.1
	Jul 2023	827	17	17	708	11.5	100	21	448.00	580	130	2.1
	Aug 2023	745	19	17	625	10.2	100	20	447.50	571	103	1.7
	Sep 2023	738	12	15	542	9.1	97	86	447.50	570	100	1.7
	WY 2023	7936	281	140	6135		968	892		1403		
	Oct 2023	639	21	12	466	7.6	99	74	447.50	571	68	1.1
	Nov 2023	516	14	9	383	6.4	47	85	447.50	570	84	1.4
	Dec 2023	352	17	7	281	4.6	51	45	446.50	552	84	1.4
	Jan 2024	509	7	6	313	5.1	90	101	446.50	552	138	2.2
	Feb 2024	542	4	8	411	7.1	12	109	446.50	552	124	2.2
	Mar 2024	853	2	9	608	9.9	102	123	446.70	555	147	2.4
	Apr 2024	1009	7	11	727	12.2	93	136	448.70	593	147	2.5
	May 2024	987	4	13	734	11.9	89	143	448.70	593	110	1.8
	Jun 2024	863	10	16	714	12.0	86	45	448.70	593	116	2.0
	Jul 2024	783	17	17	686	11.2	89	10	448.00	580	123	2.0
	Aug 2024	719	19	17	621	10.1	89	10	447.50	571	102	1.7
	Sep 2024	705	12	15	533	9.0	86	72	447.50	570	99	1.7
	WY 2024	8476	134	139	6476		933	953		1343		
	Oct 2024	644	21	12	482	7.8	89	74	447.50	571	89	1.4
	Nov 2024	512	14	9	375	6.3	86	49	447.50	570	115	1.9
	Dec 2024	391	17	7	270	4.4	89	57	446.50	552	110	1.8
	Jan 2025	505	7	6	313	5.1	86	101	446.50	552	138	2.2
	Feb 2025	538	4	8	411	7.4	8	109	446.50	552	124	2.2
	Mar 2025	849	2	9	608	9.9	98	123	446.70	555	147	2.4

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	1027	17.3	1054.69	8026	-511	405.75	863.0	380.5	61	370.4
H	May 2022	1083	17.6	1047.69	7517	-509	397.38	1082.0	391.7	80	361.7
I	Jun 2022	889	14.9	1043.02	7187	-330	396.77	1076.9	315.1	81	354.6
S	Jul 2022	822	13.4	1040.92	7041	-146	392.29	1236.6	287.9	94	350.1
T	Aug 2022	573	9.3	1044.28	7275	234	399.70	1224.8	200.6	94	349.9
O	Sep 2022	539	9.1	1045.03	7328	53	400.65	1157.3	188.5	88	349.7
	WY 2022	8899						3240.9			
R	Oct 2022	418	6.8	1046.28	7417	88	402.36	924.5	145.8	70	348.8
I	Nov 2022	713	12.0	1043.02	7187	-230	395.39	948.8	254.6	72	357.1
C	Dec 2022	438	7.1	1044.82	7313	126	403.20	975.8	152.9	72	348.9
A	Jan 2023	412	6.7	1046.97	7466	152	403.66	866.6	143.8	64	348.8
L	Feb 2023	494	8.9	1047.02	7469	4	399.03	810.5	175.9	60	356.5
*	Mar 2023	754	12.3	1046.03	7399	-70	397.62	863.6	270.4	65	358.8
	Apr 2023	837	14.1	1048.80	7597	198	397.53	839.3	306.5	65	366.1
	May 2023	983	16.0	1051.17	7767	171	399.72	904.6	359.9	72	365.9
	Jun 2023	872	14.7	1054.23	7991	224	401.76	983.3	316.3	78	362.6
	Jul 2023	833	13.6	1057.68	8248	256	403.98	1143.7	305.6	91	366.7
	Aug 2023	777	12.6	1062.09	8582	334	407.54	1249.3	284.9	97	366.8
	Sep 2023	706	11.9	1067.17	8976	393	412.59	1284.2	260.5	100	368.7
	WY 2023	8238						2977.0			
	Oct 2023	481	7.8	1067.31	8987	11	421.44	793.7	182.5	62	379.7
	Nov 2023	596	10.0	1066.30	8908	-79	423.30	793.7	227.9	62	382.1
	Dec 2023	484	7.9	1068.05	9045	137	420.88	882.1	183.5	69	378.7
	Jan 2024	591	9.6	1070.10	9207	162	420.51	894.8	222.3	69	376.2
	Feb 2024	563	9.8	1071.47	9317	110	421.46	903.8	212.6	69	377.9
	Mar 2024	908	14.8	1069.42	9153	-164	419.41	1054.5	344.3	81	379.3
	Apr 2024	1033	17.4	1064.37	8758	-395	413.52	1258.6	383.8	100	371.4
	May 2024	1014	16.5	1058.99	8346	-412	408.38	1220.2	369.0	100	363.8
	Jun 2024	898	15.1	1054.92	8043	-304	403.70	1194.6	324.8	100	361.8
	Jul 2024	789	12.8	1053.62	7947	-96	401.37	1181.8	284.9	100	361.1
	Aug 2024	751	12.2	1053.75	7956	10	401.12	1181.8	269.8	100	359.0
	Sep 2024	673	11.3	1052.34	7853	-104	401.13	1401.6	239.7	100	356.0
	WY 2024	8781						3244.9			
	Oct 2024	486	7.9	1054.45	8008	155	406.06	1085.1	177.6	78	365.4
	Nov 2024	592	9.9	1055.20	8064	56	410.19	1032.7	217.6	74	367.9
	Dec 2024	524	8.5	1057.99	8271	208	408.52	1223.8	187.4	86	357.8
	Jan 2025	587	9.5	1061.83	8563	291	411.30	1012.1	215.7	70	367.7
	Feb 2025	558	10.1	1064.75	8788	225	413.91	1026.9	207.9	70	372.3
	Mar 2025	903	14.7	1064.21	8745	-42	412.93	1266.0	335.9	87	371.8

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

Model Run ID: 3221

Processed On: 4/13/2023 5:02:13PM



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	975	16.4	643.08	1701	8	137.93	255.0	124.0	100	127.1
H	May 2022	1041	16.9	643.35	1708	7	140.42	241.8	132.1	95	126.9
I	Jun 2022	842	14.1	643.47	1712	3	139.18	251.6	108.5	99	128.9
S	Jul 2022	770	12.5	643.97	1725	14	144.37	255.0	99.3	100	129.1
T	Aug 2022	575	9.3	642.87	1695	-30	141.93	253.3	74.7	99	129.9
O	Sep 2022	617	10.4	639.17	1595	-100	137.50	248.2	78.5	97	127.3
	WY 2022	8495						1074.5			
R	Oct 2022	540	8.8	633.78	1454	-141	134.35	185.9	66.9	73	123.8
I	Nov 2022	516	8.7	640.22	1623	169	141.13	154.7	62.5	61	121.1
C	Dec 2022	436	7.1	639.97	1617	-7	140.89	159.6	53.9	63	123.5
A	Jan 2023	347	5.6	642.12	1675	58	143.26	157.9	44.3	62	127.7
L	Feb 2023	429	8.0	643.00	1699	24	141.81	185.8	56.7	73	132.3
*	Mar 2023	705	11.5	644.17	1731	32	141.44	215.5	93.4	85	132.4
	Apr 2023	843	14.2	643.00	1699	-32	140.13	255.0	106.4	100	126.2
	May 2023	956	15.6	643.00	1699	0	139.06	248.4	119.8	97	125.3
	Jun 2023	837	14.1	643.00	1699	0	139.58	255.0	105.3	100	125.7
	Jul 2023	827	13.5	642.00	1671	-27	139.30	255.0	103.8	100	125.5
	Aug 2023	745	12.1	642.00	1671	0	139.30	255.0	93.4	100	125.5
	Sep 2023	738	12.4	640.01	1617	-54	138.20	255.0	91.9	100	124.5
	WY 2023	7919						998.3			
	Oct 2023	639	10.4	633.00	1434	-183	134.49	227.0	77.4	89	121.2
	Nov 2023	516	8.7	635.00	1486	51	132.70	159.8	61.7	63	119.6
	Dec 2023	352	5.7	639.51	1604	118	137.30	154.7	43.5	61	123.7
	Jan 2024	509	8.3	641.80	1666	62	139.53	156.3	64.0	61	125.7
	Feb 2024	542	9.4	641.80	1666	0	140.19	160.0	68.5	63	126.3
	Mar 2024	853	13.9	643.05	1700	34	139.08	194.1	106.9	76	125.3
	Apr 2024	1009	17.0	643.00	1699	-2	138.62	249.9	126.0	98	124.9
	May 2024	987	16.0	643.00	1699	0	138.89	255.0	123.5	100	125.1
	Jun 2024	863	14.5	643.00	1699	0	139.43	255.0	108.4	100	125.6
	Jul 2024	783	12.7	642.00	1671	-27	139.57	255.0	98.4	100	125.7
	Aug 2024	719	11.7	642.00	1671	0	139.47	255.0	90.4	100	125.7
	Sep 2024	705	11.8	640.01	1617	-54	138.42	255.0	87.9	100	124.7
	WY 2024	8476						1056.5			
	Oct 2024	644	10.5	633.00	1434	-183	134.45	227.0	78.0	89	121.1
	Nov 2024	512	8.6	635.00	1486	51	132.74	159.8	61.2	63	119.6
	Dec 2024	391	6.4	639.51	1604	118	137.00	154.7	48.3	61	123.4
	Jan 2025	505	8.2	641.80	1666	62	139.56	156.3	63.5	61	125.7
	Feb 2025	538	9.7	641.80	1666	0	140.07	156.6	67.9	61	126.2
	Mar 2025	849	13.8	643.05	1700	34	139.11	194.1	106.4	76	125.3

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

Model Run ID: 3221

Processed On: 4/13/2023 5:02:13PM



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	737	12.4	447.11	563	-17	79.08	120.0	50.8	100	68.9
H	May 2022	741	12.0	448.68	593	30	84.09	120.0	51.5	100	69.5
I	Jun 2022	679	11.4	448.30	586	-7	78.23	120.0	47.2	100	69.4
S	Jul 2022	639	10.4	448.84	596	10	82.19	120.0	44.7	100	69.9
T	Aug 2022	482	7.8	448.16	583	-13	83.58	120.0	33.4	100	69.3
O	Sep 2022	458	7.7	447.96	579	-4	81.26	120.0	31.4	100	68.7
	WY 2022	6231						431.0			
R	Oct 2022	393	6.4	447.14	564	-15	81.28	91.9	27.2	77	69.1
I	Nov 2022	336	5.6	447.09	563	-1	82.54	82.0	22.8	68	68.0
C	Dec 2022	277	4.5	447.06	562	0	82.38	60.0	18.5	50	66.8
A	Jan 2023	261	4.2	447.14	564	2	81.41	72.6	17.3	60	66.4
L	Feb 2023	357	6.7	447.47	570	6	81.43	94.3	25.4	79	71.2
*	Mar 2023	553	9.0	448.31	586	16	81.24	120.0	38.6	100	69.8
	Apr 2023	659	11.1	447.50	570	-15	78.36	120.0	46.2	100	70.0
	May 2023	720	11.7	448.50	589	19	78.20	120.0	50.2	100	69.7
	Jun 2023	691	11.6	448.70	593	4	78.84	120.0	48.5	100	70.2
	Jul 2023	708	11.5	448.00	580	-13	78.63	120.0	49.3	100	69.7
	Aug 2023	625	10.2	447.50	571	-10	78.56	120.0	43.4	100	69.4
	Sep 2023	542	9.1	447.50	570	0	78.77	120.0	37.5	100	69.3
	WY 2023	6121						425.0			
	Oct 2023	466	7.6	447.50	571	0	79.46	91.0	32.8	76	70.3
	Nov 2023	383	6.4	447.50	570	0	80.01	92.0	26.3	77	68.6
	Dec 2023	281	4.6	446.50	552	-19	80.49	112.3	17.8	94	63.5
	Jan 2024	313	5.1	446.50	552	0	79.71	92.9	20.9	77	66.8
	Feb 2024	411	7.1	446.50	552	0	78.66	96.2	28.4	80	69.1
	Mar 2024	608	9.9	446.70	555	4	77.53	120.0	41.7	100	68.6
	Apr 2024	727	12.2	448.70	593	38	77.71	120.0	50.5	100	69.5
	May 2024	734	11.9	448.70	593	0	78.82	120.0	51.5	100	70.2
	Jun 2024	714	12.0	448.70	593	0	78.79	120.0	50.1	100	70.2
	Jul 2024	686	11.2	448.00	580	-13	78.77	120.0	47.9	100	69.8
	Aug 2024	621	10.1	447.50	571	-10	78.59	120.0	43.1	100	69.4
	Sep 2024	533	9.0	447.50	570	0	78.83	120.0	36.9	100	69.3
	WY 2024	6476						448.0			
	Oct 2024	482	7.8	447.50	571	0	79.34	90.0	33.8	75	70.1
	Nov 2024	375	6.3	447.50	570	0	80.08	92.0	25.7	77	68.6
	Dec 2024	270	4.4	446.50	552	-19	80.59	114.2	17.2	95	63.6
	Jan 2025	313	5.1	446.50	552	0	79.71	92.9	20.9	77	66.8
	Feb 2025	411	7.4	446.50	552	0	78.54	95.4	28.4	79	69.0
	Mar 2025	608	9.9	446.70	555	4	77.53	120.0	41.7	100	68.6

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

Model Run ID: 3221

Processed On: 4/13/2023 5:02:13PM



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Upper Basin Power

— BUREAU OF —
RECLAMATION

	Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
*	Apr 2022	179	19	11	15	10
H	May 2022	214	52	20	31	18
I	Jun 2022	222	41	18	25	16
S	Jul 2022	251	29	23	29	17
T	Aug 2022	265	39	23	31	18
O	Sep 2022	201	42	14	27	13
	Summer 2022	1332	222	108	160	92
R	Oct 2022	175	42	0	21	10
I	Nov 2022	181	38	0	6	2
C	Dec 2022	199	40	1	6	2
A	Jan 2023	182	41	4	5	2
L	Feb 2023	172	37	5	6	0
*	Mar 2023	173	23	4	6	0
	Winter 2023	1083	220	15	49	16
	Apr 2023	317	16	10	14	0
	May 2023	397	16	30	50	23
	Jun 2023	441	16	47	66	22
	Jul 2023	462	21	32	40	21
	Aug 2023	459	30	28	34	17
	Sep 2023	451	33	8	33	16
	Summer 2023	2527	132	154	236	100
	Oct 2023	191	21	19	23	9
	Nov 2023	198	21	11	14	7
	Dec 2023	237	34	15	18	10
	Jan 2024	284	34	15	18	10
	Feb 2024	249	32	13	17	9
	Mar 2024	262	20	14	18	10
	Winter 2024	1421	163	86	108	54
	Apr 2024	233	20	13	21	12
	May 2024	236	74	24	37	22
	Jun 2024	256	19	41	53	22
	Jul 2024	293	23	34	40	21
	Aug 2024	312	35	35	41	21
	Sep 2024	233	37	32	38	19
	Summer 2024	1563	208	179	229	117
	Oct 2024	262	28	28	34	10
	Nov 2024	261	29	11	14	8
	Dec 2024	289	43	17	20	11
	Jan 2025	344	43	15	18	10
	Feb 2025	301	39	13	17	9
	Mar 2025	316	20	12	15	8
	Winter 2025	1774	202	95	118	54
						24

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



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Most Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions



— BUREAU OF —
RECLAMATION

Date	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF
*****PREDICTED SPACE*****																		
Apr 2023	1,433	522	728	17939	20622	20221	40843	992	441	439	1872	17939	20221	40032	1500	837	0	19.6
May 2023	1,320	497	614	17820	20251	20023	40274	870	418	304	1592	17820	20023	39435	1500	983	0	22.5
Jun 2023	1,040	356	487	15717	17600	19853	37452	574	261	141	976	15717	19853	36545	1500	872	0	25.9
Jul 2023	636	148	452	13217	14454	19629	34082	147	25	54	226	13217	19629	33071	1500	833	0	26.3
*****EFFECTIVE SPACE*****																		
Aug 2023	509	122	454	13155	14239	19372	33612	509	122	454	1085	13155	19372	33612	1500	777	0	26.0
Sep 2023	537	140	473	13704	14854	19038	33891	537	140	473	1149	13704	19038	33891	2270	706	0	25.6
Oct 2023	599	183	481	14296	15560	18644	34204	599	183	481	1264	14296	18644	34204	3040	481	0	25.3
Nov 2023	618	205	473	14347	15643	18633	34276	618	205	473	1296	14347	18633	34276	3810	596	0	25.3
Dec 2023	633	209	472	14372	15686	18712	34398	633	209	472	1315	14372	18712	34398	4580	484	0	25.3
Jan 2024	702	231	472	14532	15937	18575	34512	702	231	472	1405	14532	18575	34512	5350	591	0	25.1
*****CREDITABLE SPACE*****																		
Jan 2024	702	231	472	14532	15937	18575	34512	411	196	224	830	14532	18575	33937	5350	591	0	25.1
Feb 2024	763	254	477	14805	16299	18413	34711	470	220	228	918	14805	18413	34136	1500	563	0	25.0
Mar 2024	816	276	473	14973	16537	18303	34841	522	243	223	988	14973	18303	34264	1500	908	0	24.8
Apr 2024	795	284	428	15103	16611	18467	35078	497	252	171	920	15103	18467	34490	1500	1033	0	24.7
May 2024	749	250	365	14981	16346	18862	35208	444	220	84	749	14981	18862	34592	1500	1014	0	25.6
Jun 2024	737	136	370	13785	15028	19274	34302	426	97	51	573	13785	19274	33632	1500	898	0	26.9
Jul 2024	424	31	402	12550	13407	19577	32984	92	-22	26	96	12550	19577	32223	1500	789	0	26.8
*****CREDITABLE SPACE*****																		
Aug 2024	351	43	435	12609	13437	19673	33110	351	43	435	828	12609	19673	33110	1500	751	0	26.4
Sep 2024	402	85	469	12872	13828	19664	33491	402	85	469	956	12872	19664	33491	2270	673	0	25.9
Oct 2024	480	143	475	13003	14101	19767	33868	480	143	475	1098	13003	19767	33868	3040	486	0	25.6
Nov 2024	517	199	470	13160	14346	19612	33959	517	199	470	1186	13160	19612	33959	3810	592	0	25.5
Dec 2024	556	205	470	13331	14562	19556	34118	556	205	470	1231	13331	19556	34118	4580	524	0	25.5
Jan 2025	651	232	473	13566	14922	19349	34271	651	232	473	1356	13566	19349	34271	5350	587	0	25.3
*****EFFECTIVE SPACE*****																		
Jan 2025	651	232	473	13566	14922	19349	34271	364	216	227	806	13566	19349	33721	5350	587	0	25.3
Feb 2025	737	256	477	13939	15409	19057	34467	450	240	231	921	13939	19057	33917	1500	558	0	25.2
Mar 2025	811	275	473	14200	15759	18832	34592	523	261	225	1009	14200	18832	34042	1500	903	0	25.0

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

Model Run ID: 3221

Processed On: 4/13/2023 5:02:13PM



To: All Annual Operating Plan Recipients

From: Noe Santos, P.E.
River Operations Manager
Boulder Canyon Operations Office
Interior Region 8: Lower Colorado Basin
Email: nsantos@usbr.gov

From: Alex Pivarnik
Supervisor, Water Management Group
Water and Power Division, Power Office
Interior Region 7: Upper Colorado Basin
Email: apivarnik@usbr.gov

Subject: April 2023 Probable Minimum 24-Month Study

In addition to the April 2023 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted additional model runs in April to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. Probable minimum and probable maximum model runs are conducted in January, April, August, and October, or when necessary to incorporate changing conditions. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

The projected Lake Powell and Lake Mead elevations resulting from these three inflow scenarios are summarized in graphs located at either of the following links:

<https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf> or
<https://www.usbr.gov/lc/region/g4000/24mo/2023/April-Chart.pdf>.

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 operation in WY 2023 is governed by the Lower Elevation Balancing Tier with an initial projected WY release volume of 7.00 million acre-feet (maf). Based on hydrologic conditions as of April 2023, in which the most probable inflow into Lake Powell is projected to be 11.30 maf (177 percent of average) during the 2023 April-July runoff period, Reclamation has determined that conditions are sufficient to release up to 9.50 maf from Lake Powell in WY 2023 consistent with Section 6.D.1 of the Interim Guidelines. In addition, Reclamation has removed the operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action,¹ such that balancing releases are based on physical elevations of Lake Powell and Lake Mead, but could be as low as 7.00 maf consistent with the Interim Guidelines and to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023. Further, Lower Basin projections for Lake Mead take into consideration: updated water orders to reflect additional conservation efforts; new completed system conservation agreements under the Lower Colorado River Basin System Conservation and Efficiency Program (LC Conservation Program); and updated Lower Basin tributary inflow projections (reflecting current conditions) above Lake Mead, for the Bill Williams and for the Gila River.

The modeling approach for 2024 and beyond will be consistent with the Interim Guidelines, based on projected physical elevations at Lake Powell and Lake Mead, and assume the 0.480 maf retained in Lake Powell under the May 2022 action was released as part of the WY 2023 balancing release only if the release volume is 7.48 maf or greater.

The 2022 Drought Response Operations Agreement (DROA) Plan for May 2022 through April 2023 has been amended to suspend 2022 DROA Plan releases for

¹ For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220503-2022DROA-GlenCanyonDamOperationsDecisionLetter-508-DOI.pdf>.

² For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220429-2022DroughtResponseOperationsPlan-ApprovalMemo-508-DOI.pdf>.

the remainder of April 2023. The suspension of 2022 DROA Plan releases occurred on March 7, 2023. A total DROA release of approximately 463 kaf occurred under the 2022 DROA Plan.

Reclamation will attempt to maximize DROA recovery in the Upper Initial Units in WY 2023 and through April 2024. Reclamation will provide monthly DROA accounting, including DROA releases and recovery, which can be found online at:

<https://www.usbr.gov/dcp/DROSummarySheet.pdf>.

Reclamation continues to consult with the DROA Parties and to consult with the Lower Division States and others in accordance with the DROA on the implementation of the Drought Response Operations Plans and consideration of 2023 DROA Plan.

The WY 2023 unregulated inflow into Lake Powell in the April Probable Minimum inflow scenario is 12.27 maf, or 128% of average. The Probable Minimum 24-Month Study includes a release volume from Glen Canyon Dam of 8.66 maf in WY 2023 and 7.48 maf in WY 2024. Under the Probable Minimum scenario, Lake Powell's physical elevation is projected to be 3,599.34 feet on December 31, 2023. With intervening flows between Lake Powell and Lake Mead of 1.131 maf in calendar year (CY) 2023, Lake Mead's physical elevation is projected to be 1,055.85 feet on December 31, 2023.

The 2023 AOP is available online at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP23.pdf>.

The Interim Guidelines are available online at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The Colorado River DCPs are available online at:

<https://www.usbr.gov/dcp/finaldocs.html>.

The 2021 Lower Basin MOU is available online at:

https://www.usbr.gov/lc/region/g4000/2021_MOU.pdf.

The Upper Basin DROA is online at:

<https://www.usbr.gov/dcp/droa.html>.

The Upper Basin Hydrology Summary is available online at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_04_ucb.pdf.

Information on the LC Conservation Program is available online at:

<https://www.usbr.gov/lc/LCBConservation.html>.



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Fontenelle Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	50	1	5	44	49	6478.74	152
H	May 2022	63	1	47	8	55	6479.96	158
I	Jun 2022	241	2	82	0	82	6503.59	315
S	Jul 2022	102	3	83	11	93	6504.34	321
T	Aug 2022	56	2	67	1	68	6502.43	306
O	Sep 2022	29	2	61	0	61	6498.08	274
	WY 2022	744	15	617	67	685		
R	Oct 2022	40	1	22	39	61	6494.58	249
I	Nov 2022	33	1	10	48	58	6490.90	224
C	Dec 2022	28	1	56	2	58	6486.14	194
A	Jan 2023	32	1	58	0	59	6481.53	167
L	Feb 2023	28	0	10	43	53	6476.59	141
*	Mar 2023	29	0	55	3	58	6470.02	113
	Apr 2023	42	1	57	0	57	6466.09	98
	May 2023	117	1	75	0	75	6475.98	139
	Jun 2023	237	2	89	0	89	6499.45	284
	Jul 2023	124	3	84	0	84	6504.37	321
	Aug 2023	50	2	68	0	68	6501.77	301
	Sep 2023	51	2	65	0	65	6499.58	285
	WY 2023	811	14	649	136	785		
	Oct 2023	39	1	37	0	37	6499.71	286
	Nov 2023	39	1	56	0	56	6497.29	268
	Dec 2023	32	1	74	0	74	6491.16	226
	Jan 2024	29	1	74	0	74	6483.96	181
	Feb 2024	27	1	69	0	69	6475.88	138
	Mar 2024	43	0	72	0	72	6468.94	108
	Apr 2024	65	1	27	0	27	6477.53	146
	May 2024	116	1	88	0	88	6482.56	173
	Jun 2024	201	2	89	0	89	6499.16	282
	Jul 2024	90	3	83	0	83	6499.81	287
	Aug 2024	42	2	61	0	61	6496.84	265
	Sep 2024	32	2	60	0	60	6492.66	236
	WY 2024	755	15	789	0	789		
	Oct 2024	40	1	61	0	61	6489.28	214
	Nov 2024	39	1	58	0	58	6486.20	194
	Dec 2024	32	1	58	0	58	6481.57	167
	Jan 2025	31	1	58	0	58	6476.11	139
	Feb 2025	29	0	53	0	53	6470.59	115
	Mar 2025	51	0	57	0	57	6468.99	108

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Flaming Gorge Reservoir

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Apr 2022	66	62	5	51	0	51	118	6018.81	2938	179
H	May 2022	88	88	7	139	48	187	114	6015.77	2769	570
I	Jun 2022	274	113	9	110	12	121	113	6015.25	2752	465
S	Jul 2022	125	110	11	79	0	79	106	6016.09	2780	137
T	Aug 2022	58	70	11	105	0	105	104	6014.73	2735	124
O	Sep 2022	32	63	9	112	0	112	102	6013.01	2680	125
	WY 2022	897	837	70	927	60	987			2138	
R	Oct 2022	41	65	6	111	0	111	100	6011.45	2630	142
I	Nov 2022	40	63	3	102	0	102	98	6010.19	2590	132
C	Dec 2022	26	57	2	107	0	107	96	6008.59	2540	138
A	Jan 2023	38	65	2	108	0	108	95	6007.19	2497	143
L	Feb 2023	33	58	2	98	0	98	93	6005.89	2457	371
*	Mar 2023	49	77	3	61	5	66	93	6006.15	2465	119
	Apr 2023	113	128	4	48	0	48	96	6008.53	2538	252
	May 2023	230	188	6	68	0	68	101	6012.01	2648	820
	Jun 2023	317	169	9	48	0	48	105	6015.37	2756	673
	Jul 2023	140	100	12	51	0	51	106	6016.47	2792	170
	Aug 2023	57	75	11	69	0	69	106	6016.31	2787	99
	Sep 2023	56	70	10	71	0	71	106	6016.00	2777	94
	WY 2023	1141	1115	68	941	5	946			3153	
	Oct 2023	44	42	6	74	0	74	104	6014.87	2740	96
	Nov 2023	46	63	3	66	0	66	104	6014.71	2735	94
	Dec 2023	33	75	1	71	0	71	104	6014.79	2737	96
	Jan 2024	40	85	1	71	0	71	105	6015.16	2749	96
	Feb 2024	42	84	2	66	0	66	105	6015.63	2765	91
	Mar 2024	68	97	3	49	0	49	107	6016.95	2808	114
	Apr 2024	91	53	4	48	0	48	107	6016.98	2809	213
	May 2024	165	137	7	92	0	92	109	6018.09	2846	504
	Jun 2024	249	137	9	48	0	48	112	6020.39	2923	274
	Jul 2024	92	85	12	55	0	55	112	6020.88	2940	71
	Aug 2024	45	64	11	60	0	60	112	6020.69	2934	71
	Sep 2024	34	62	10	60	0	60	112	6020.46	2926	67
	WY 2024	949	983	70	758	0	758			1785	
	Oct 2024	45	66	7	53	0	53	112	6020.67	2933	71
	Nov 2024	47	66	3	48	0	48	113	6021.10	2948	73
	Dec 2024	34	60	2	49	0	49	113	6021.37	2957	74
	Jan 2025	42	69	2	49	0	49	114	6021.89	2975	74
	Feb 2025	43	67	2	44	0	44	114	6022.46	2995	69
	Mar 2025	85	91	3	49	0	49	116	6023.54	3032	123

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Taylor Park Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2022	8	6	9302.92
H	May 2022	27	12	9312.55
I	Jun 2022	26	19	9316.61
S	Jul 2022	11	15	9314.18
T	Aug 2022	8	14	9310.35
O	Sep 2022	5	8	9308.87
	WY 2022	110	100	
R	Oct 2022	6	6	9308.80
I	Nov 2022	4	5	9308.13
C	Dec 2022	5	5	9307.68
A	Jan 2023	4	5	9307.08
L	Feb 2023	4	5	9306.26
*	Mar 2023	4	5	9305.50
	Apr 2023	6	9	9303.45
	May 2023	29	15	9312.52
	Jun 2023	49	21	9327.89
	Jul 2023	20	24	9325.86
	Aug 2023	9	21	9319.47
	Sep 2023	8	18	9313.72
	WY 2023	148	140	
	Oct 2023	6	9	9311.91
	Nov 2023	4	5	9311.27
	Dec 2023	4	5	9310.49
	Jan 2024	4	5	9309.74
	Feb 2024	4	5	9309.23
	Mar 2024	4	5	9308.46
	Apr 2024	8	4	9310.99
	May 2024	23	9	9319.19
	Jun 2024	28	15	9326.12
	Jul 2024	9	18	9321.38
	Aug 2024	7	15	9316.94
	Sep 2024	6	15	9311.60
	WY 2024	107	111	
	Oct 2024	6	6	9311.60
	Nov 2024	5	5	9311.57
	Dec 2024	4	5	9310.80
	Jan 2025	5	5	9310.68
	Feb 2025	4	5	9310.18
	Mar 2025	5	5	9310.05



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Blue Mesa Reservoir

— BUREAU OF —
RECLAMATION

Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	62	60	0	44	0	46	7438.94	252
H	May 2022	177	162	1	79	0	79	7454.56	335
I	Jun 2022	133	126	1	69	0	69	7463.76	391
S	Jul 2022	59	63	1	84	0	84	7460.15	368
T	Aug 2022	57	64	1	89	0	89	7455.69	341
O	Sep 2022	31	33	1	55	28	82	7446.72	292
	WY 2022	661	652	6	566	28	595		
R	Oct 2022	32	32	0	0	58	58	7441.74	266
I	Nov 2022	26	27	0	1	10	11	7444.87	282
C	Dec 2022	24	25	0	6	10	17	7446.44	290
A	Jan 2023	24	25	0	20	0	20	7447.43	295
L	Feb 2023	20	21	0	20	0	20	7447.61	296
*	Mar 2023	25	26	0	19	0	19	7448.79	303
	Apr 2023	51	54	1	64	0	64	7446.81	292
	May 2023	226	212	1	150	0	150	7457.64	353
	Jun 2023	337	309	1	54	0	54	7493.66	607
	Jul 2023	111	115	1	83	0	83	7497.46	637
	Aug 2023	64	76	1	85	0	85	7496.17	627
	Sep 2023	56	66	1	26	56	82	7494.02	609
	WY 2023	996	988	7	529	135	663		
	Oct 2023	32	35	1	58	0	58	7491.08	586
	Nov 2023	29	30	0	23	0	23	7491.94	593
	Dec 2023	25	26	0	31	0	31	7491.33	588
	Jan 2024	24	25	0	31	0	31	7490.58	582
	Feb 2024	23	24	0	30	0	30	7489.81	576
	Mar 2024	35	36	0	35	0	35	7489.95	577
	Apr 2024	64	60	1	48	0	48	7491.44	589
	May 2024	159	145	1	58	0	58	7501.98	675
	Jun 2024	165	152	1	54	0	54	7513.16	771
	Jul 2024	53	62	2	83	0	83	7510.57	748
	Aug 2024	42	50	1	80	0	80	7507.04	718
	Sep 2024	28	37	1	66	0	66	7503.49	687
	WY 2024	679	683	9	596	0	596		
	Oct 2024	31	31	1	72	0	72	7498.48	646
	Nov 2024	29	29	0	38	0	38	7497.36	636
	Dec 2024	26	27	0	68	0	68	7492.30	596
	Jan 2025	25	25	0	43	0	43	7489.98	578
	Feb 2025	23	24	0	27	0	27	7489.50	574
	Mar 2025	38	38	0	33	0	33	7490.07	578

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Morrow Point Reservoir

— BUREAU OF —
RECLAMATION

Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	65	46	3	50	47	0	47	7153.31	112
H	May 2022	186	79	9	88	89	0	89	7152.08	111
I	Jun 2022	134	69	1	70	71	0	71	7150.86	110
S	Jul 2022	60	84	1	85	84	0	84	7152.31	111
T	Aug 2022	58	89	1	90	90	0	90	7152.25	111
O	Sep 2022	31	82	1	83	78	0	78	7157.81	115
	WY 2022	685	595	24	619	614	0	614		
R	Oct 2022	33	58	1	59	60	0	60	7156.10	114
I	Nov 2022	27	11	1	12	21	0	21	7143.98	104
C	Dec 2022	26	17	2	18	20	0	20	7141.82	103
A	Jan 2023	26	20	2	21	20	0	20	7144.03	105
L	Feb 2023	21	20	1	21	18	0	18	7148.07	108
*	Mar 2023	26	19	2	21	19	0	19	7149.91	109
	Apr 2023	55	64	4	68	65	0	65	7153.73	112
	May 2023	251	150	25	175	175	0	175	7153.73	112
	Jun 2023	358	54	21	75	75	0	75	7153.72	112
	Jul 2023	115	83	4	87	87	0	87	7153.73	112
	Aug 2023	64	85	0	85	85	0	85	7153.73	112
	Sep 2023	57	82	1	83	83	0	83	7153.73	112
	WY 2023	1059	663	63	727	729	0	729		
	Oct 2023	33	58	1	59	59	0	59	7153.73	112
	Nov 2023	31	23	2	25	25	0	25	7153.73	112
	Dec 2023	27	31	2	33	33	0	33	7153.73	112
	Jan 2024	26	31	2	33	33	0	33	7153.73	112
	Feb 2024	25	30	2	32	32	0	32	7153.73	112
	Mar 2024	37	35	2	37	37	0	37	7153.73	112
	Apr 2024	72	48	8	56	55	0	55	7153.73	112
	May 2024	176	58	17	75	75	0	75	7153.73	112
	Jun 2024	173	54	8	62	62	0	62	7153.72	112
	Jul 2024	54	83	1	84	84	0	84	7153.73	112
	Aug 2024	43	80	1	81	80	0	80	7153.73	112
	Sep 2024	30	66	2	68	68	0	68	7153.73	112
	WY 2024	727	596	48	644	643	0	643		
	Oct 2024	33	72	2	74	74	0	74	7153.73	112
	Nov 2024	30	38	1	39	39	0	39	7153.73	112
	Dec 2024	27	68	1	69	69	0	69	7153.73	112
	Jan 2025	26	43	1	44	44	0	44	7153.73	112
	Feb 2025	25	27	2	29	29	0	29	7153.73	112
	Mar 2025	40	33	2	35	35	0	35	7153.73	112



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Crystal Reservoir

— BUREAU OF —
RECLAMATION

	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)	
Date												
*	Apr 2022	73	47	8	54	54	1	54	6752.33	17	31	24
H	May 2022	203	89	17	105	92	13	106	6751.40	16	59	48
I	Jun 2022	145	71	10	82	80	2	81	6752.67	17	62	21
S	Jul 2022	64	84	5	89	90	0	90	6747.68	15	65	28
T	Aug 2022	62	90	4	94	92	0	93	6751.52	17	66	31
O	Sep 2022	33	78	2	80	69	12	80	6750.17	16	62	22
	WY 2022	755	614	70	684	622	62	684		393	295	
R	Oct 2022	36	60	3	63	53	10	63	6751.29	16	41	21
I	Nov 2022	29	21	2	23	21	2	23	6752.92	17	0	21
C	Dec 2022	28	20	2	22	22	0	22	6751.64	17	2	21
A	Jan 2023	28	20	2	22	22	0	22	6751.37	16	2	21
L	Feb 2023	23	18	2	20	4	16	20	6751.71	17	1	19
*	Mar 2023	29	19	2	22	0	22	22	6751.16	16	2	21
	Apr 2023	63	65	8	73	0	72	72	6753.04	17	42	30
	May 2023	281	175	30	205	134	71	205	6753.04	17	62	143
	Jun 2023	399	75	41	116	116	0	116	6753.03	17	61	55
	Jul 2023	122	87	7	94	94	0	94	6753.04	17	65	29
	Aug 2023	71	85	7	92	92	0	92	6753.04	17	65	27
	Sep 2023	63	83	6	89	89	0	89	6753.04	17	55	34
	WY 2023	1173	729	113	842	648	194	841		398	444	
	Oct 2023	38	59	5	64	52	12	64	6753.04	17	55	9
	Nov 2023	35	25	4	29	29	0	29	6753.04	17	0	29
	Dec 2023	31	33	4	37	37	0	37	6753.04	17	0	37
	Jan 2024	30	33	4	37	37	0	37	6753.04	17	0	37
	Feb 2024	28	32	3	35	35	0	35	6753.04	17	0	35
	Mar 2024	42	37	5	42	42	0	42	6753.04	17	5	37
	Apr 2024	82	55	10	65	65	0	65	6753.04	17	42	23
	May 2024	195	75	19	94	94	0	94	6753.04	17	62	32
	Jun 2024	190	62	17	79	79	0	79	6753.03	17	61	18
	Jul 2024	57	84	3	87	87	0	87	6753.04	17	65	22
	Aug 2024	48	80	5	85	85	0	85	6753.04	17	65	20
	Sep 2024	34	68	4	72	72	0	72	6753.04	17	55	17
	WY 2024	810	643	83	726	714	12	726		410	316	
	Oct 2024	38	74	5	79	56	23	79	6753.04	17	55	24
	Nov 2024	35	39	5	44	44	0	44	6753.04	17	0	44
	Dec 2024	32	69	5	74	74	0	74	6753.04	17	0	74
	Jan 2025	31	44	5	49	49	0	49	6753.04	17	0	49
	Feb 2025	29	29	4	33	33	0	33	6753.04	17	0	33
	Mar 2025	46	35	6	41	41	0	41	6753.04	17	5	36

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

Model Run ID: 3222

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Vallecito Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2022	27	2	7644.01
H	May 2022	53	33	7652.10
I	Jun 2022	26	34	7648.50
S	Jul 2022	19	32	7642.57
T	Aug 2022	18	28	7637.64
O	Sep 2022	12	26	7630.15
	WY 2022	185	160	
R	Oct 2022	14	3	7635.84
I	Nov 2022	7	0	7639.00
C	Dec 2022	5	0	7641.15
A	Jan 2023	5	0	7643.44
L	Feb 2023	4	1	7644.74
*	Mar 2023	6	35	7630.44
	Apr 2023	12	27	7620.55
	May 2023	85	34	7647.25
	Jun 2023	95	52	7664.08
	Jul 2023	23	42	7656.78
	Aug 2023	15	38	7647.28
	Sep 2023	13	30	7639.67
	WY 2023	285	264	
	Oct 2023	10	17	7636.07
	Nov 2023	8	2	7639.06
	Dec 2023	6	2	7640.99
	Jan 2024	6	2	7642.86
	Feb 2024	5	2	7644.29
	Mar 2024	8	2	7646.89
	Apr 2024	20	2	7654.31
	May 2024	56	31	7663.67
	Jun 2024	40	43	7662.45
	Jul 2024	13	41	7651.06
	Aug 2024	12	38	7639.59
	Sep 2024	11	29	7630.06
	WY 2024	195	210	
	Oct 2024	10	16	7626.18
	Nov 2024	8	2	7629.79
	Dec 2024	7	2	7632.61
	Jan 2025	6	2	7634.76
	Feb 2025	5	2	7636.40
	Mar 2025	10	2	7640.26

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



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Navajo Reservoir

— BUREAU OF —
RECLAMATION

Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)	
*	Apr 2022	123	17	84	2	17	20	6023.53	898	44
H	May 2022	167	30	114	3	38	18	6029.39	954	104
I	Jun 2022	47	7	50	3	37	24	6027.89	939	61
S	Jul 2022	44	5	54	3	39	35	6025.41	916	55
T	Aug 2022	53	5	56	3	38	30	6023.95	902	49
O	Sep 2022	22	1	35	2	23	40	6020.65	872	56
	WY 2022	574	66	484	20	200	296		595	
R	Oct 2022	44	2	32	1	5	33	6019.84	865	51
I	Nov 2022	23	0	16	1	0	19	6019.52	862	37
C	Dec 2022	17	0	13	0	0	22	6018.45	852	37
A	Jan 2023	20	0	15	0	0	20	6017.85	847	34
L	Feb 2023	18	0	15	1	1	17	6017.38	843	30
*	Mar 2023	71	0	98	1	3	18	6025.86	920	46
	Apr 2023	130	16	130	2	19	20	6034.95	1009	55
	May 2023	370	49	270	3	33	20	6054.29	1222	205
	Jun 2023	270	37	190	4	48	19	6063.68	1340	249
	Jul 2023	30	2	47	4	52	23	6061.11	1307	83
	Aug 2023	20	0	43	4	44	55	6056.37	1247	85
	Sep 2023	19	0	36	3	24	48	6053.18	1208	74
	WY 2023	1033	107	903	24	230	313		986	
	Oct 2023	25	0	32	2	9	26	6052.75	1203	43
	Nov 2023	29	1	22	1	0	19	6052.89	1205	35
	Dec 2023	24	0	19	1	0	20	6052.79	1204	34
	Jan 2024	24	0	20	1	0	20	6052.70	1203	33
	Feb 2024	27	1	23	1	0	19	6052.97	1206	31
	Mar 2024	74	7	60	2	6	20	6055.71	1239	38
	Apr 2024	110	13	79	2	21	19	6058.60	1275	59
	May 2024	190	25	140	4	36	21	6064.80	1355	133
	Jun 2024	102	12	93	4	52	24	6065.82	1368	123
	Jul 2024	9	0	37	5	55	51	6060.20	1295	81
	Aug 2024	2	0	28	4	46	46	6054.71	1227	68
	Sep 2024	13	0	31	3	25	38	6051.84	1193	57
	WY 2024	629	59	585	27	250	324		736	
	Oct 2024	21	2	26	2	9	21	6051.41	1188	40
	Nov 2024	24	1	17	1	0	19	6051.11	1184	35
	Dec 2024	24	0	19	1	0	20	6050.94	1182	35
	Jan 2025	22	0	18	1	0	20	6050.69	1179	33
	Feb 2025	29	1	25	1	0	18	6051.17	1185	30
	Mar 2025	92	10	74	2	5	20	6055.10	1232	43

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

Model Run ID: 3222

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Lake Powell

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Apr 2022	594	490	12	502	0	502	3522.77	4517	5791	510
H	May 2022	1382	1212	14	598	0	598	3531.69	4561	6346	599
I	Jun 2022	1284	1198	25	598	0	598	3539.81	4604	6878	595
S	Jul 2022	491	463	28	672	0	672	3536.20	4551	6212	672
T	Aug 2022	368	444	27	713	0	713	3531.69	4529	5938	722
O	Sep 2022	245	420	24	547	0	547	3529.33	4517	5797	562
	WY 2022	6084	6107	203	6999	0	6999			7066	
R	Oct 2022	437	535	17	480	0	480	3529.92	4520	5832	494
I	Nov 2022	349	394	17	498	0	498	3528.02	4511	5720	507
C	Dec 2022	281	358	13	550	0	550	3524.75	4496	5531	560
A	Jan 2023	361	424	4	500	0	501	3523.45	4490	5456	510
L	Feb 2023	270	337	4	480	0	480	3521.04	4479	5320	493
*	Mar 2023	573	552	6	486	0	486	3522.02	4484	5375	500
	Apr 2023	1047	916	10	910	0	910	3521.95	4483	5371	919
	May 2023	3221	2716	14	840	0	840	3549.95	4621	7095	842
	Jun 2023	3704	2986	28	890	0	890	3576.40	4774	9009	887
	Jul 2023	1127	1057	38	1100	0	1100	3575.44	4768	8935	1103
	Aug 2023	496	608	37	1113	0	1113	3568.87	4728	8433	1128
	Sep 2023	404	498	33	810	0	810	3564.55	4703	8114	824
	WY 2023	12271	11381	221	8658	0	8658			8768	
	Oct 2023	350	416	22	480	0	480	3563.46	4696	8035	492
	Nov 2023	429	434	22	500	0	500	3562.33	4690	7953	512
	Dec 2023	347	387	17	600	0	600	3559.34	4673	7740	616
	Jan 2024	333	367	5	723	0	723	3554.54	4646	7406	741
	Feb 2024	378	401	5	639	0	639	3551.24	4628	7181	654
	Mar 2024	564	504	8	675	0	675	3548.75	4615	7015	686
	Apr 2024	716	600	13	601	0	601	3548.55	4614	7001	610
	May 2024	1552	1269	16	599	0	599	3557.45	4662	7607	602
	Jun 2024	1570	1242	28	628	0	628	3565.04	4706	8150	632
	Jul 2024	298	388	34	709	0	709	3560.49	4679	7822	715
	Aug 2024	211	354	33	758	0	758	3554.71	4647	7417	773
	Sep 2024	226	340	29	568	0	568	3551.20	4628	7179	582
	WY 2024	6974	6703	233	7480	0	7480			7615	
	Oct 2024	338	397	20	480	0	480	3549.77	4620	7083	496
	Nov 2024	407	413	19	500	0	500	3548.29	4612	6984	505
	Dec 2024	361	414	15	600	0	600	3545.45	4598	6798	603
	Jan 2025	350	374	4	723	0	723	3540.34	4571	6471	727
	Feb 2025	397	393	4	639	0	639	3536.63	4553	6239	650
	Mar 2025	614	517	7	675	0	675	3534.14	4541	6086	689

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	502	30	33	1027	17.3	17	1026	522	1054.69	8026
H	May 2022	598	8	40	1083	17.6	25	1075	489	1047.69	7517
I	Jun 2022	598	16	47	889	14.9	29	877	467	1043.02	7187
S	Jul 2022	672	70	45	822	13.4	31	814	458	1040.92	7041
T	Aug 2022	713	183	48	573	9.3	25	567	473	1044.28	7275
O	Sep 2022	547	117	48	539	9.1	21	545	476	1045.03	7328
	WY 2022	6999	787	463	8899		222	8888			
R	Oct 2022	480	94	46	418	6.8	16	434	482	1046.28	7417
I	Nov 2022	498	18	40	713	12.0	8	714	467	1043.02	7187
C	Dec 2022	550	63	32	438	7.1	8	439	475	1044.82	7313
A	Jan 2023	501	103	22	412	6.7	7	413	485	1046.97	7466
L	Feb 2023	480	46	21	494	8.9	8	493	485	1047.02	7469
*	Mar 2023	486	226	23	754	12.3	10	749	481	1046.03	7399
	Apr 2023	910	184	31	837	14.1	21	837	493	1048.73	7591
	May 2023	840	124	39	983	16.0	26	983	488	1047.61	7511
	Jun 2023	890	59	48	872	14.7	32	872	488	1047.57	7509
	Jul 2023	1100	19	46	833	13.6	32	833	501	1050.28	7703
	Aug 2023	1113	79	51	777	12.6	31	777	521	1054.56	8016
	Sep 2023	810	75	50	706	11.9	24	706	527	1055.89	8114
	WY 2023	8658	1089	448	8238		224	8250			
	Oct 2023	480	65	48	481	7.8	15	481	527	1055.90	8115
	Nov 2023	500	66	42	638	10.7	8	638	520	1054.36	8001
	Dec 2023	600	85	34	526	8.6	7	526	527	1055.86	8112
	Jan 2024	723	96	24	605	9.8	10	605	538	1058.12	8281
	Feb 2024	639	80	22	551	9.6	7	551	547	1059.84	8411
	Mar 2024	675	58	24	910	14.8	14	910	534	1057.17	8210
	Apr 2024	601	48	32	1041	17.5	15	1041	507	1051.57	7797
	May 2024	599	15	39	1030	16.8	19	1030	478	1045.35	7351
	Jun 2024	628	23	47	912	15.3	27	912	457	1040.84	7036
	Jul 2024	709	31	44	805	13.1	31	805	449	1038.93	6904
	Aug 2024	758	79	48	768	12.5	32	768	448	1038.79	6894
	Sep 2024	568	77	46	688	11.6	28	688	441	1037.17	6784
	WY 2024	7480	723	449	8957		214	8957			
	Oct 2024	480	77	44	502	8.2	23	502	440	1037.00	6773
	Nov 2024	500	63	38	606	10.2	13	606	434	1035.69	6684
	Dec 2024	600	72	31	540	8.8	9	540	440	1036.98	6771
	Jan 2025	723	75	22	583	9.5	10	583	451	1039.50	6944
	Feb 2025	639	71	20	552	9.9	7	552	459	1041.28	7066
	Mar 2025	675	97	22	884	14.4	14	884	450	1039.26	6927



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	1027	-31	13	975	0	975	16.4	643.08	1701
H	May 2022	1083	-20	14	1041	0	1041	16.9	643.35	1708
I	Jun 2022	889	-30	14	842	0	842	14.1	643.47	1712
S	Jul 2022	822	-26	12	770	0	770	12.5	643.97	1725
T	Aug 2022	573	-13	16	575	0	575	9.3	642.87	1695
O	Sep 2022	539	-6	16	617	0	617	10.4	639.17	1595
	WY 2022	8899	-222	151	8495	0	8495			
R	Oct 2022	418	-2	14	540	0	542	8.8	633.78	1454
I	Nov 2022	713	-15	13	516	0	516	8.7	640.22	1623
C	Dec 2022	438	4	13	436	0	436	7.1	639.97	1617
A	Jan 2023	412	2	9	347	0	347	5.6	642.12	1675
L	Feb 2023	494	-18	8	429	0	444	8.0	643.00	1699
*	Mar 2023	754	-6	10	705	0	705	11.5	644.17	1731
	Apr 2023	837	-14	13	843	0	843	14.2	643.00	1699
	May 2023	983	-13	14	956	0	956	15.6	643.00	1699
	Jun 2023	872	-21	14	837	0	837	14.1	643.00	1699
	Jul 2023	833	-21	12	827	0	827	13.5	642.00	1671
	Aug 2023	777	-17	15	745	0	745	12.1	642.00	1671
	Sep 2023	706	-6	16	738	0	738	12.4	640.01	1617
	WY 2023	8238	-127	152	7919	0	7936			
	Oct 2023	481	-11	14	639	0	639	10.4	633.00	1434
	Nov 2023	638	-16	13	558	0	558	9.4	635.00	1486
	Dec 2023	526	-2	13	393	0	393	6.4	639.51	1604
	Jan 2024	605	-11	9	524	0	524	8.5	641.80	1666
	Feb 2024	551	-13	8	531	0	531	9.2	641.80	1666
	Mar 2024	910	-10	10	856	0	856	13.9	643.05	1700
	Apr 2024	1041	-14	13	1017	0	1017	17.1	643.00	1699
	May 2024	1030	-13	14	1003	0	1003	16.3	643.00	1699
	Jun 2024	912	-21	14	878	0	878	14.8	643.00	1699
	Jul 2024	805	-21	12	799	0	799	13.0	642.00	1671
	Aug 2024	768	-17	15	735	0	735	12.0	642.00	1671
	Sep 2024	688	-6	16	719	0	719	12.1	640.01	1617
	WY 2024	8957	-154	151	8652	0	8652			
	Oct 2024	502	-11	14	660	0	660	10.7	633.00	1434
	Nov 2024	606	-16	13	526	0	526	8.8	635.00	1486
	Dec 2024	540	-2	13	407	0	407	6.6	639.51	1604
	Jan 2025	583	-11	9	501	0	501	8.1	641.80	1666
	Feb 2025	552	-13	8	531	0	531	9.6	641.80	1666
	Mar 2025	884	-10	10	830	0	830	13.5	643.05	1700

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)	
Date												
*	Apr 2022	975	6	11	737	12.4	100	141	447.11	563	161	2.7
H	May 2022	1041	8	13	741	12.0	106	150	448.68	593	145	2.4
I	Jun 2022	842	18	15	679	11.4	103	60	448.30	586	154	2.6
S	Jul 2022	770	31	17	639	10.4	106	19	448.84	596	150	2.4
T	Aug 2022	575	40	17	482	7.8	106	16	448.16	583	120	2.0
O	Sep 2022	617	15	15	458	7.7	103	52	447.96	579	108	1.8
	WY 2022	8495	176	140	6231		1117	1112			1499	
R	Oct 2022	542	26	12	393	6.4	106	66	447.14	564	67	1.1
I	Nov 2022	516	1	9	336	5.6	103	67	447.09	563	89	1.5
C	Dec 2022	436	14	7	277	4.5	101	63	447.06	562	87	1.4
A	Jan 2023	347	16	6	261	4.2	54	40	447.14	564	125	2.0
L	Feb 2023	444	2	8	370	6.7	16	40	447.47	570	130	2.3
*	Mar 2023	705	40	9	553	9.0	70	91	448.31	586	168	2.7
	Apr 2023	843	44	11	659	11.1	55	167	447.50	570	153	2.6
	May 2023	956	42	13	720	11.7	71	164	448.50	589	125	2.0
	Jun 2023	837	48	16	691	11.6	97	66	448.70	593	128	2.1
	Jul 2023	827	17	17	708	11.5	100	21	448.00	580	130	2.1
	Aug 2023	745	19	17	625	10.2	100	20	447.50	571	103	1.7
	Sep 2023	738	12	15	542	9.1	97	86	447.50	570	100	1.7
	WY 2023	7936	281	140	6135		968	892			1403	
	Oct 2023	639	21	12	466	7.6	99	74	447.50	571	68	1.1
	Nov 2023	558	14	9	383	6.4	89	85	447.50	570	84	1.4
	Dec 2023	393	17	7	281	4.6	92	45	446.50	552	84	1.4
	Jan 2024	524	7	6	313	5.1	105	101	446.50	552	138	2.2
	Feb 2024	531	4	8	411	7.1	1	109	446.50	552	124	2.2
	Mar 2024	856	2	9	608	9.9	105	123	446.70	555	147	2.4
	Apr 2024	1017	7	11	727	12.2	101	136	448.70	593	147	2.5
	May 2024	1003	4	13	734	11.9	105	143	448.70	593	110	1.8
	Jun 2024	878	10	16	714	12.0	101	45	448.70	593	116	2.0
	Jul 2024	799	17	17	686	11.2	105	10	448.00	580	123	2.0
	Aug 2024	735	19	17	621	10.1	105	10	447.50	571	102	1.7
	Sep 2024	719	12	15	533	9.0	101	72	447.50	570	99	1.7
	WY 2024	8652	134	139	6476		1109	953			1343	
	Oct 2024	660	21	12	482	7.8	105	74	447.50	571	89	1.4
	Nov 2024	526	14	9	375	6.3	101	49	447.50	570	115	1.9
	Dec 2024	407	17	7	270	4.4	105	57	446.50	552	110	1.8
	Jan 2025	501	7	6	304	4.9	103	89	446.50	552	131	2.1
	Feb 2025	531	4	8	403	7.3	21	96	446.50	552	117	2.1
	Mar 2025	830	2	9	599	9.7	103	109	446.70	555	140	2.3



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	1027	17.3	1054.69	8026	-511	405.75	863.0	380.5	61	370.4
H	May 2022	1083	17.6	1047.69	7517	-509	397.38	1082.0	391.7	80	361.7
I	Jun 2022	889	14.9	1043.02	7187	-330	396.77	1076.9	315.1	81	354.6
S	Jul 2022	822	13.4	1040.92	7041	-146	392.29	1236.6	287.9	94	350.1
T	Aug 2022	573	9.3	1044.28	7275	234	399.70	1224.8	200.6	94	349.9
O	Sep 2022	539	9.1	1045.03	7328	53	400.65	1157.3	188.5	88	349.7
	WY 2022	8899						3240.9			
R	Oct 2022	418	6.8	1046.28	7417	88	402.36	924.5	145.8	70	348.8
I	Nov 2022	713	12.0	1043.02	7187	-230	395.39	948.8	254.6	72	357.1
C	Dec 2022	438	7.1	1044.82	7313	126	403.20	975.8	152.9	72	348.9
A	Jan 2023	412	6.7	1046.97	7466	152	403.66	866.6	143.8	64	348.8
L	Feb 2023	494	8.9	1047.02	7469	4	399.03	810.5	175.9	60	356.5
*	Mar 2023	754	12.3	1046.03	7399	-70	397.62	863.6	270.4	65	358.8
	Apr 2023	837	14.1	1048.73	7591	192	397.50	839.3	306.4	65	366.0
	May 2023	983	16.0	1047.61	7511	-80	397.92	991.0	358.0	72	364.0
	Jun 2023	872	14.7	1047.57	7509	-3	396.70	1082.9	311.7	78	357.4
	Jul 2023	833	13.6	1050.28	7703	195	397.03	1275.8	299.7	91	359.7
	Aug 2023	777	12.6	1054.56	8016	313	400.15	1376.2	279.3	97	359.6
	Sep 2023	706	11.9	1055.89	8114	98	403.29	1430.5	254.3	100	360.0
	WY 2023	8238						2953.0			
	Oct 2023	481	7.8	1055.90	8115	1	410.17	888.1	177.9	62	370.2
	Nov 2023	638	10.7	1054.36	8001	-114	411.69	882.6	235.7	62	369.6
	Dec 2023	526	8.6	1055.86	8112	111	408.89	982.3	189.7	69	360.7
	Jan 2024	605	9.8	1058.12	8281	169	408.51	997.3	222.0	69	366.8
	Feb 2024	551	9.6	1059.84	8411	130	409.74	1005.6	202.2	69	366.7
	Mar 2024	910	14.8	1057.17	8210	-201	407.56	1169.9	335.2	81	368.2
	Apr 2024	1041	17.5	1051.57	7797	-413	401.12	1400.5	374.4	100	359.5
	May 2024	1030	16.8	1045.35	7351	-446	395.29	1382.7	362.2	100	351.5
	Jun 2024	912	15.3	1040.84	7036	-315	389.99	1354.3	317.9	100	348.4
	Jul 2024	805	13.1	1038.93	6904	-132	387.14	1342.2	279.7	100	347.3
	Aug 2024	768	12.5	1038.79	6894	-10	386.45	1341.3	264.9	100	345.1
	Sep 2024	688	11.6	1037.17	6784	-110	386.22	1304.5	235.5	100	342.2
	WY 2024	8957						3197.3			
	Oct 2024	502	8.2	1037.00	6773	-11	389.89	1015.2	176.7	78	351.7
	Nov 2024	606	10.2	1035.69	6684	-88	391.85	956.4	213.1	74	351.4
	Dec 2024	540	8.8	1036.98	6771	87	388.44	1124.9	184.4	86	341.4
	Jan 2025	583	9.5	1039.50	6944	172	389.79	924.3	202.3	70	347.3
	Feb 2025	552	9.9	1041.28	7066	123	391.17	932.6	193.3	70	350.4
	Mar 2025	884	14.4	1039.26	6927	-139	388.94	1141.7	312.6	87	353.5

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

Model Run ID: 3222

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	975	16.4	643.08	1701	8	137.93	255.0	124.0	100	127.1
H	May 2022	1041	16.9	643.35	1708	7	140.42	241.8	132.1	95	126.9
I	Jun 2022	842	14.1	643.47	1712	3	139.18	251.6	108.5	99	128.9
S	Jul 2022	770	12.5	643.97	1725	14	144.37	255.0	99.3	100	129.1
T	Aug 2022	575	9.3	642.87	1695	-30	141.93	253.3	74.7	99	129.9
O	Sep 2022	617	10.4	639.17	1595	-100	137.50	248.2	78.5	97	127.3
	WY 2022	8495						1074.5			
R	Oct 2022	540	8.8	633.78	1454	-141	134.35	185.9	66.9	73	123.8
I	Nov 2022	516	8.7	640.22	1623	169	141.13	154.7	62.5	61	121.1
C	Dec 2022	436	7.1	639.97	1617	-7	140.89	159.6	53.9	63	123.5
A	Jan 2023	347	5.6	642.12	1675	58	143.26	157.9	44.3	62	127.7
L	Feb 2023	429	8.0	643.00	1699	24	141.81	185.8	56.7	73	132.3
*	Mar 2023	705	11.5	644.17	1731	32	141.44	215.5	93.4	85	132.4
	Apr 2023	843	14.2	643.00	1699	-32	140.13	255.0	106.4	100	126.2
	May 2023	956	15.6	643.00	1699	0	139.06	248.4	119.8	97	125.3
	Jun 2023	837	14.1	643.00	1699	0	139.58	255.0	105.3	100	125.7
	Jul 2023	827	13.5	642.00	1671	-27	139.30	255.0	103.8	100	125.5
	Aug 2023	745	12.1	642.00	1671	0	139.30	255.0	93.4	100	125.5
	Sep 2023	738	12.4	640.01	1617	-54	138.20	255.0	91.9	100	124.5
	WY 2023	7919						998.3			
	Oct 2023	639	10.4	633.00	1434	-183	134.49	227.0	77.4	89	121.2
	Nov 2023	558	9.4	635.00	1486	51	132.41	159.8	66.5	63	119.3
	Dec 2023	393	6.4	639.51	1604	118	136.98	154.7	48.5	61	123.4
	Jan 2024	524	8.5	641.80	1666	62	139.42	156.3	65.8	61	125.6
	Feb 2024	531	9.2	641.80	1666	0	140.26	160.0	67.1	63	126.4
	Mar 2024	856	13.9	643.05	1700	34	139.06	194.1	107.2	76	125.3
	Apr 2024	1017	17.1	643.00	1699	-2	138.57	249.9	126.9	98	124.8
	May 2024	1003	16.3	643.00	1699	0	138.80	255.0	125.4	100	125.1
	Jun 2024	878	14.8	643.00	1699	0	139.34	255.0	110.2	100	125.5
	Jul 2024	799	13.0	642.00	1671	-27	139.47	255.0	100.4	100	125.7
	Aug 2024	735	12.0	642.00	1671	0	139.36	255.0	92.3	100	125.6
	Sep 2024	719	12.1	640.01	1617	-54	138.32	255.0	89.6	100	124.6
	WY 2024	8652						1077.5			
	Oct 2024	660	10.7	633.00	1434	-183	134.35	227.0	79.9	89	121.0
	Nov 2024	526	8.8	635.00	1486	51	132.63	159.8	62.9	63	119.5
	Dec 2024	407	6.6	639.51	1604	118	136.88	154.7	50.2	61	123.3
	Jan 2025	501	8.1	641.80	1666	62	139.59	156.3	63.0	61	125.8
	Feb 2025	531	9.6	641.80	1666	0	140.13	156.6	67.1	61	126.2
	Mar 2025	830	13.5	643.05	1700	34	139.22	194.1	104.0	76	125.4

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

Model Run ID: 3222

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	737	12.4	447.11	563	-17	79.08	120.0	50.8	100	68.9
H	May 2022	741	12.0	448.68	593	30	84.09	120.0	51.5	100	69.5
I	Jun 2022	679	11.4	448.30	586	-7	78.23	120.0	47.2	100	69.4
S	Jul 2022	639	10.4	448.84	596	10	82.19	120.0	44.7	100	69.9
T	Aug 2022	482	7.8	448.16	583	-13	83.58	120.0	33.4	100	69.3
O	Sep 2022	458	7.7	447.96	579	-4	81.26	120.0	31.4	100	68.7
	WY 2022	6231						431.0			
R	Oct 2022	393	6.4	447.14	564	-15	81.28	91.9	27.2	77	69.1
I	Nov 2022	336	5.6	447.09	563	-1	82.54	82.0	22.8	68	68.0
C	Dec 2022	277	4.5	447.06	562	0	82.38	60.0	18.5	50	66.8
A	Jan 2023	261	4.2	447.14	564	2	81.41	72.6	17.3	60	66.4
L	Feb 2023	357	6.7	447.47	570	6	81.43	94.3	25.4	79	71.2
*	Mar 2023	553	9.0	448.31	586	16	81.24	120.0	38.6	100	69.8
	Apr 2023	659	11.1	447.50	570	-15	78.36	120.0	46.2	100	70.0
	May 2023	720	11.7	448.50	589	19	78.20	120.0	50.2	100	69.7
	Jun 2023	691	11.6	448.70	593	4	78.84	120.0	48.5	100	70.2
	Jul 2023	708	11.5	448.00	580	-13	78.63	120.0	49.3	100	69.7
	Aug 2023	625	10.2	447.50	571	-10	78.56	120.0	43.4	100	69.4
	Sep 2023	542	9.1	447.50	570	0	78.77	120.0	37.5	100	69.3
	WY 2023	6121						425.0			
	Oct 2023	466	7.6	447.50	571	0	79.46	91.0	32.8	76	70.3
	Nov 2023	383	6.4	447.50	570	0	80.01	92.0	26.3	77	68.6
	Dec 2023	281	4.6	446.50	552	-19	80.49	112.3	17.8	94	63.5
	Jan 2024	313	5.1	446.50	552	0	79.71	92.9	20.9	77	66.8
	Feb 2024	411	7.1	446.50	552	0	78.66	96.2	28.4	80	69.1
	Mar 2024	608	9.9	446.70	555	4	77.53	120.0	41.7	100	68.6
	Apr 2024	727	12.2	448.70	593	38	77.71	120.0	50.5	100	69.5
	May 2024	734	11.9	448.70	593	0	78.82	120.0	51.5	100	70.2
	Jun 2024	714	12.0	448.70	593	0	78.79	120.0	50.1	100	70.2
	Jul 2024	686	11.2	448.00	580	-13	78.77	120.0	47.9	100	69.8
	Aug 2024	621	10.1	447.50	571	-10	78.59	120.0	43.1	100	69.4
	Sep 2024	533	9.0	447.50	570	0	78.83	120.0	36.9	100	69.3
	WY 2024	6476						448.0			
	Oct 2024	482	7.8	447.50	571	0	79.34	90.0	33.8	75	70.1
	Nov 2024	375	6.3	447.50	570	0	80.08	92.0	25.7	77	68.6
	Dec 2024	270	4.4	446.50	552	-19	80.59	114.2	17.2	95	63.6
	Jan 2025	304	4.9	446.50	552	0	79.78	92.9	20.3	77	66.9
	Feb 2025	403	7.3	446.50	552	0	78.61	95.4	27.8	79	69.1
	Mar 2025	599	9.7	446.70	555	4	77.59	120.0	41.1	100	68.7

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

Model Run ID: 3222

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Upper Basin Power

— BUREAU OF —
RECLAMATION

	Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
*	Apr 2022	179	19	11	15	10
H	May 2022	214	52	20	31	18
I	Jun 2022	222	41	18	25	16
S	Jul 2022	251	29	23	29	17
T	Aug 2022	265	39	23	31	18
O	Sep 2022	201	42	14	27	13
	Summer 2022	1332	222	108	160	92
R	Oct 2022	175	42	0	21	10
I	Nov 2022	181	38	0	6	2
C	Dec 2022	199	40	1	6	2
A	Jan 2023	182	41	4	5	2
L	Feb 2023	172	37	5	6	0
*	Mar 2023	173	23	4	6	0
	Winter 2023	1083	220	15	49	16
	Apr 2023	316	16	17	23	0
	May 2023	303	22	40	63	23
	Jun 2023	343	16	15	27	20
	Jul 2023	436	17	25	31	16
	Aug 2023	437	23	26	31	16
	Sep 2023	314	24	8	30	15
	Summer 2023	2149	117	130	206	91
	Oct 2023	186	24	17	21	9
	Nov 2023	192	22	7	9	5
	Dec 2023	230	23	9	12	6
	Jan 2024	274	23	9	12	6
	Feb 2024	240	22	9	11	6
	Mar 2024	252	16	10	13	7
	Winter 2024	1374	131	61	78	40
	Apr 2024	223	16	14	20	11
	May 2024	224	30	17	27	16
	Jun 2024	240	16	17	22	14
	Jul 2024	272	18	26	30	15
	Aug 2024	287	20	25	29	15
	Sep 2024	213	20	20	25	12
	Summer 2024	1459	120	119	153	84
	Oct 2024	178	18	22	27	10
	Nov 2024	185	16	11	14	8
	Dec 2024	221	16	20	25	13
	Jan 2025	264	16	13	16	9
	Feb 2025	231	15	8	11	6
	Mar 2025	242	16	10	13	7
	Winter 2025	1321	98	84	105	51
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* Based on the Colorado River Basin Forecast Center's Minimum Probable Water Supply Forecast

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Minimum Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions

— BUREAU OF —
RECLAMATION

Date	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF
*****PREDICTED SPACE*****																		
Apr 2023	1,433	522	728	17939	20622	20221	40843	586	373	553	1513	17939	20221	39673	1500	837	0	19.4
May 2023	1,375	533	639	17943	20490	20029	40519	521	386	443	1350	17943	20029	39322	1500	983	0	21.5
Jun 2023	1,225	472	426	16219	18341	20109	38450	358	311	194	863	16219	20109	37191	1500	872	0	24.0
Jul 2023	970	218	308	14304	15801	20111	35912	89	28	23	140	14304	20111	34556	1500	833	0	24.2
*****EFFECTIVE SPACE*****																		
Aug 2023	897	187	341	14379	15805	19917	35722	897	187	341	1426	14379	19917	35722	1500	777	0	23.9
Sep 2023	922	198	401	14881	16402	19604	36006	922	198	401	1521	14881	19604	36006	2270	706	0	23.5
Oct 2023	949	215	439	15199	16803	19506	36309	949	215	439	1604	15199	19506	36309	3040	481	0	23.2
Nov 2023	985	239	444	15279	16947	19505	36452	985	239	444	1668	15279	19505	36452	3810	638	0	23.0
Dec 2023	1,008	232	443	15361	17043	19619	36662	1008	232	443	1682	15361	19619	36662	4580	526	0	23.0
Jan 2024	1,048	237	444	15574	17302	19508	36810	1048	237	444	1728	15574	19508	36810	5350	605	0	22.8
*****CREDITABLE SPACE*****																		
Jan 2024	1,048	237	444	15574	17302	19508	36810	319	185	279	782	15574	19508	35864	5350	605	0	22.8
Feb 2024	1,081	243	445	15908	17677	19339	37016	350	192	279	821	15908	19339	36068	1500	551	0	22.7
Mar 2024	1,108	248	442	16132	17931	19209	37140	374	198	275	847	16132	19209	36189	1500	910	0	22.4
Apr 2024	1,094	247	409	16299	18049	19410	37459	355	198	235	788	16299	19410	36497	1500	1041	0	22.1
May 2024	1,056	236	373	16312	17977	19823	37800	312	182	175	668	16312	19823	36804	1500	1030	0	22.5
Jun 2024	992	150	293	15707	17142	20269	37411	238	81	56	375	15707	20269	36351	1500	912	0	23.1
Jul 2024	805	53	280	15164	16302	20584	36886	37	-30	-13	-7	15164	20584	35741	1500	805	0	22.5
*****CREDITABLE SPACE*****																		
Aug 2024	784	76	353	15492	16705	20716	37421	784	76	353	1213	15492	20716	37421	1500	768	0	21.9
Sep 2024	812	107	421	15897	17236	20726	37962	812	107	421	1340	15897	20726	37962	2270	688	0	21.4
Oct 2024	849	137	455	16135	17576	20836	38413	849	137	455	1441	16135	20836	38413	3040	502	0	21.0
Nov 2024	864	179	460	16231	17734	20847	38582	864	179	460	1503	16231	20847	38582	3810	606	0	20.9
Dec 2024	869	188	464	16330	17851	20936	38786	869	188	464	1521	16330	20936	38786	4580	540	0	20.8
Jan 2025	887	229	466	16516	18097	20849	38946	887	229	466	1582	16516	20849	38946	5350	583	0	20.7
*****EFFECTIVE SPACE*****																		
Jan 2025	887	229	466	16516	18097	20849	38946	536	229	243	1009	16516	20849	38373	5350	583	0	20.7
Feb 2025	897	247	469	16843	18456	20676	39132	544	247	246	1037	16843	20676	38556	1500	552	0	20.6
Mar 2025	901	251	463	17075	18690	20554	39244	545	251	239	1035	17075	20554	38664	1500	884	0	20.4

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

Model Run ID: 3222

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To: All Annual Operating Plan Recipients

From: Noe Santos, P.E.
River Operations Manager
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Interior Region 8: Lower Colorado Basin
Email: nsantos@usbr.gov

From: Alex Pivarnik
Supervisor, Water Management Group
Water and Power Division, Power Office
Interior Region 7: Upper Colorado Basin
Email: apivarnik@usbr.gov

Subject: April 2023 Probable Maximum 24-Month Study

In addition to the April 2023 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted additional model runs in April to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. Probable minimum and probable maximum model runs are conducted in January, April, August, and October, or when necessary to incorporate changing conditions. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

The projected Lake Powell and Lake Mead elevations resulting from these three inflow scenarios are summarized in graphs located at either of the following links:

<https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf> or
<https://www.usbr.gov/lc/region/g4000/24mo/2023/April-Chart.pdf>.

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 operation in WY 2023 is governed by the Lower Elevation Balancing Tier with an initial projected WY release volume of 7.00 million acre-feet (maf). Based on hydrologic conditions as of April 2023, in which the most probable inflow into Lake Powell is projected to be 11.30 maf (177 percent of average) during the 2023 April-July runoff period, Reclamation has determined that conditions are sufficient to release up to 9.50 maf from Lake Powell in WY 2023 consistent with Section 6.D.1 of the Interim Guidelines. In addition, Reclamation has removed the operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action,¹ such that balancing releases are based on physical elevations of Lake Powell and Lake Mead, but could be as low as 7.00 maf consistent with the Interim Guidelines and to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023. Further, Lower Basin projections for Lake Mead take into consideration: updated water orders to reflect additional conservation efforts; new completed system conservation agreements under the Lower Colorado River Basin System Conservation and Efficiency Program (LC Conservation Program); and updated Lower Basin tributary inflow projections (reflecting current conditions) above Lake Mead, for the Bill Williams and for the Gila River.

The modeling approach for 2024 and beyond will be consistent with the Interim Guidelines, based on projected physical elevations at Lake Powell and Lake Mead, and assume the 0.480 maf retained in Lake Powell under the May 2022 action was released as part of the WY 2023 balancing release only if the release volume is 7.48 maf or greater.

The 2022 Drought Response Operations Agreement (DROA) Plan for May 2022 through April 2023 has been amended to suspend 2022 DROA Plan releases for

¹ For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220503-2022DROA-GlenCanyonDamOperationsDecisionLetter-508-DOI.pdf>.

² For more information: <https://www.usbr.gov/uc/DocLibrary/Plans/20220429-2022DroughtResponseOperationsPlan-ApprovalMemo-508-DOI.pdf>.

the remainder of April 2023. The suspension of 2022 DROA Plan releases occurred on March 7, 2023. A total DROA release of approximately 463 kaf occurred under the 2022 DROA Plan.

Reclamation will attempt to maximize DROA recovery in the Upper Initial Units in WY 2023 and through April 2024. Reclamation will provide monthly DROA accounting, including DROA releases and recovery, which can be found online at:

<https://www.usbr.gov/dcp/DROSummarySheet.pdf>.

Reclamation continues to consult with the DROA Parties and to consult with the Lower Division States and others in accordance with the DROA on the implementation of the Drought Response Operations Plans and consideration of 2023 DROA Plan.

The WY 2023 unregulated inflow into Lake Powell in the April Probable Maximum inflow scenario is 17.86 maf, or 186% of average. The Probable Maximum 24-Month Study includes a release volume from Glen Canyon Dam of 9.50 maf in WY 2023 and 9.00 maf in WY 2024. Under the Probable Maximum scenario, Lake Powell's physical elevation is projected to be 3,602.99 feet on December 31, 2023. With intervening flows between Lake Powell and Lake Mead of 1.326 maf in CY 2023, Lake Mead's physical elevation is projected to be 1,075.31 feet on December 31, 2023.

The 2023 AOP is available online at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP23.pdf>.

The Interim Guidelines are available online at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The Colorado River DCPs are available online at:

<https://www.usbr.gov/dcp/finaldocs.html>.

The 2021 Lower Basin MOU is available online at:

https://www.usbr.gov/lc/region/g4000/2021_MOU.pdf.

The Upper Basin DROA is online at:

<https://www.usbr.gov/dcp/droa.html>.

The Upper Basin Hydrology Summary is available online at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_04_ucb.pdf.

Information on the LC Conservation Program is available online at:

<https://www.usbr.gov/lc/LCBConservation.html>.



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Fontenelle Reservoir

— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	50	1	5	44	49	6478.74	152
H	May 2022	63	1	47	8	55	6479.96	158
I	Jun 2022	241	2	82	0	82	6503.59	315
S	Jul 2022	102	3	83	11	93	6504.34	321
T	Aug 2022	56	2	67	1	68	6502.43	306
O	Sep 2022	29	2	61	0	61	6498.08	274
	WY 2022	744	15	617	67	685		
R	Oct 2022	40	1	22	39	61	6494.58	249
I	Nov 2022	33	1	10	48	58	6490.90	224
C	Dec 2022	28	1	56	2	58	6486.14	194
A	Jan 2023	32	1	58	0	59	6481.53	167
L	Feb 2023	28	0	10	43	53	6476.59	141
*	Mar 2023	29	0	55	3	58	6470.02	113
	Apr 2023	81	1	66	0	66	6473.37	127
	May 2023	225	1	100	82	181	6481.92	169
	Jun 2023	456	2	103	232	334	6500.03	289
	Jul 2023	238	3	103	125	228	6501.07	296
	Aug 2023	86	2	92	0	92	6499.94	288
	Sep 2023	51	2	81	0	81	6495.51	256
	WY 2023	1327	15	756	575	1330		
	Oct 2023	51	1	61	0	61	6493.84	244
	Nov 2023	45	1	65	0	65	6490.78	223
	Dec 2023	34	1	74	0	74	6484.38	183
	Jan 2024	33	1	74	0	74	6476.66	142
	Feb 2024	31	0	69	0	69	6467.64	103
	Mar 2024	64	0	73	0	73	6465.02	94
	Apr 2024	97	1	35	3	37	6478.87	153
	May 2024	224	1	102	77	180	6486.47	196
	Jun 2024	404	2	104	208	311	6499.70	286
	Jul 2024	223	3	102	87	189	6503.88	317
	Aug 2024	80	2	92	0	92	6501.98	303
	Sep 2024	46	2	67	0	67	6498.85	280
	WY 2024	1332	15	918	375	1293		
	Oct 2024	50	1	61	0	61	6497.10	267
	Nov 2024	45	1	67	0	67	6493.87	244
	Dec 2024	32	1	74	0	74	6487.47	202
	Jan 2025	31	1	74	0	74	6480.02	159
	Feb 2025	29	0	67	0	67	6471.93	120
	Mar 2025	51	0	74	0	74	6466.02	97

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Flaming Gorge Reservoir

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Apr 2022	66	62	5	51	0	51	118	6018.81	2938	179
H	May 2022	88	88	7	139	48	187	114	6015.77	2769	570
I	Jun 2022	274	113	9	110	12	121	113	6015.25	2752	465
S	Jul 2022	125	110	11	79	0	79	106	6016.09	2780	137
T	Aug 2022	58	70	11	105	0	105	104	6014.73	2735	124
O	Sep 2022	32	63	9	112	0	112	102	6013.01	2680	125
	WY 2022	897	837	70	927	60	987			2138	
R	Oct 2022	41	65	6	111	0	111	100	6011.45	2630	142
I	Nov 2022	40	63	3	102	0	102	98	6010.19	2590	132
C	Dec 2022	26	57	2	107	0	107	96	6008.59	2540	138
A	Jan 2023	38	65	2	108	0	108	95	6007.19	2497	143
L	Feb 2023	33	58	2	98	0	98	93	6005.89	2457	371
*	Mar 2023	49	77	3	61	5	66	93	6006.15	2465	119
	Apr 2023	269	254	4	48	0	48	101	6012.40	2660	361
	May 2023	546	502	7	49	0	49	118	6025.18	3089	1199
	Jun 2023	752	630	10	168	0	168	136	6036.48	3523	1124
	Jul 2023	333	323	15	196	0	196	140	6039.06	3631	377
	Aug 2023	117	123	14	123	0	123	139	6038.75	3618	169
	Sep 2023	63	93	12	119	0	119	138	6037.88	3582	143
	WY 2023	2308	2311	79	1289	5	1294			4418	
	Oct 2023	61	71	8	135	0	135	135	6036.22	3513	167
	Nov 2023	55	75	4	140	0	140	133	6034.61	3447	171
	Dec 2023	37	77	2	191	0	191	128	6031.82	3336	215
	Jan 2024	45	86	2	191	0	191	124	6029.17	3233	216
	Feb 2024	50	88	2	178	0	178	120	6026.73	3144	204
	Mar 2024	120	129	3	101	0	101	121	6027.42	3169	184
	Apr 2024	146	86	5	98	0	98	121	6027.00	3154	344
	May 2024	318	274	7	233	0	233	122	6027.89	3186	852
	Jun 2024	525	432	10	283	38	321	126	6030.47	3283	867
	Jul 2024	270	236	14	75	0	75	132	6034.06	3425	210
	Aug 2024	92	104	13	99	0	99	131	6033.86	3417	126
	Sep 2024	56	77	12	104	0	104	130	6032.94	3380	126
	WY 2024	1775	1736	82	1826	38	1864			3680	
	Oct 2024	62	73	8	111	0	111	128	6031.85	3337	149
	Nov 2024	55	77	4	115	0	115	127	6030.83	3297	152
	Dec 2024	34	76	2	148	0	148	124	6028.99	3226	173
	Jan 2025	42	85	2	148	0	148	121	6027.30	3164	173
	Feb 2025	43	81	2	133	0	133	119	6025.82	3112	158
	Mar 2025	85	108	3	65	0	65	121	6026.89	3150	139

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Taylor Park Reservoir

— BUREAU OF —
RECLAMATION

		Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
Date					
*	Apr 2022	8	6	9302.92	59
H	May 2022	27	12	9312.55	74
I	Jun 2022	26	19	9316.61	81
S	Jul 2022	11	15	9314.18	77
T	Aug 2022	8	14	9310.35	70
O	Sep 2022	5	8	9308.87	68
	WY 2022	110	100		
R	Oct 2022	6	6	9308.80	68
I	Nov 2022	4	5	9308.13	67
C	Dec 2022	5	5	9307.68	66
A	Jan 2023	4	5	9307.08	65
L	Feb 2023	4	5	9306.26	64
*	Mar 2023	4	5	9305.50	63
	Apr 2023	9	18	9299.13	54
	May 2023	43	27	9310.05	70
	Jun 2023	70	36	9328.89	104
	Jul 2023	29	33	9326.88	100
	Aug 2023	13	24	9321.11	89
	Sep 2023	9	18	9316.16	80
	WY 2023	200	188		
	Oct 2023	7	9	9314.99	78
	Nov 2023	5	6	9314.43	77
	Dec 2023	5	6	9313.75	76
	Jan 2024	5	6	9313.06	75
	Feb 2024	4	6	9312.12	73
	Mar 2024	5	6	9311.41	72
	Apr 2024	10	12	9310.17	70
	May 2024	30	21	9315.60	79
	Jun 2024	51	27	9328.49	103
	Jul 2024	24	27	9326.98	100
	Aug 2024	11	24	9320.12	87
	Sep 2024	8	18	9314.43	77
	WY 2024	165	168		
	Oct 2024	8	9	9313.84	76
	Nov 2024	5	6	9313.27	75
	Dec 2024	4	6	9311.97	73
	Jan 2025	5	6	9311.26	72
	Feb 2025	4	6	9310.30	70
	Mar 2025	5	6	9309.57	69

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Blue Mesa Reservoir

— BUREAU OF —
RECLAMATION

Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	62	60	0	44	0	46	7438.94	252
H	May 2022	177	162	1	79	0	79	7454.56	335
I	Jun 2022	133	126	1	69	0	69	7463.76	391
S	Jul 2022	59	63	1	84	0	84	7460.15	368
T	Aug 2022	57	64	1	89	0	89	7455.69	341
O	Sep 2022	31	33	1	55	28	82	7446.72	292
	WY 2022	661	652	6	566	28	595		
R	Oct 2022	32	32	0	0	58	58	7441.74	266
I	Nov 2022	26	27	0	1	10	11	7444.87	282
C	Dec 2022	24	25	0	6	10	17	7446.44	290
A	Jan 2023	24	25	0	20	0	20	7447.43	295
L	Feb 2023	20	21	0	20	0	20	7447.61	296
*	Mar 2023	25	26	0	19	0	19	7448.79	303
	Apr 2023	79	88	1	36	0	36	7457.87	354
	May 2023	349	333	1	136	0	136	7486.41	550
	Jun 2023	520	486	1	203	36	239	7515.82	795
	Jul 2023	171	175	2	213	35	248	7507.34	720
	Aug 2023	93	104	1	90	0	90	7508.87	734
	Sep 2023	49	58	1	27	62	89	7505.10	701
	WY 2023	1412	1400	8	771	212	983		
	Oct 2023	40	42	1	68	0	68	7501.92	674
	Nov 2023	31	32	0	49	0	49	7499.80	657
	Dec 2023	26	27	0	86	0	86	7492.49	597
	Jan 2024	25	26	0	87	0	87	7484.57	536
	Feb 2024	23	25	0	81	0	81	7476.82	479
	Mar 2024	41	42	0	88	0	88	7470.18	433
	Apr 2024	93	95	1	82	0	82	7472.05	445
	May 2024	247	238	1	95	0	95	7491.19	587
	Jun 2024	335	311	1	156	0	156	7509.63	740
	Jul 2024	140	143	2	97	0	97	7514.64	785
	Aug 2024	69	82	1	110	0	110	7511.35	755
	Sep 2024	41	51	1	108	0	108	7504.64	697
	WY 2024	1111	1114	9	1109	0	1109		
	Oct 2024	40	41	1	99	0	99	7497.66	639
	Nov 2024	33	34	0	36	0	36	7497.39	637
	Dec 2024	26	28	0	61	0	61	7493.24	603
	Jan 2025	25	26	0	49	0	49	7490.28	580
	Feb 2025	23	25	0	44	0	44	7487.74	560
	Mar 2025	38	39	0	50	0	50	7486.33	549

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Morrow Point Reservoir

— BUREAU OF —
RECLAMATION

Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	
*	Apr 2022	65	46	3	50	47	0	47	7153.31	112
H	May 2022	186	79	9	88	89	0	89	7152.08	111
I	Jun 2022	134	69	1	70	71	0	71	7150.86	110
S	Jul 2022	60	84	1	85	84	0	84	7152.31	111
T	Aug 2022	58	89	1	90	90	0	90	7152.25	111
O	Sep 2022	31	82	1	83	78	0	78	7157.81	115
	WY 2022	685	595	24	619	614	0	614		
R	Oct 2022	33	58	1	59	60	0	60	7156.10	114
I	Nov 2022	27	11	1	12	21	0	21	7143.98	104
C	Dec 2022	26	17	2	18	20	0	20	7141.82	103
A	Jan 2023	26	20	2	21	20	0	20	7144.03	105
L	Feb 2023	21	20	1	21	18	0	18	7148.07	108
*	Mar 2023	26	19	2	21	19	0	19	7149.91	109
	Apr 2023	85	36	6	42	39	0	39	7153.73	112
	May 2023	387	136	38	174	174	0	174	7153.73	112
	Jun 2023	551	239	31	270	270	0	270	7153.72	112
	Jul 2023	177	248	6	254	254	0	254	7153.73	112
	Aug 2023	95	90	2	92	91	0	91	7153.73	112
	Sep 2023	51	89	2	91	91	0	91	7153.73	112
	WY 2023	1505	983	93	1076	1079	0	1079		
	Oct 2023	42	68	2	70	70	0	70	7153.73	112
	Nov 2023	33	49	2	51	51	0	51	7153.73	112
	Dec 2023	28	86	2	88	88	0	88	7153.73	112
	Jan 2024	26	87	1	88	88	0	88	7153.73	112
	Feb 2024	25	81	2	83	83	0	83	7153.73	112
	Mar 2024	43	88	2	90	90	0	90	7153.73	112
	Apr 2024	105	82	12	94	94	0	94	7153.73	112
	May 2024	274	95	27	122	122	0	122	7153.73	112
	Jun 2024	358	156	23	179	179	0	179	7153.72	112
	Jul 2024	147	97	7	104	104	0	104	7153.73	112
	Aug 2024	71	110	2	112	112	0	112	7153.73	112
	Sep 2024	43	108	2	110	110	0	110	7153.73	112
	WY 2024	1195	1109	84	1193	1193	0	1193		
	Oct 2024	42	99	2	101	101	0	101	7153.73	112
	Nov 2024	34	36	1	37	37	0	37	7153.73	112
	Dec 2024	27	61	1	62	62	0	62	7153.73	112
	Jan 2025	26	49	1	50	50	0	50	7153.73	112
	Feb 2025	25	44	2	46	46	0	46	7153.73	112
	Mar 2025	40	50	2	52	52	0	52	7153.73	112



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Crystal Reservoir

— BUREAU OF —
RECLAMATION

	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)	
Date												
*	Apr 2022	73	47	8	54	54	1	54	6752.33	17	31	24
H	May 2022	203	89	17	105	92	13	106	6751.40	16	59	48
I	Jun 2022	145	71	10	82	80	2	81	6752.67	17	62	21
S	Jul 2022	64	84	5	89	90	0	90	6747.68	15	65	28
T	Aug 2022	62	90	4	94	92	0	93	6751.52	17	66	31
O	Sep 2022	33	78	2	80	69	12	80	6750.17	16	62	22
	WY 2022	755	614	70	684	622	62	684		393	295	
R	Oct 2022	36	60	3	63	53	10	63	6751.29	16	41	21
I	Nov 2022	29	21	2	23	21	2	23	6752.92	17	0	21
C	Dec 2022	28	20	2	22	22	0	22	6751.64	17	2	21
A	Jan 2023	28	20	2	22	22	0	22	6751.37	16	2	21
L	Feb 2023	23	18	2	20	4	16	20	6751.71	17	1	19
*	Mar 2023	29	19	2	22	0	22	22	6751.16	16	2	21
	Apr 2023	98	39	13	52	0	51	51	6753.04	17	42	9
	May 2023	439	174	52	226	134	92	226	6753.04	17	62	164
	Jun 2023	623	270	72	342	130	212	342	6753.03	17	61	281
	Jul 2023	190	254	13	267	134	133	267	6753.04	17	65	202
	Aug 2023	105	91	10	101	101	0	101	6753.04	17	65	36
	Sep 2023	58	91	7	98	98	0	98	6753.04	17	55	43
	WY 2023	1687	1079	181	1260	720	539	1259		398	862	
	Oct 2023	48	70	6	76	52	24	76	6753.04	17	55	21
	Nov 2023	38	51	5	56	56	0	56	6753.04	17	0	56
	Dec 2023	32	88	4	92	92	0	92	6753.04	17	0	92
	Jan 2024	30	88	4	92	92	0	92	6753.04	17	0	92
	Feb 2024	28	83	3	86	86	0	86	6753.04	17	0	86
	Mar 2024	50	90	7	97	97	0	97	6753.04	17	5	92
	Apr 2024	117	94	12	106	106	0	106	6753.04	17	42	64
	May 2024	308	122	34	156	134	22	156	6753.04	17	62	94
	Jun 2024	398	179	40	219	130	89	219	6753.03	17	61	158
	Jul 2024	163	104	16	120	120	0	120	6753.04	17	65	55
	Aug 2024	79	112	8	120	120	0	120	6753.04	17	65	55
	Sep 2024	49	110	6	116	116	0	116	6753.04	17	55	61
	WY 2024	1340	1193	145	1338	1202	136	1337		410	927	
	Oct 2024	48	101	6	107	56	50	107	6753.04	17	55	52
	Nov 2024	39	37	5	42	42	0	42	6753.04	17	0	42
	Dec 2024	32	62	5	67	67	0	67	6753.04	17	0	67
	Jan 2025	31	50	5	55	55	0	55	6753.04	17	0	55
	Feb 2025	29	46	4	50	50	0	50	6753.04	17	0	50
	Mar 2025	46	52	6	58	58	0	58	6753.04	17	5	53

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

Model Run ID: 3223

Processed On: 4/13/2023 4:02:18PM



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Vallecito Reservoir



— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2022	27	2	7644.01
H	May 2022	53	33	7652.10
I	Jun 2022	26	34	7648.50
S	Jul 2022	19	32	7642.57
T	Aug 2022	18	28	7637.64
O	Sep 2022	12	26	7630.15
	WY 2022	185	160	
R	Oct 2022	14	3	7635.84
I	Nov 2022	7	0	7639.00
C	Dec 2022	5	0	7641.15
A	Jan 2023	5	0	7643.44
L	Feb 2023	4	1	7644.74
*	Mar 2023	6	35	7630.44
	Apr 2023	23	29	7626.54
	May 2023	110	81	7641.36
	Jun 2023	125	70	7663.72
	Jul 2023	47	48	7662.97
	Aug 2023	29	38	7659.45
	Sep 2023	26	30	7657.91
	WY 2023	402	338	
	Oct 2023	17	17	7657.74
	Nov 2023	9	6	7659.03
	Dec 2023	6	6	7659.03
	Jan 2024	6	6	7659.12
	Feb 2024	5	5	7659.12
	Mar 2024	11	2	7662.52
	Apr 2024	28	13	7667.80
	May 2024	78	78	7667.77
	Jun 2024	84	83	7667.76
	Jul 2024	33	43	7664.03
	Aug 2024	20	38	7657.11
	Sep 2024	19	29	7652.89
	WY 2024	316	325	
	Oct 2024	15	16	7652.21
	Nov 2024	10	2	7655.46
	Dec 2024	7	2	7657.46
	Jan 2025	6	2	7659.04
	Feb 2025	5	2	7660.27
	Mar 2025	10	2	7663.27

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

Model Run ID: 3223

Processed On: 4/13/2023 4:02:18PM



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Navajo Reservoir

— BUREAU OF —
RECLAMATION

Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)	
*	Apr 2022	123	17	84	2	17	20	6023.53	898	44
H	May 2022	167	30	114	3	38	18	6029.39	954	104
I	Jun 2022	47	7	50	3	37	24	6027.89	939	61
S	Jul 2022	44	5	54	3	39	35	6025.41	916	55
T	Aug 2022	53	5	56	3	38	30	6023.95	902	49
O	Sep 2022	22	1	35	2	23	40	6020.65	872	56
	WY 2022	574	66	484	20	200	296		595	
R	Oct 2022	44	2	32	1	5	33	6019.84	865	51
I	Nov 2022	23	0	16	1	0	19	6019.52	862	37
C	Dec 2022	17	0	13	0	0	22	6018.45	852	37
A	Jan 2023	20	0	15	0	0	20	6017.85	847	34
L	Feb 2023	18	0	15	1	1	17	6017.38	843	30
*	Mar 2023	71	0	98	1	3	18	6025.86	920	46
	Apr 2023	185	24	167	2	19	18	6038.78	1048	78
	May 2023	460	56	375	3	33	275	6044.77	1112	515
	Jun 2023	400	53	292	4	48	239	6044.92	1114	539
	Jul 2023	125	15	111	4	52	20	6048.06	1149	140
	Aug 2023	71	6	74	3	44	18	6048.75	1157	76
	Sep 2023	67	5	65	3	24	18	6050.55	1177	61
	WY 2023	1502	162	1273	23	230	716		1644	
	Oct 2023	47	3	44	2	9	18	6051.80	1192	48
	Nov 2023	31	1	27	1	0	18	6052.46	1200	36
	Dec 2023	23	0	23	1	0	18	6052.77	1204	33
	Jan 2024	21	0	21	1	0	22	6052.64	1202	35
	Feb 2024	31	1	30	1	0	20	6053.37	1211	32
	Mar 2024	102	12	81	2	6	22	6057.67	1263	48
	Apr 2024	185	24	146	3	21	27	6065.06	1358	88
	May 2024	307	42	264	4	36	300	6059.27	1283	458
	Jun 2024	272	37	234	4	52	255	6053.04	1207	441
	Jul 2024	71	7	74	4	55	27	6052.01	1195	106
	Aug 2024	48	3	62	3	46	22	6051.26	1186	61
	Sep 2024	48	3	55	3	25	21	6051.81	1192	54
	WY 2024	1186	135	1060	26	250	769		1439	
	Oct 2024	48	2	48	2	9	22	6053.17	1208	49
	Nov 2024	35	1	26	1	0	21	6053.52	1213	41
	Dec 2024	24	0	19	1	0	22	6053.23	1209	37
	Jan 2025	22	0	18	1	0	22	6052.86	1205	35
	Feb 2025	29	1	25	1	0	19	6053.23	1209	31
	Mar 2025	92	10	74	2	5	22	6056.96	1254	45

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Lake Powell

— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Apr 2022	594	490	12	502	0	502	3522.77	4517	5791	510
H	May 2022	1382	1212	14	598	0	598	3531.69	4561	6346	599
I	Jun 2022	1284	1198	25	598	0	598	3539.81	4604	6878	595
S	Jul 2022	491	463	28	672	0	672	3536.20	4551	6212	672
T	Aug 2022	368	444	27	713	0	713	3531.69	4529	5938	722
O	Sep 2022	245	420	24	547	0	547	3529.33	4517	5797	562
	WY 2022	6084	6107	203	6999	0	6999				7066
R	Oct 2022	437	535	17	480	0	480	3529.92	4520	5832	494
I	Nov 2022	349	394	17	498	0	498	3528.02	4511	5720	507
C	Dec 2022	281	358	13	550	0	550	3524.75	4496	5531	560
A	Jan 2023	361	424	4	500	0	501	3523.45	4490	5456	510
L	Feb 2023	270	337	4	480	0	480	3521.04	4479	5320	493
*	Mar 2023	573	552	6	486	0	486	3522.02	4484	5375	500
	Apr 2023	1645	1253	11	910	0	910	3527.38	4508	5683	925
	May 2023	5062	4257	16	1088	0	1088	3571.11	4742	8602	1100
	Jun 2023	5821	4896	36	1118	0	1118	3611.54	5019	12067	1126
	Jul 2023	1772	1674	52	1190	0	1190	3615.62	5051	12467	1203
	Aug 2023	769	769	52	1130	0	1130	3611.73	5020	12085	1151
	Sep 2023	523	600	46	1069	0	1069	3606.71	4982	11608	1084
	WY 2023	17864	16048	273	9500	0	9500				9653
	Oct 2023	516	602	31	643	0	643	3606.00	4977	11541	658
	Nov 2023	456	547	30	642	0	642	3604.75	4968	11425	653
	Dec 2023	354	564	24	715	0	715	3602.99	4955	11263	725
	Jan 2024	364	572	7	857	0	857	3600.02	4933	10993	869
	Feb 2024	398	575	8	758	0	758	3598.05	4919	10816	768
	Mar 2024	660	625	13	801	0	801	3596.07	4905	10641	825
	Apr 2024	1106	934	21	713	0	713	3598.17	4920	10827	726
	May 2024	2555	2389	26	710	0	710	3614.52	5042	12357	715
	Jun 2024	3265	2954	48	745	0	745	3633.44	5202	14358	750
	Jul 2024	1366	1145	62	842	0	842	3635.42	5220	14581	855
	Aug 2024	520	591	62	900	0	900	3632.37	5193	14238	912
	Sep 2024	427	543	56	674	0	674	3630.81	5179	14065	687
	WY 2024	11987	12042	388	9000	0	9000				9143
	Oct 2024	515	606	39	643	0	643	3630.17	5173	13995	659
	Nov 2024	503	552	37	642	0	642	3629.10	5164	13878	647
	Dec 2024	361	508	29	715	0	715	3627.09	5146	13658	718
	Jan 2025	350	480	9	857	0	857	3623.73	5118	13301	861
	Feb 2025	397	500	10	758	0	758	3621.37	5098	13053	769
	Mar 2025	614	551	16	801	0	801	3618.98	5078	12806	815

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	502	30	33	1027	17.3	17	1026	522	1054.69	8026
H	May 2022	598	8	40	1083	17.6	25	1075	489	1047.69	7517
I	Jun 2022	598	16	47	889	14.9	29	877	467	1043.02	7187
S	Jul 2022	672	70	45	822	13.4	31	814	458	1040.92	7041
T	Aug 2022	713	183	48	573	9.3	25	567	473	1044.28	7275
O	Sep 2022	547	117	48	539	9.1	21	545	476	1045.03	7328
	WY 2022	6999	787	463	8899		222	8888			
R	Oct 2022	480	94	46	418	6.8	16	434	482	1046.28	7417
I	Nov 2022	498	18	40	713	12.0	8	714	467	1043.02	7187
C	Dec 2022	550	63	32	438	7.1	8	439	475	1044.82	7313
A	Jan 2023	501	103	22	412	6.7	7	413	485	1046.97	7466
L	Feb 2023	480	46	21	494	8.9	8	493	485	1047.02	7469
*	Mar 2023	486	226	23	754	12.3	10	749	481	1046.03	7399
	Apr 2023	910	219	31	837	14.1	22	837	495	1049.17	7623
	May 2023	1088	175	39	983	16.0	28	983	508	1051.92	7822
	Jun 2023	1118	102	49	847	14.2	33	847	526	1055.63	8095
	Jul 2023	1190	70	48	805	13.1	33	805	549	1060.30	8446
	Aug 2023	1130	110	53	748	12.2	32	748	574	1065.27	8828
	Sep 2023	1069	81	53	681	11.4	25	681	598	1069.93	9194
	WY 2023	9500	1307	458	8131		231	8143			
	Oct 2023	643	79	51	453	7.4	17	453	610	1072.30	9383
	Nov 2023	642	60	45	615	10.3	9	615	612	1072.69	9415
	Dec 2023	715	55	37	499	8.1	9	499	626	1075.31	9626
	Jan 2024	857	62	26	588	9.6	14	588	643	1078.64	9899
	Feb 2024	758	54	24	592	10.3	10	592	655	1080.75	10073
	Mar 2024	801	127	26	900	14.6	19	900	654	1080.56	10057
	Apr 2024	713	68	36	1038	17.5	21	1038	635	1076.98	9762
	May 2024	710	29	44	1024	16.7	27	1024	613	1072.85	9427
	Jun 2024	745	24	54	883	14.8	37	883	600	1070.44	9234
	Jul 2024	842	69	51	762	12.4	43	762	604	1071.08	9286
	Aug 2024	900	65	56	724	11.8	45	724	612	1072.72	9417
	Sep 2024	674	69	55	666	11.2	40	666	611	1072.53	9401
	WY 2024	9000	761	505	8745		290	8745			
	Oct 2024	643	77	52	476	7.7	32	476	621	1074.39	9551
	Nov 2024	642	63	46	578	9.7	18	578	625	1075.12	9611
	Dec 2024	715	72	37	510	8.3	12	510	639	1077.74	9825
	Jan 2025	857	75	26	617	10.0	14	617	655	1080.87	10083
	Feb 2025	758	71	24	621	11.2	10	621	666	1082.82	10246
	Mar 2025	801	97	27	928	15.1	19	928	661	1081.97	10175

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	
*	Apr 2022	1027	-31	13	975	0	975	16.4	643.08	1701
H	May 2022	1083	-20	14	1041	0	1041	16.9	643.35	1708
I	Jun 2022	889	-30	14	842	0	842	14.1	643.47	1712
S	Jul 2022	822	-26	12	770	0	770	12.5	643.97	1725
T	Aug 2022	573	-13	16	575	0	575	9.3	642.87	1695
O	Sep 2022	539	-6	16	617	0	617	10.4	639.17	1595
	WY 2022	8899	-222	151	8495	0	8495			
R	Oct 2022	418	-2	14	540	0	542	8.8	633.78	1454
I	Nov 2022	713	-15	13	516	0	516	8.7	640.22	1623
C	Dec 2022	438	4	13	436	0	436	7.1	639.97	1617
A	Jan 2023	412	2	9	347	0	347	5.6	642.12	1675
L	Feb 2023	494	-18	8	429	0	444	8.0	643.00	1699
*	Mar 2023	754	-6	10	705	0	705	11.5	644.17	1731
	Apr 2023	837	-14	13	843	0	843	14.2	643.00	1699
	May 2023	983	-13	14	956	0	956	15.6	643.00	1699
	Jun 2023	847	-21	14	812	0	812	13.6	643.00	1699
	Jul 2023	805	-21	12	799	0	799	13.0	642.00	1671
	Aug 2023	748	-17	15	716	0	716	11.6	642.00	1671
	Sep 2023	681	-6	16	713	0	713	12.0	640.01	1617
	WY 2023	8131	-127	152	7812	0	7829			
	Oct 2023	453	-11	14	611	0	611	9.9	633.00	1434
	Nov 2023	615	-16	13	535	0	535	9.0	635.00	1486
	Dec 2023	499	-2	13	367	0	367	6.0	639.51	1604
	Jan 2024	588	-11	9	507	0	507	8.2	641.80	1666
	Feb 2024	592	-13	8	572	0	572	9.9	641.80	1666
	Mar 2024	900	-10	10	845	0	845	13.7	643.05	1700
	Apr 2024	1038	-14	13	1014	0	1014	17.0	643.00	1699
	May 2024	1024	-13	14	997	0	997	16.2	643.00	1699
	Jun 2024	883	-21	14	849	0	849	14.3	643.00	1699
	Jul 2024	762	-21	12	756	0	756	12.3	642.00	1671
	Aug 2024	724	-17	15	692	0	692	11.3	642.00	1671
	Sep 2024	666	-6	16	697	0	697	11.7	640.01	1617
	WY 2024	8745	-154	151	8440	0	8440			
	Oct 2024	476	-11	14	634	0	634	10.3	633.00	1434
	Nov 2024	578	-16	13	498	0	498	8.4	635.00	1486
	Dec 2024	510	-2	13	377	0	377	6.1	639.51	1604
	Jan 2025	617	-11	9	535	0	535	8.7	641.80	1666
	Feb 2025	621	-13	8	600	0	600	10.8	641.80	1666
	Mar 2025	928	-10	10	873	0	873	14.2	643.05	1700

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)	
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	
*	Apr 2022	975	6	11	737	12.4	100	141	447.11	563	161	2.7
H	May 2022	1041	8	13	741	12.0	106	150	448.68	593	145	2.4
I	Jun 2022	842	18	15	679	11.4	103	60	448.30	586	154	2.6
S	Jul 2022	770	31	17	639	10.4	106	19	448.84	596	150	2.4
T	Aug 2022	575	40	17	482	7.8	106	16	448.16	583	120	2.0
O	Sep 2022	617	15	15	458	7.7	103	52	447.96	579	108	1.8
	WY 2022	8495	176	140	6231		1117	1112		1499		
R	Oct 2022	542	26	12	393	6.4	106	66	447.14	564	67	1.1
I	Nov 2022	516	1	9	336	5.6	103	67	447.09	563	89	1.5
C	Dec 2022	436	14	7	277	4.5	101	63	447.06	562	87	1.4
A	Jan 2023	347	16	6	261	4.2	54	40	447.14	564	125	2.0
L	Feb 2023	444	2	8	370	6.7	16	40	447.47	570	130	2.3
*	Mar 2023	705	40	9	553	9.0	70	91	448.31	586	168	2.7
	Apr 2023	843	44	11	659	11.1	55	167	447.50	570	153	2.6
	May 2023	956	42	13	720	11.7	71	164	448.50	589	125	2.0
	Jun 2023	812	48	16	691	11.6	71	66	448.70	593	128	2.1
	Jul 2023	799	17	17	708	11.5	71	21	448.00	580	130	2.1
	Aug 2023	716	19	17	625	10.2	71	20	447.50	571	103	1.7
	Sep 2023	713	12	15	542	9.1	71	86	447.50	570	100	1.7
	WY 2023	7829	281	140	6135		861	892		1403		
	Oct 2023	611	21	12	466	7.6	71	74	447.50	571	68	1.1
	Nov 2023	535	14	9	383	6.4	66	85	447.50	570	84	1.4
	Dec 2023	367	17	7	281	4.6	66	45	446.50	552	84	1.4
	Jan 2024	507	7	6	316	5.1	56	129	446.50	552	142	2.3
	Feb 2024	572	4	8	414	7.2	8	140	446.50	552	127	2.2
	Mar 2024	845	2	9	612	10.0	56	157	446.70	555	151	2.5
	Apr 2024	1014	7	11	731	12.3	56	174	448.70	593	151	2.5
	May 2024	997	4	13	737	12.0	56	183	448.70	593	113	1.8
	Jun 2024	849	10	16	717	12.1	56	58	448.70	593	119	2.0
	Jul 2024	756	17	17	689	11.2	56	13	448.00	580	126	2.1
	Aug 2024	692	19	17	624	10.1	56	13	447.50	571	104	1.7
	Sep 2024	697	12	15	536	9.0	56	92	447.50	570	102	1.7
	WY 2024	8440	134	139	6506		657	1163		1373		
	Oct 2024	634	21	12	484	7.9	56	95	447.50	571	91	1.5
	Nov 2024	498	14	9	378	6.4	56	63	447.50	570	118	2.0
	Dec 2024	377	17	7	273	4.4	56	72	446.50	552	113	1.8
	Jan 2025	535	7	6	316	5.1	84	129	446.50	552	142	2.3
	Feb 2025	600	4	8	414	7.5	36	140	446.50	552	127	2.3
	Mar 2025	873	2	9	612	10.0	84	157	446.70	555	151	2.5

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Hoover Dam - Lake Mead

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	1027	17.3	1054.69	8026	-511	405.75	863.0	380.5	61	370.4
H	May 2022	1083	17.6	1047.69	7517	-509	397.38	1082.0	391.7	80	361.7
I	Jun 2022	889	14.9	1043.02	7187	-330	396.77	1076.9	315.1	81	354.6
S	Jul 2022	822	13.4	1040.92	7041	-146	392.29	1236.6	287.9	94	350.1
T	Aug 2022	573	9.3	1044.28	7275	234	399.70	1224.8	200.6	94	349.9
O	Sep 2022	539	9.1	1045.03	7328	53	400.65	1157.3	188.5	88	349.7
	WY 2022	8899						3240.9			
R	Oct 2022	418	6.8	1046.28	7417	88	402.36	924.5	145.8	70	348.8
I	Nov 2022	713	12.0	1043.02	7187	-230	395.39	948.8	254.6	72	357.1
C	Dec 2022	438	7.1	1044.82	7313	126	403.20	975.8	152.9	72	348.9
A	Jan 2023	412	6.7	1046.97	7466	152	403.66	866.6	143.8	64	348.8
L	Feb 2023	494	8.9	1047.02	7469	4	399.03	810.5	175.9	60	356.5
*	Mar 2023	754	12.3	1046.03	7399	-70	397.62	863.6	270.4	65	358.8
	Apr 2023	837	14.1	1049.17	7623	224	397.72	839.3	306.6	65	366.3
	May 2023	983	16.0	1051.92	7822	199	400.28	904.6	360.5	72	366.5
	Jun 2023	847	14.2	1055.63	8095	273	402.83	1095.4	312.7	78	369.2
	Jul 2023	805	13.1	1060.30	8446	351	405.98	1303.9	295.8	91	367.4
	Aug 2023	748	12.2	1065.27	8828	381	410.41	1429.9	275.3	97	368.0
	Sep 2023	681	11.4	1069.93	9194	367	415.54	1485.1	251.9	100	369.7
	WY 2023	8131						2946.2			
	Oct 2023	453	7.4	1072.30	9383	189	425.30	919.7	172.1	62	380.1
	Nov 2023	615	10.3	1072.69	9415	31	428.96	917.0	238.7	62	388.4
	Dec 2023	499	8.1	1075.31	9626	211	427.66	1029.1	192.5	69	385.4
	Jan 2024	588	9.6	1078.64	9899	273	428.37	1053.1	225.1	69	382.6
	Feb 2024	592	10.3	1080.75	10073	174	430.32	1065.6	229.7	69	387.9
	Mar 2024	900	14.6	1080.56	10057	-16	429.54	1254.3	349.2	81	388.1
	Apr 2024	1038	17.5	1076.98	9762	-295	425.29	1512.4	397.4	100	382.7
	May 2024	1024	16.7	1072.85	9427	-335	421.48	1477.3	385.9	100	376.7
	Jun 2024	883	14.8	1070.44	9234	-192	418.24	1479.8	331.2	100	375.0
	Jul 2024	762	12.4	1071.08	9286	51	417.70	1474.0	286.0	100	375.1
	Aug 2024	724	11.8	1072.72	9417	131	419.15	1476.3	270.9	100	374.2
	Sep 2024	666	11.2	1072.53	9401	-16	420.52	1472.5	248.4	100	373.0
	WY 2024	8745						3327.1			
	Oct 2024	476	7.7	1074.39	9551	150	425.97	1159.2	181.5	78	381.0
	Nov 2024	578	9.7	1075.12	9611	59	429.98	1103.7	221.9	74	383.8
	Dec 2024	510	8.3	1077.74	9825	214	428.19	1309.2	196.2	86	384.8
	Jan 2025	617	10.0	1080.87	10083	258	430.57	1081.1	238.4	70	386.6
	Feb 2025	621	11.2	1082.82	10246	163	432.34	1093.2	240.8	70	387.9
	Mar 2025	928	15.1	1081.97	10175	-71	430.70	1345.1	361.5	87	389.5

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

Model Run ID: 3223

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Davis Dam - Lake Mohave

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	975	16.4	643.08	1701	8	137.93	255.0	124.0	100	127.1
H	May 2022	1041	16.9	643.35	1708	7	140.42	241.8	132.1	95	126.9
I	Jun 2022	842	14.1	643.47	1712	3	139.18	251.6	108.5	99	128.9
S	Jul 2022	770	12.5	643.97	1725	14	144.37	255.0	99.3	100	129.1
T	Aug 2022	575	9.3	642.87	1695	-30	141.93	253.3	74.7	99	129.9
O	Sep 2022	617	10.4	639.17	1595	-100	137.50	248.2	78.5	97	127.3
	WY 2022	8495						1074.5			
R	Oct 2022	540	8.8	633.78	1454	-141	134.35	185.9	66.9	73	123.8
I	Nov 2022	516	8.7	640.22	1623	169	141.13	154.7	62.5	61	121.1
C	Dec 2022	436	7.1	639.97	1617	-7	140.89	159.6	53.9	63	123.5
A	Jan 2023	347	5.6	642.12	1675	58	143.26	157.9	44.3	62	127.7
L	Feb 2023	429	8.0	643.00	1699	24	141.81	185.8	56.7	73	132.3
*	Mar 2023	705	11.5	644.17	1731	32	141.44	215.5	93.4	85	132.4
	Apr 2023	843	14.2	643.00	1699	-32	140.13	255.0	106.4	100	126.2
	May 2023	956	15.6	643.00	1699	0	139.06	248.4	119.8	97	125.3
	Jun 2023	812	13.6	643.00	1699	0	139.73	255.0	102.2	100	125.9
	Jul 2023	799	13.0	642.00	1671	-27	139.47	255.0	100.4	100	125.7
	Aug 2023	716	11.6	642.00	1671	0	139.48	255.0	90.0	100	125.7
	Sep 2023	713	12.0	640.01	1617	-54	138.36	255.0	88.8	100	124.7
	WY 2023	7812						985.3			
	Oct 2023	611	9.9	633.00	1434	-183	134.68	227.0	74.1	89	121.3
	Nov 2023	535	9.0	635.00	1486	51	132.57	159.8	63.8	63	119.4
	Dec 2023	367	6.0	639.51	1604	118	137.19	154.7	45.3	61	123.6
	Jan 2024	507	8.2	641.80	1666	62	139.55	156.3	63.7	61	125.7
	Feb 2024	572	9.9	641.80	1666	0	139.97	160.0	72.1	63	126.1
	Mar 2024	845	13.7	643.05	1700	34	139.12	194.1	105.9	76	125.3
	Apr 2024	1014	17.0	643.00	1699	-2	138.59	249.9	126.6	98	124.9
	May 2024	997	16.2	643.00	1699	0	138.83	255.0	124.7	100	125.1
	Jun 2024	849	14.3	643.00	1699	0	139.51	255.0	106.7	100	125.7
	Jul 2024	756	12.3	642.00	1671	-27	139.73	255.0	95.2	100	125.9
	Aug 2024	692	11.3	642.00	1671	0	139.64	255.0	87.1	100	125.8
	Sep 2024	697	11.7	640.01	1617	-54	138.47	255.0	87.0	100	124.7
	WY 2024	8440						1052.2			
	Oct 2024	634	10.3	633.00	1434	-183	134.52	227.0	76.9	89	121.2
	Nov 2024	498	8.4	635.00	1486	51	132.84	159.8	59.6	63	119.7
	Dec 2024	377	6.1	639.51	1604	118	137.10	154.7	46.6	61	123.5
	Jan 2025	535	8.7	641.80	1666	62	139.35	156.3	67.2	61	125.5
	Feb 2025	600	10.8	641.80	1666	0	139.61	156.6	75.5	61	125.8
	Mar 2025	873	14.2	643.05	1700	34	138.95	194.1	109.3	76	125.2

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Parker Dam - Lake Havasu

— BUREAU OF —
RECLAMATION

Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF	
*	Apr 2022	737	12.4	447.11	563	-17	79.08	120.0	50.8	100	68.9
H	May 2022	741	12.0	448.68	593	30	84.09	120.0	51.5	100	69.5
I	Jun 2022	679	11.4	448.30	586	-7	78.23	120.0	47.2	100	69.4
S	Jul 2022	639	10.4	448.84	596	10	82.19	120.0	44.7	100	69.9
T	Aug 2022	482	7.8	448.16	583	-13	83.58	120.0	33.4	100	69.3
O	Sep 2022	458	7.7	447.96	579	-4	81.26	120.0	31.4	100	68.7
	WY 2022	6231						431.0			
R	Oct 2022	393	6.4	447.14	564	-15	81.28	91.9	27.2	77	69.1
I	Nov 2022	336	5.6	447.09	563	-1	82.54	82.0	22.8	68	68.0
C	Dec 2022	277	4.5	447.06	562	0	82.38	60.0	18.5	50	66.8
A	Jan 2023	261	4.2	447.14	564	2	81.41	72.6	17.3	60	66.4
L	Feb 2023	357	6.7	447.47	570	6	81.43	94.3	25.4	79	71.2
*	Mar 2023	553	9.0	448.31	586	16	81.24	120.0	38.6	100	69.8
	Apr 2023	659	11.1	447.50	570	-15	78.36	120.0	46.2	100	70.0
	May 2023	720	11.7	448.50	589	19	78.20	120.0	50.2	100	69.7
	Jun 2023	691	11.6	448.70	593	4	78.84	120.0	48.5	100	70.2
	Jul 2023	708	11.5	448.00	580	-13	78.63	120.0	49.3	100	69.7
	Aug 2023	625	10.2	447.50	571	-10	78.56	120.0	43.4	100	69.4
	Sep 2023	542	9.1	447.50	570	0	78.77	120.0	37.5	100	69.3
	WY 2023	6121						425.0			
	Oct 2023	466	7.6	447.50	571	0	79.46	91.0	32.8	76	70.3
	Nov 2023	383	6.4	447.50	570	0	80.01	92.0	26.3	77	68.6
	Dec 2023	281	4.6	446.50	552	-19	80.49	112.3	17.8	94	63.5
	Jan 2024	316	5.1	446.50	552	0	79.67	92.9	21.1	77	66.8
	Feb 2024	414	7.2	446.50	552	0	78.64	96.2	28.6	80	69.1
	Mar 2024	612	10.0	446.70	555	4	77.50	120.0	42.0	100	68.6
	Apr 2024	731	12.3	448.70	593	38	77.69	120.0	50.7	100	69.4
	May 2024	737	12.0	448.70	593	0	78.80	120.0	51.7	100	70.2
	Jun 2024	717	12.1	448.70	593	0	78.77	120.0	50.3	100	70.2
	Jul 2024	689	11.2	448.00	580	-13	78.75	120.0	48.1	100	69.8
	Aug 2024	624	10.1	447.50	571	-10	78.57	120.0	43.3	100	69.4
	Sep 2024	536	9.0	447.50	570	0	78.81	120.0	37.1	100	69.3
	WY 2024	6506						450.0			
	Oct 2024	484	7.9	447.50	571	0	79.32	90.0	34.0	75	70.1
	Nov 2024	378	6.4	447.50	570	0	80.05	92.0	25.9	77	68.6
	Dec 2024	273	4.4	446.50	552	-19	80.56	114.2	17.3	95	63.6
	Jan 2025	316	5.1	446.50	552	0	79.67	92.9	21.1	77	66.8
	Feb 2025	414	7.5	446.50	552	0	78.51	95.4	28.6	79	69.0
	Mar 2025	612	10.0	446.70	555	4	77.50	120.0	42.0	100	68.6

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Upper Basin Power

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RECLAMATION

	Glen Canyon Date	1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
*	Apr 2022	179	19	11	15	10	0
H	May 2022	214	52	20	31	18	3
I	Jun 2022	222	41	18	25	16	6
S	Jul 2022	251	29	23	29	17	7
T	Aug 2022	265	39	23	31	18	6
O	Sep 2022	201	42	14	27	13	5
Summer 2022		1332	222	108	160	92	28
R	Oct 2022	175	42	0	21	10	2
I	Nov 2022	181	38	0	6	2	1
C	Dec 2022	199	40	1	6	2	4
A	Jan 2023	182	41	4	5	2	4
L	Feb 2023	172	37	5	6	0	1
*	Mar 2023	173	23	4	6	0	3
Winter 2023		1083	220	15	49	16	15
	Apr 2023	318	16	9	14	0	4
	May 2023	405	16	38	63	23	6
	Jun 2023	458	57	62	97	22	7
	Jul 2023	511	67	66	92	23	8
	Aug 2023	485	42	28	33	18	7
	Sep 2023	455	41	8	33	17	6
Summer 2023		2633	239	212	332	103	37
	Oct 2023	273	46	21	25	9	4
	Nov 2023	271	48	15	18	10	5
	Dec 2023	301	65	26	32	16	5
	Jan 2024	359	65	26	32	16	5
	Feb 2024	316	60	23	30	15	4
	Mar 2024	332	34	25	32	17	4
Winter 2024		1852	318	136	170	82	26
	Apr 2024	295	33	23	34	18	2
	May 2024	299	79	27	44	23	6
	Jun 2024	326	96	47	65	22	7
	Jul 2024	376	25	30	37	21	8
	Aug 2024	401	34	34	40	21	7
	Sep 2024	299	36	33	40	20	5
Summer 2024		1997	302	196	260	125	36
	Oct 2024	285	38	30	36	10	5
	Nov 2024	284	39	11	13	7	5
	Dec 2024	315	50	18	23	12	5
	Jan 2025	376	50	15	18	10	5
	Feb 2025	330	45	13	17	9	4
	Mar 2025	347	22	14	19	10	4
Winter 2025		1936	244	101	125	57	27

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2023 24-Month Study

Maximum Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions

— BUREAU OF —
RECLAMATION

Date	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF
*****PREDICTED SPACE*****																		
Apr 2023	1,433	522	728	17939	20622	20221	40843	1433	459	394	2286	17939	20221	40446	1500	837	0	20.0
May 2023	1,224	470	600	17631	19925	19997	39922	1218	416	245	1879	17631	19997	39506	1500	983	0	23.8
Jun 2023	752	275	536	14712	16275	19798	36072	721	203	145	1069	14712	19798	35578	1500	847	0	28.4
Jul 2023	199	29	534	11247	12010	19525	31535	137	-77	91	151	11247	19525	30923	1500	805	0	29.2
*****EFFECTIVE SPACE*****																		
Aug 2023	83	104	499	10847	11533	19174	30707	83	104	499	687	10847	19174	30707	1500	748	0	29.2
Sep 2023	105	91	491	11229	11916	18792	30709	105	91	491	687	11229	18792	30709	2270	681	0	28.9
Oct 2023	173	124	470	11706	12473	18426	30899	173	124	470	767	11706	18426	30899	3040	453	0	28.8
Nov 2023	254	150	456	11773	12633	18237	30869	254	150	456	860	11773	18237	30869	3810	615	0	28.6
Dec 2023	340	168	448	11888	12845	18205	31050	340	168	448	956	11888	18205	31050	4580	499	0	28.6
Jan 2024	492	227	444	12051	13214	17994	31208	492	227	444	1164	12051	17994	31208	5350	588	0	28.4
*****CREDITABLE SPACE*****																		
Jan 2024	492	227	444	12051	13214	17994	31208	278	217	178	673	12051	17994	30718	5350	588	0	28.4
Feb 2024	636	289	446	12321	13691	17721	31412	424	279	179	882	12321	17721	30924	1500	592	0	28.3
Mar 2024	763	346	437	12497	14043	17547	31590	552	337	169	1059	12497	17547	31103	1500	900	0	28.1
Apr 2024	748	392	385	12673	14197	17563	31760	533	384	110	1027	12673	17563	31262	1500	1038	0	28.2
May 2024	704	379	290	12487	13860	17858	31718	485	373	-9	848	12487	17858	31193	1500	1024	0	29.5
Jun 2024	629	238	365	10957	12188	18193	30381	399	221	26	647	10957	18193	29797	1500	883	0	31.6
Jul 2024	441	85	441	8956	9923	18386	28308	195	43	47	285	8956	18386	27626	1500	762	0	32.1
*****CREDITABLE SPACE*****																		
Aug 2024	268	40	453	8733	9494	18334	27829	268	40	453	762	8733	18334	27829	1500	724	0	31.8
Sep 2024	291	69	462	9076	9898	18203	28101	291	69	462	822	9076	18203	28101	2270	666	0	31.4
Oct 2024	351	128	456	9249	10183	18219	28402	351	128	456	934	9249	18219	28402	3040	476	0	31.2
Nov 2024	407	186	440	9319	10351	18069	28420	407	186	440	1032	9319	18069	28420	3810	578	0	31.1
Dec 2024	469	188	435	9436	10529	18009	28538	469	188	435	1092	9436	18009	28538	4580	510	0	31.1
Jan 2025	582	221	439	9655	10898	17795	28693	582	221	439	1243	9655	17795	28693	5350	617	0	30.9
*****CREDITABLE SPACE*****																		
Jan 2025	582	221	439	9655	10898	17795	28693	279	203	206	688	9655	17795	28138	5350	617	0	30.9
Feb 2025	688	245	443	10013	11389	17537	28926	384	227	210	822	10013	17537	28372	1500	621	0	30.7
Mar 2025	778	265	439	10261	11743	17374	29117	474	248	205	928	10261	17374	28563	1500	928	0	30.5

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