

**August 24-Month Study
Date: August 16, 2021**

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

Current Reservoir Status

Reservoir	July Inflow (unregulated) (acre-feet)	Percent of Average (%)	August 15, Midnight Elevation (feet)	August 15, Midnight Reservoir Storage (acre-feet)
Fontenelle	45,400	26	6,493.97	245,100
Flaming Gorge	63,500	30	6,022.15	3,056,000
Blue Mesa	52,800	45	7,454.96	337,200
Navajo	23,900	36	6,033.40	1,043,000
Powell	208,800	19	3,551.22	7,672,800

Expected Operations

The operation of Lake Powell and Lake Mead in this August 2021 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 2021 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2020 24-Month Study projections of the January 1, 2021, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2021.

The August 2020 24-Month Study projected the January 1, 2021, Lake Powell elevation to be below the 2021 Equalization Elevation of 3,659 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell is operating under the Upper Elevation Balancing Tier for water year 2021. With an 8.23 million acre-foot (maf) release from Lake Powell in water year 2021, the April 2021 24-Month Study projected the end of water year elevation at Lake Powell to be below 3,575 feet. Therefore, in accordance with Section 6.B.1 of the Interim Guidelines, Lake Powell will continue to release 8.23 maf through the remainder of the water year 2021.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2021. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement is also governing the operation of Lake Mead in calendar year 2021.

The August 2021 24-Month study projects the January 1, 2022, Lake Powell elevation to be less than 3,575 feet and at or above 3,525 feet and the Lake Mead elevation to be at or above 1,025 feet. Consistent with Section 6.C.1 of the Interim Guidelines the operational tier for Lake Powell in water year 2022 will be the Mid-Elevation Release Tier and the water year release volume from Lake Powell will be 7.48 maf.

The August 2021 24-Month Study projects the January 1, 2022 Lake Mead elevation to be at or below 1,075 feet and at or above 1,050 feet. Consistent with Section 2.D.1 of the Interim Guidelines, a Shortage Condition consistent with Section 2.D.1.a will govern the operation of Lake Mead for calendar year 2022. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement will also govern the operation of Lake Mead for calendar year 2022.

The 2022 operational tier determinations for Lake Powell and Lake Mead will be documented in the 2022 AOP, which is currently in development.

Consistent with the Upper Basin Drought Response Operations Agreement (DROA) provisions to protect a target elevation at Lake Powell, this August 2021 24-Month Study includes releases from the upstream initial units of the Colorado River Storage Project Act to deliver an additional 181 thousand acre-feet (kaf) to Lake Powell by the end of December 2021. The additional releases began in July and will continue to be implemented on the following schedule:

DROA Releases for the July 24MS Model Run

	Jul	Aug	Sep	Oct	Nov	Dec	Sum
	(kaf)	(kaf)	(kaf)	(kaf)	(kaf)	(kaf)	
Flaming Gorge	13	42	43	27	0	0	125
Blue Mesa	0	14	18	4	0	0	36
Navajo	0	0	0	0	10	10	20
Sum:	13	56	61	31	10	10	181

The releases detailed above are in addition to the already established releases determined by operational plans for each of the identified facilities. The additional delivery of 181 kaf is expected to raise Lake Powell’s elevation by approximately three feet. Releases from Lake Powell to Lake Mead will not be adjusted in water year 2021 as those releases are determined by annual release volumes consistent with the Interim Guidelines.

The 2021 AOP is available online at:

<https://www.usbr.gov/lc/region/g4000/aop/AOP21.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 Upper Basin Hydrology Summary is available online at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_08_ucb.pdf.

Fontenelle Reservoir -- As of August 2, 2021, the Fontenelle Reservoir pool elevation is 6494.69 feet, which amounts to 75 percent of live storage capacity. Inflows for the month of July totaled 43,000 acre-feet (af) or 26 percent of average.

Due to dry hydrologic conditions in the Upper Green River Basin, Fontenelle's releases are projected to remain at 700 cfs through mid-August 2021. Based on the latest observed inflows for the period between April and July, this year's inflows into Fontenelle Dam ranked as the 6th driest since 1966.

The August final forecast for unregulated inflows into Fontenelle for the next three months projects dry conditions. August, September, and October inflow volumes amount to 27,000 af (35 percent of average), 25,000 af (55 percent of average), and 27,000 af (56 percent of average), respectively.

The April 22, 2021, 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 next Fontenelle Working Group meeting is scheduled for 10:00 am on August 26, 2021. Due to the ongoing COVID pandemic this meeting will be held virtually via WebEX. 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 August 4, 2021, Flaming Gorge Reservoir pool elevation is 6022.91 feet, which amounts to 82 percent of live storage capacity. Unregulated inflow volume for the month of July is approximately 63,000 acre-feet (af), which is 30% of the average July unregulated inflow volume.

The August final forecast for unregulated inflows into Flaming Gorge for the next three months projects below average conditions. August, September, and October forecasted unregulated inflow volumes amount to 28,000 af (32% of average), 25,000 af (45% of average), and 32,000 af (54% of average), respectively.

The observed August water supply for the April through July unregulated inflow volume into Flaming Gorge Reservoir is 380,000 acre-feet (39% of average).

Pursuant to provisions of the Drought Response Operations Agreement (DROA), releases from Flaming Gorge are being increased to deliver an additional 125,000 af to Lake Powell by the end of October 2021. This decision was made in response to basin-wide drought and storage concerns at Lake Powell. The Flaming Gorge Operation Plan is currently being amended and releases will be made within the flexibility of the 2006 Flaming Gorge Record of Decision and within the provisions of the DROA. Reclamation and the Colorado Basin states remain committed to working together to develop future drought response plans.

Average daily release at Flaming Gorge for August is planned to be about 1,560 cfs to achieve approximately 1,700 cfs to 1,800 cfs in Reach 2.

Reclamation is planning to hold the next Flaming Gorge Working Group meeting on March 17, 2022 at 10:00 am MDT (tentative) via WebEx. 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 August 3, 2021 releases from Crystal Dam are approximately 1670 cfs. Gunnison Tunnel diversions are occurring and are currently about 1060 cfs and is near full capacity. Flows of the Gunnison River in the Black Canyon are being maintained at about 660 cfs.

The unregulated inflow volume in July to Blue Mesa was 52,800 af (45 percent of average). Unregulated Inflow volumes forecasted for Blue Mesa for the next three months (August, September, October) are projected to be: 38,000 af (60 percent of average), 28,000 af (73 percent of average) and 28,000 af (73 percent of average), respectively. The August 24-Month Study is reflective of these new forecasts.

The 2021 water year unregulated inflow volume is projected to be 519,216 af (54 percent of average). The water supply period (April-July) for 2021 observed 316,951 af of unregulated inflow (47 percent of average).

In August and September of 2021, average daily releases are scheduled to increase in response to a continual declining dry hydrologic condition for the Colorado River system. This drought operation is implemented under the Upper Basin Drought Response Operations Agreement. The maximum flexibility within the Record of Decision will be used. Notification of releases will occur prior to the scheduled release change.

Under the Aspinall FEIS/ROD, base flow minimum targets for flows measured in the Whitewater Reach of the Gunnison River are established for 6 separate categories of hydrological conditions. The category for this year is the dry category. The baseflow minimum target condition in the Whitewater Reach in years when the hydrologic category is dry, during the months of August through March, are to maintain a measured flow of 750 cfs. This is a minimum flow and all flows greater than this level are within the Aspinall FEIS/ROD. Projected flows in the Whitewater Reach under the DROA operation will range between 1000 and 1500 cfs during the months of August and September when additional water is released for DROA. This is within the constraints of the Aspinall FEIS/ROD.

Blue Mesa will not fill in water year 2021. Blue Mesa reached a peak elevation of 7,464.28 feet on June 22, 2021. The elevation is now declining and is projected to be about 7438 feet at the end of the water year. This will be down approximately 83 feet from the full pool elevation (7,519.4 feet) and water storage in Blue Mesa at this time will be approximately 248,000 acre-feet which is 30 percent of live 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 on August 19, 2021 at 1:00 pm MDT. The meeting will be virtual. Contact Erik Knight in the Grand Junction Area Office at (970) 248-0629 to get the web address for the virtual Operations Group meeting or for additional information.

Navajo Reservoir – On August 9th, the daily average release rate from Navajo Dam was 700 cfs while reservoir inflow was averaging approximately 368 cfs. The water surface elevation was 6034.71 feet above sea level. At this elevation the live storage is 1.057 maf (62 percent of live storage capacity) and the active storage is 0.395 maf (38 percent of active storage capacity). The Navajo Indian Irrigation Project (NIIP) is diverting 494 cfs. The San Juan-Chama project is diverting 6 cfs from the basin above the 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 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). Current modeling shows the release will most likely vary between 500 and 1,000 cfs to accomplish this for the remainder of summer.

Preliminary modified unregulated inflow (MUI) into Navajo in July was 24 kaf, which was 42 percent of average for the month. The volume released downstream totaled 35 kaf, which was 59 percent of average for the month. NIIP diverted a total of 45 kaf in July.

The final April-July MUI was 378 kaf, which was 51% of average.

The most probable MUI forecast for August, September, and October is 19,000 af (42 percent of average), 25,000 af (58 percent of average), and 30,000 af (64 percent of average), respectively.

In November and December of 2021, average daily releases are scheduled to increase in response to a continual declining dry hydrologic condition for the Colorado River system. This drought operation is implemented under the Upper Basin Drought Response Operations Agreement. The maximum flexibility within the Record of Decision will be used. Notification of releases will occur prior to the scheduled release change.

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 virtually on Tuesday, August 24th, at 1:00 PM.

Glen Canyon Dam / Lake Powell

Current Status

The unregulated inflow volume to Lake Powell during July was 209 thousand acre-feet (kaf) (19% of average). The release volume from Glen Canyon Dam in July was 767 kaf. The end of July elevation and storage of Lake Powell were 3553.88 feet (146 feet from full pool) and 7.87 million acre-feet (maf) (32% of live capacity), respectively.

Current Operations

The operating tier for water year 2021 (September 2020 through October 2021) was established in August 2020 as the Upper Elevation Balancing Tier, consistent with Section 6.B of the Interim Guidelines. Consistent with Section 6.B of the Interim Guidelines, Lake Powell's operations in water year 2021 will be governed by the Upper Elevation Balancing Tier. With an 8.23 maf release from Lake Powell in water year 2021, the April 2021 24-Month Study projected the end of water year elevation at Lake Powell to be below 3,575 feet. Therefore, in accordance with Section 6.B.1 of the Interim Guidelines, Lake Powell will continue to release 8.23 maf through the remainder of the water year 2021.

In August the release volume will be approximately 801 kaf, with fluctuations anticipated between about 8,252 cubic feet per second (cfs) in the nighttime to about 16,252 cfs in the daytime, and consistent with the Glen Canyon Dam, Record of Decision (dated December 2016). The anticipated release volume for September 2021 is 623,000 af.

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 1,100 cfs above or below the hourly scheduled release rate. Under system normal 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 800 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 2021 unregulated inflow to Lake Powell, issued on August 3, 2021, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume this year will be 3.44 maf (32% of average).

In addition to the August 2021 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 August 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. 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 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.

The August forecast for water year 2022 ranges from a minimum probable of 4.67 maf (43% of average) to a maximum probable of 15.9 maf (147% of average) with the most probable forecast for water year 2022 of 8.20 maf (76% of average). There is a 10% chance that inflows could be higher than the current maximum probable forecast and a 10% chance that inflows could be lower than the minimum probable forecast.

Based on the current forecast of 8.20 maf unregulated inflow for water year 2022, the August 24-Month Study projects Lake Powell elevation will end water year 2022 near 3,540.25 feet with approximately 6.91 maf in storage (28% of capacity). Note that projections of elevation and storage for water year 2022 have significant uncertainty at this point in the season. Projections of end of water year 2022 elevation and storage using the minimum and maximum probable inflow forecast from and results from the August 2021 model runs are 3,503.73 feet (4.70 maf, 19% of capacity) and 3,614.69 feet (13.21 maf, 54% of capacity), respectively. Under these scenarios, there is a 10% chance that inflows will be higher, resulting in higher elevation and storage, and 10% chance that inflows will be lower, resulting in lower elevation and storage. The annual release volume from Lake Powell during water year 2022 will be 7.48 maf as determined under Section 6.C.1 of the Interim Guidelines.

Upper Colorado River Basin Hydrology

Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. During the 21-year period 2000 to 2020, however, the unregulated inflow to Lake Powell, which is a good measure of hydrologic conditions in the Colorado River Basin, was above average in

only 4 out of the past 19 years. The period 2000-2020 is the lowest 21-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.62 maf, or 80% of the 30-year average (1981-2010). (For comparison, the 1981-2010 total water year average is 10.83 maf.) The unregulated inflow during the 2000-2020 period has ranged from a low of 2.64 maf (24% of average) in water year 2002 to a high of 15.97 maf (147% of average) in water year 2011. In water year 2018 unregulated inflow volume to Lake Powell was 4.6 maf (43% of average), the third driest year on record above 2002 and 1977. Under the current most probable forecast, the total water year 2021 unregulated inflow to Lake Powell is projected to be 3.44 maf (32% of average).

At the beginning of water year 2021, total system storage in the Colorado River Basin was 28.88 maf (48% of 59.6 maf total system capacity). This is a decrease of 2.77 maf over the total storage at the beginning of water year 2020 when total system storage was 31.64 maf (53% 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% of capacity at the beginning of 2000 to the now current level of 48% of capacity at the beginning of water year 2021. Based on current inflow forecasts, the current projected end of water year total Colorado Basin reservoir storage for water year 2021 is approximately 22.77 maf (38% of total system capacity). The actual end of water year 2021 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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The operation of Lake Powell and Lake Mead in this August 2021 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 2021 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2020 24-Month Study projections of the January 1, 2021, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2021.

The August 2020 24-Month Study projected the January 1, 2021, Lake Powell elevation to be below the 2021 Equalization Elevation of 3,659 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell is operating under the Upper Elevation Balancing Tier for water year 2021. With an 8.23 million acre-foot (maf) release from Lake Powell in water year 2021, the April 2021 24-Month Study projected the end of water year elevation at Lake Powell to be below 3,575 feet. Therefore, in accordance with Section 6.B.1 of the Interim Guidelines, Lake Powell will continue to release 8.23 maf through the remainder of the water year 2021.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2021. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement is also governing the operation of Lake Mead in calendar year 2021.

The August 2021 24-Month study projects the January 1, 2022, Lake Powell elevation to be less than 3,575 feet and at or above 3,525 feet and the Lake Mead elevation to be at or above 1,025 feet. Consistent with Section 6.C.1 of the Interim Guidelines the operational tier for Lake Powell in water year 2022 will be the Mid-Elevation Release Tier and the water year release volume from Lake Powell will be 7.48 maf.

The August 2021 24-Month Study projects the January 1, 2022 Lake Mead elevation to be at or below 1,075 feet and at or above 1,050 feet. Consistent with Section 2.D.1 of the Interim Guidelines, a Shortage Condition consistent with Section 2.D.1.a will govern the operation of Lake Mead for calendar year 2022. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement will also govern the operation of Lake Mead for calendar year 2022.

The 2022 operational tier determinations for Lake Powell and Lake Mead will be documented in the 2022 AOP, which is currently in development.

Consistent with the Upper Basin Drought Response Operations Agreement (DROA) provisions to protect a target elevation at Lake Powell of 3,525 feet, this August 2021 24-Month Study includes releases from the upstream initial units of the Colorado River Storage Project Act to deliver an additional 181 thousand acre-feet (kaf) to Lake Powell by the end of December 2021. The additional releases began in July and will continue to be implemented on the following schedule:

	Jul (kaf)	Aug (kaf)	Sep (kaf)	Oct (kaf)	Nov (kaf)	Dec (kaf)	Total (kaf)
Flaming Gorge Reservoir	13	42	43	27	0	0	125
Blue Mesa Reservoir	0	14	18	4	0	0	36
Navajo Reservoir	0	0	0	0	10	10	20
Total	13	56	61	31	10	10	181

The releases detailed above are in addition to the already established releases determined by operational plans for each of the identified facilities. The additional delivery of 181 kaf is expected to raise Lake Powell's elevation by approximately three feet. Releases from Lake Powell to Lake Mead will not be adjusted in water year 2021 as those releases are determined by annual release volumes consistent with the Interim Guidelines.

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 July was 0.209 maf or 19 percent of the 30-year average from 1981 to 2010. The August unregulated inflow forecast for Lake Powell is 0.180 maf or 36 percent of the 30-year average. The 2021 preliminary observed April through July unregulated inflow is 1.850 maf or 26 percent of average.

In this study, the calendar year 2021 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.083 maf. The calendar year 2021 diversion for the Central Arizona Project (CAP) is projected to be 1.331 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.258 maf for calendar year 2021.

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

Hoover, Davis, and Parker Dam historical gross energy figures come from PO&M reports provided by the Lower Colorado Region's Power Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Colleen Dwyer at (702) 293-8420.

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

Reservoir	Observed Inflow				Jul	Inflow Forecast			Seasonal Preliminary Observed	
	Apr	May	Jun	Jul	%Avg	Aug	Sep	Oct	Apr-Jul	%Avg
Lake Powell	289	543	810	209	19%	180	190	270	1850	26%
Fontenelle	54	76	143	45	25%	25	25	27	318	44%
Flaming Gorge	72	96	147	63	30%	25	25	32	380	39%
Blue Mesa	47	91	127	53	45%	32	28	28	317	47%
Morrow Point	49	93	132	54	44%	33	30	30	328	44%
Crystal	54	103	140	60	44%	37	34	34	357	43%
Taylor Park	6.8	16.1	24	11.0	55%	6	5.0	5.0	58	59%
Vallecito	13.6	50	44	18.8	65%	11	13	11	126	65%
Navajo	81	169	103	24	36%	17	25	30	378	51%
Lemon	2.5	13.6	8.6	3.9	59%	2	2.8	2	29	53%
McPhee	12	40	21	11.0	49%	9	8.0	6.0	84	28%
Ridgway	5.2	13.8	26	11.9	48%	7	7.0	6.0	56	55%
Deerlodge	56	192	95	8.6	10%	6	5	15	358	29%
Durango	17.9	72	89	32	48%	17	20	17	211	51%

The 2021 AOP is available for download at:

<https://www.usbr.gov/lc/region/g4000/aop/AOP21.pdf>.

The Interim Guidelines are available for download at:

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

The Colorado River DCPs are available for download at:

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The Upper Basin Hydrology Summary can be found at:

https://www.usbr.gov/uc/water/crsp/studies/24Month_08_ucb.pdf

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	41	2	74	0	74	6499.62	295
H	Sep 2020	25	2	26	35	61	6494.55	258
	WY 2020	996	15	856	137	993		
I	Oct 2020	32	1	0	55	55	6490.95	225
S	Nov 2020	33	1	17	35	52	6487.89	205
T	Dec 2020	27	1	50	1	51	6483.85	180
O	Jan 2021	25	1	48	2	51	6479.03	153
R	Feb 2021	24	0	46	0	46	6474.49	132
I	Mar 2021	40	0	51	0	51	6472.03	121
C	Apr 2021	54	1	49	0	49	6473.03	125
A	May 2021	76	1	49	0	49	6478.67	152
L	Jun 2021	143	2	42	0	42	6494.76	251
*	Jul 2021	45	2	43	0	43	6494.70	250
	Aug 2021	27	2	41	0	41	6492.37	243
	Sep 2021	25	2	36	0	36	6490.56	231
	WY 2021	552	14	471	94	565		
	Oct 2021	27	1	24	13	37	6488.91	220
	Nov 2021	29	1	46	0	46	6486.10	202
	Dec 2021	25	1	49	0	49	6481.96	177
	Jan 2022	22	1	49	0	49	6476.74	149
	Feb 2022	21	0	44	0	44	6471.63	125
	Mar 2022	37	0	49	0	49	6468.67	113
	Apr 2022	63	1	56	0	56	6470.26	119
	May 2022	120	1	81	0	81	6478.33	157
	Jun 2022	250	2	101	17	118	6498.52	287
	Jul 2022	160	3	103	27	130	6502.14	314
	Aug 2022	58	2	74	0	74	6499.77	296
	Sep 2022	43	2	37	28	65	6496.49	272
	WY 2022	855	14	715	84	799		
	Oct 2022	44	1	62	0	62	6493.85	253
	Nov 2022	43	1	65	0	65	6490.56	231
	Dec 2022	33	1	67	0	67	6485.16	196
	Jan 2023	31	1	67	0	67	6478.75	159
	Feb 2023	29	0	61	0	61	6471.99	127
	Mar 2023	53	0	67	0	67	6468.58	112
	Apr 2023	82	1	75	0	75	6470.17	119
	May 2023	169	1	92	0	92	6484.92	195
	Jun 2023	278	2	103	77	180	6498.89	290
	Jul 2023	164	3	102	26	129	6503.11	322

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	38	67	12	112	0	112	130	6027.10	3238	124
H	Sep 2020	28	64	11	98	0	98	129	6025.93	3195	112
	WY 2020	1255	1251	80	1333	62	1395				2825
I	Oct 2020	25	50	7	64	0	64	128	6025.38	3174	85
S	Nov 2020	37	55	4	54	0	54	128	6025.33	3172	82
T	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
O	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
R	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
I	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
C	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
A	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
L	Jun 2021	149	46	10	80	0	80	125	6023.54	3107	205
*	Jul 2021	64	59	13	65	0	65	124	6023.05	3089	80
	Aug 2021	28	42	12	95	0	95	122	6021.31	3026	101
	Sep 2021	25	36	10	93	0	93	119	6019.49	2962	98
	WY 2021	649	664	77	829	0	829				1411
	Oct 2021	32	42	7	76	0	76	118	6018.37	2923	91
	Nov 2021	39	56	3	51	0	51	118	6018.45	2925	72
	Dec 2021	25	49	2	49	0	49	118	6018.40	2924	68
	Jan 2022	27	54	2	49	0	49	118	6018.50	2927	66
	Feb 2022	31	54	2	44	0	44	118	6018.72	2935	60
	Mar 2022	77	89	3	49	0	49	120	6019.74	2970	109
	Apr 2022	110	103	5	48	0	48	122	6021.11	3019	213
	May 2022	165	126	7	49	0	49	124	6022.96	3086	494
	Jun 2022	290	158	10	122	0	122	125	6023.64	3110	572
	Jul 2022	185	155	13	60	0	60	128	6025.78	3189	135
	Aug 2022	68	84	12	91	0	91	128	6025.29	3171	110
	Sep 2022	46	68	11	89	0	89	126	6024.47	3141	102
	WY 2022	1095	1039	76	777	0	777				2092
	Oct 2022	51	69	7	58	0	58	127	6024.57	3144	89
	Nov 2022	49	71	3	51	0	51	127	6024.99	3160	84
	Dec 2022	33	67	2	61	0	61	127	6025.10	3164	88
	Jan 2023	40	76	2	61	0	61	128	6025.43	3176	88
	Feb 2023	44	76	2	56	0	56	129	6025.90	3194	80
	Mar 2023	95	109	3	90	0	90	129	6026.32	3209	169
	Apr 2023	125	118	5	87	0	87	130	6026.99	3234	295
	May 2023	246	169	8	114	0	114	132	6028.21	3280	628
	Jun 2023	360	262	10	182	0	182	135	6029.95	3347	581
	Jul 2023	184	150	14	66	0	66	137	6031.67	3414	140

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most 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)
*	Aug 2020	4	14	9311.83	73
H	Sep 2020	5	9	9309.62	69
	WY 2020	101	113		
I	Oct 2020	4	5	9308.95	68
S	Nov 2020	4	5	9308.44	67
T	Dec 2020	4	5	9307.73	66
O	Jan 2021	4	5	9306.89	65
R	Feb 2021	3	5	9305.99	64
I	Mar 2021	4	5	9304.90	62
C	Apr 2021	7	5	9305.94	64
A	May 2021	16	10	9310.13	70
L	Jun 2021	24	16	9314.87	78
*	Jul 2021	11	16	9311.57	72
	Aug 2021	7	15	9306.22	64
	Sep 2021	5	12	9301.52	57
	WY 2021	93	105		
	Oct 2021	5	5	9301.26	57
	Nov 2021	4	4	9301.12	57
	Dec 2021	4	4	9300.50	56
	Jan 2022	3	4	9299.58	55
	Feb 2022	3	4	9298.61	53
	Mar 2022	3	4	9297.58	52
	Apr 2022	5	6	9296.81	51
	May 2022	25	11	9306.81	65
	Jun 2022	37	15	9320.00	87
	Jul 2022	15	23	9315.56	79
	Aug 2022	8	22	9306.84	65
	Sep 2022	6	18	9298.69	53
	WY 2022	118	122		
	Oct 2022	6	13	9293.66	47
	Nov 2022	5	5	9293.53	47
	Dec 2022	5	5	9293.07	46
	Jan 2023	4	5	9292.30	45
	Feb 2023	4	5	9291.52	45
	Mar 2023	5	5	9290.91	44
	Apr 2023	9	9	9290.91	44
	May 2023	27	15	9300.42	56
	Jun 2023	42	21	9314.23	77
	Jul 2023	16	24	9309.14	69

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	26	36	1	95	0	95	7478.53	495
H	Sep 2020	23	26	1	80	2	82	7470.42	439
	WY 2020	607	619	8	806	26	908		
I	Oct 2020	20	22	0	66	0	66	7463.47	389
S	Nov 2020	25	25	0	18	0	18	7464.59	396
T	Dec 2020	21	22	0	21	0	21	7464.73	397
O	Jan 2021	22	23	0	19	0	19	7465.24	400
R	Feb 2021	20	22	0	21	0	21	7465.37	401
I	Mar 2021	29	30	0	32	0	32	7465.07	399
C	Apr 2021	47	46	1	79	0	79	7459.68	365
A	May 2021	90	83	1	96	2	98	7457.14	350
L	Jun 2021	127	119	1	77	0	77	7463.84	391
*	Jul 2021	53	58	1	98	0	98	7457.21	350
	Aug 2021	38	46	1	95	0	95	7448.43	301
	Sep 2021	28	35	1	91	0	91	7437.10	244
	WY 2021	519	531	6	714	2	715		
	Oct 2021	28	28	0	74	0	74	7426.99	198
	Nov 2021	23	23	0	16	0	16	7428.67	205
	Dec 2021	20	21	0	17	0	17	7429.63	209
	Jan 2022	18	19	0	18	0	18	7429.99	211
	Feb 2022	15	16	0	14	0	14	7430.38	213
	Mar 2022	27	28	0	20	0	20	7432.11	220
	Apr 2022	57	58	0	42	0	42	7435.55	236
	May 2022	185	171	1	159	0	159	7438.00	248
	Jun 2022	260	238	1	51	0	51	7470.40	434
	Jul 2022	93	101	1	69	0	69	7474.79	465
	Aug 2022	49	63	1	77	0	77	7472.64	450
	Sep 2022	35	47	1	70	0	70	7469.03	425
	WY 2022	810	814	6	626	0	626		
	Oct 2022	36	43	0	68	0	68	7465.14	399
	Nov 2022	31	31	0	14	0	14	7467.72	416
	Dec 2022	27	27	0	15	0	15	7469.49	428
	Jan 2023	25	26	0	15	0	15	7470.99	438
	Feb 2023	23	24	0	14	0	14	7472.44	448
	Mar 2023	37	38	0	17	0	17	7475.45	469
	Apr 2023	78	78	1	38	0	38	7480.96	509
	May 2023	199	187	1	166	0	166	7483.61	529
	Jun 2023	262	241	1	111	0	111	7499.89	657
	Jul 2023	98	107	1	86	0	86	7502.13	676

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	27	95	1	96	95	0	97	7151.26	110
H	Sep 2020	23	82	1	83	80	0	84	7149.87	109
	WY 2020	632	908	25	933	917	0	933		
I	Oct 2020	21	66	1	67	66	0	66	7151.06	110
S	Nov 2020	27	18	2	20	23	0	23	7147.26	107
T	Dec 2020	24	21	3	24	23	0	23	7148.38	108
O	Jan 2021	23	19	1	21	23	0	23	7145.78	106
R	Feb 2021	21	21	1	22	21	0	21	7146.38	106
I	Mar 2021	30	32	1	33	35	0	35	7143.99	104
C	Apr 2021	49	79	1	81	82	0	82	7141.50	103
A	May 2021	93	98	4	102	91	0	91	7155.08	113
L	Jun 2021	132	77	4	81	85	0	85	7150.02	109
*	Jul 2021	54	98	1	99	97	0	97	7152.51	111
	Aug 2021	40	95	2	97	96	0	96	7153.73	112
	Sep 2021	30	91	2	93	93	0	93	7153.73	112
	WY 2021	544	715	24	740	736	0	736		
	Oct 2021	30	74	2	76	76	0	76	7153.73	112
	Nov 2021	24	16	1	17	17	0	17	7153.73	112
	Dec 2021	21	17	1	18	18	0	18	7153.73	112
	Jan 2022	19	18	1	19	19	0	19	7153.73	112
	Feb 2022	17	14	2	16	16	0	16	7153.73	112
	Mar 2022	29	20	2	22	22	0	22	7153.73	112
	Apr 2022	67	42	10	52	52	0	52	7153.73	112
	May 2022	210	159	25	184	184	0	184	7153.73	112
	Jun 2022	280	51	20	71	71	0	71	7153.72	112
	Jul 2022	98	69	5	74	74	0	74	7153.73	112
	Aug 2022	52	77	3	80	80	0	80	7153.73	112
	Sep 2022	38	70	3	73	73	0	73	7153.73	112
	WY 2022	885	626	75	701	701	0	701		
	Oct 2022	39	68	3	71	71	0	71	7153.73	112
	Nov 2022	33	14	2	16	16	0	16	7153.73	112
	Dec 2022	28	15	2	17	17	0	17	7153.73	112
	Jan 2023	27	15	2	18	18	0	18	7153.73	112
	Feb 2023	25	14	2	16	16	0	16	7153.73	112
	Mar 2023	41	17	4	20	20	0	20	7153.73	112
	Apr 2023	89	38	11	48	48	0	48	7153.73	112
	May 2023	220	166	21	187	187	0	187	7153.73	112
	Jun 2023	280	111	18	129	129	0	129	7153.72	112
	Jul 2023	102	86	4	90	90	0	90	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most Probable Inflow*
Crystal Reservoir



— BUREAU OF —
RECLAMATION

	Date	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)
*	Aug 2020	27	97	1	97	97	0	97	6750.09	16	64	35
H	Sep 2020	25	84	1	85	59	27	85	6749.98	16	59	28
	WY 2020	683	933	51	984	905	72	984			447	535
I	Oct 2020	23	66	2	68	49	19	67	6751.39	16	42	25
S	Nov 2020	29	23	2	25	25	0	25	6751.22	16	0	24
T	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
O	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
R	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
I	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
C	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
A	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
L	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
*	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
	Aug 2021	43	96	3	99	98	0	98	6753.04	17	65	33
	Sep 2021	34	93	4	97	97	0	97	6753.04	17	55	42
	WY 2021	593	736	49	785	762	22	784			417	368
	Oct 2021	34	76	4	80	80	0	80	6753.04	17	30	50
	Nov 2021	28	17	4	21	21	0	21	6753.04	17	0	21
	Dec 2021	25	18	4	22	22	0	22	6753.04	17	0	22
	Jan 2022	22	19	3	22	22	0	22	6753.04	17	0	22
	Feb 2022	20	16	3	19	19	0	19	6753.04	17	0	19
	Mar 2022	33	22	4	26	26	0	26	6753.04	17	5	21
	Apr 2022	75	52	8	60	60	0	60	6753.04	17	42	18
	May 2022	240	184	30	214	134	79	214	6753.04	17	62	152
	Jun 2022	310	71	30	101	100	0	100	6753.03	17	61	39
	Jul 2022	110	74	12	86	86	0	86	6753.04	17	65	21
	Aug 2022	58	80	6	86	86	0	86	6753.04	17	65	21
	Sep 2022	45	73	7	80	80	0	80	6753.04	17	55	25
	WY 2022	1000	701	115	816	736	79	815			385	430
	Oct 2022	46	71	7	77	77	0	77	6753.04	17	55	22
	Nov 2022	38	16	5	21	21	0	21	6753.04	17	0	21
	Dec 2022	33	17	5	21	21	0	21	6753.04	17	0	21
	Jan 2023	31	18	4	22	22	0	22	6753.04	17	0	22
	Feb 2023	29	16	4	19	19	0	19	6753.04	17	0	19
	Mar 2023	47	20	6	26	26	0	26	6753.04	17	5	21
	Apr 2023	100	48	12	60	60	0	60	6753.04	17	42	18
	May 2023	247	187	27	214	134	80	214	6753.04	17	62	152
	Jun 2023	311	129	32	160	130	30	160	6753.03	17	61	99
	Jul 2023	110	90	9	98	98	0	98	6753.04	17	65	33

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	5	36	7635.21	54
H	Sep 2020	4	28	7620.77	30
WY 2020		167	213		
I	Oct 2020	3	2	7620.99	30
S	Nov 2020	3	0	7623.08	33
T	Dec 2020	3	0	7624.62	36
O	Jan 2021	3	0	7626.24	38
R	Feb 2021	3	0	7627.63	41
I	Mar 2021	4	0	7629.73	44
C	Apr 2021	14	1	7636.28	57
A	May 2021	50	30	7645.56	77
L	Jun 2021	44	39	7647.63	81
*	Jul 2021	19	36	7639.49	63
	Aug 2021	15	37	7627.63	41
	Sep 2021	13	30	7615.83	24
WY 2021		173	177		
	Oct 2021	11	17	7610.10	18
	Nov 2021	7	2	7614.26	22
	Dec 2021	5	2	7616.89	25
	Jan 2022	4	2	7618.58	27
	Feb 2022	4	2	7620.30	30
	Mar 2022	6	2	7623.14	34
	Apr 2022	19	2	7633.17	51
	May 2022	60	31	7646.68	79
	Jun 2022	65	43	7655.64	101
	Jul 2022	27	42	7649.50	86
	Aug 2022	17	38	7640.12	65
	Sep 2022	15	30	7632.68	50
WY 2022		240	211		
	Oct 2022	13	17	7630.02	45
	Nov 2022	9	2	7633.32	51
	Dec 2022	7	2	7635.90	56
	Jan 2023	6	2	7637.78	60
	Feb 2023	5	2	7639.43	63
	Mar 2023	9	2	7642.81	71
	Apr 2023	23	2	7651.74	91
	May 2023	69	34	7665.08	126
	Jun 2023	68	68	7664.82	125
	Jul 2023	24	42	7658.04	107

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	-15	0	16	3	44	52	6048.01	1202	46
H	Sep 2020	-7	0	17	2	21	47	6043.32	1149	44
	WY 2020	431	48	429	27	230	411			671
I	Oct 2020	6	0	6	1	9	42	6039.09	1103	42
S	Nov 2020	17	0	14	1	0	22	6038.29	1094	37
T	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
O	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
R	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
I	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
C	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
A	May 2021	169	25	125	3	34	27	6039.27	1105	65
L	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
*	Jul 2021	24	2	39	4	45	35	6035.96	1070	56
	Aug 2021	19	1	41	3	47	32	6031.93	1028	57
	Sep 2021	25	0	41	2	26	29	6030.36	1012	49
	WY 2021	504	60	447	23	231	331			557
	Oct 2021	30	1	36	1	9	22	6030.62	1015	39
	Nov 2021	25	0	20	1	0	30	6029.62	1005	42
	Dec 2021	19	0	16	1	0	30	6028.10	990	40
	Jan 2022	18	0	16	0	0	20	6027.62	985	29
	Feb 2022	20	0	18	1	0	17	6027.64	985	24
	Mar 2022	62	4	54	1	5	18	6030.52	1014	31
	Apr 2022	125	14	94	2	21	18	6035.71	1067	58
	May 2022	255	33	193	3	35	18	6048.07	1203	148
	Jun 2022	195	24	148	4	51	18	6054.41	1278	148
	Jul 2022	40	1	53	4	56	20	6052.23	1252	73
	Aug 2022	34	1	54	3	47	28	6050.15	1227	58
	Sep 2022	32	1	45	3	26	24	6049.60	1221	48
	WY 2022	855	80	747	24	250	264			739
	Oct 2022	37	1	40	2	9	20	6050.44	1231	40
	Nov 2022	26	0	20	1	0	18	6050.54	1232	35
	Dec 2022	25	0	20	1	0	18	6050.62	1233	34
	Jan 2023	22	0	18	1	0	18	6050.50	1231	33
	Feb 2023	30	0	26	1	0	17	6051.22	1240	29
	Mar 2023	96	9	79	2	5	18	6055.68	1294	42
	Apr 2023	152	18	113	2	21	18	6061.44	1366	68
	May 2023	266	35	197	4	35	127	6063.83	1397	267
	Jun 2023	212	27	185	4	51	239	6055.25	1289	391
	Jul 2023	48	2	64	4	56	21	6053.83	1271	81

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	-20	200	51	833	0	833	3599.72	4992	11723	865
H	Sep 2020	47	267	46	602	0	602	3595.98	4963	11371	628
	WY 2020	5848	6543	372	8230	0	8230				8425
I	Oct 2020	92	246	31	640	0	640	3591.72	4932	10977	667
S	Nov 2020	261	279	29	640	0	640	3587.72	4903	10615	650
T	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
O	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
R	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
I	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
C	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
A	May 2021	543	495	20	624	0	624	3560.57	4723	8366	650
L	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	678
*	Jul 2021	209	305	36	767	0	767	3553.88	4683	7866	798
	Aug 2021	180	364	34	801	0	801	3547.81	4648	7429	825
	Sep 2021	190	351	31	623	0	623	3543.80	4626	7150	639
	WY 2021	3437	3948	276	8230	0	8230				8383
	Oct 2021	270	361	21	480	0	480	3541.92	4615	7021	492
	Nov 2021	330	339	20	500	0	500	3539.44	4602	6854	503
	Dec 2021	295	327	16	600	0	600	3535.40	4581	6586	603
	Jan 2022	265	289	4	723	0	723	3529.08	4548	6180	732
	Feb 2022	255	265	4	639	0	639	3523.42	4520	5830	650
	Mar 2022	430	361	7	675	0	675	3518.45	4496	5533	691
	Apr 2022	690	540	11	601	0	601	3517.31	4491	5466	619
	May 2022	1680	1370	14	599	0	599	3528.86	4547	6167	618
	Jun 2022	2420	1941	25	628	0	628	3546.82	4642	7359	647
	Jul 2022	850	738	33	709	0	709	3546.76	4642	7356	732
	Aug 2022	365	458	33	758	0	758	3542.31	4617	7048	782
	Sep 2022	350	447	29	568	0	568	3540.25	4606	6908	585
	WY 2022	8200	7436	217	7480	0	7480				7655
	Oct 2022	445	476	20	480	0	480	3539.92	4605	6885	492
	Nov 2022	447	424	20	500	0	500	3538.59	4597	6797	503
	Dec 2022	364	374	16	600	0	600	3535.21	4580	6574	603
	Jan 2023	355	364	4	723	0	723	3529.98	4553	6237	732
	Feb 2023	399	389	4	639	0	639	3526.22	4534	6002	650
	Mar 2023	653	564	7	675	0	675	3524.43	4525	5892	691
	Apr 2023	945	770	12	601	0	601	3526.80	4537	6038	619
	May 2023	2213	1979	16	599	0	599	3545.97	4638	7300	618
	Jun 2023	2595	2370	30	628	0	628	3567.24	4765	8886	647
	Jul 2023	898	798	39	709	0	709	3567.82	4768	8932	732

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



— BUREAU OF —
RECLAMATION

	Date	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)
*	Aug 2020	833	69	72	847	13.8	36	850	673	1084.04	10349
H	Sep 2020	602	56	59	646	10.9	28	651	668	1083.21	10279
	WY 2020	8230	863	553	8263		255	8267			
I	Oct 2020	640	35	43	730	11.9	21	734	661	1081.88	10167
S	Nov 2020	640	56	42	714	12.0	11	718	656	1081.07	10100
T	Dec 2020	719	59	37	497	8.1	8	500	671	1083.72	10322
O	Jan 2021	763	72	30	593	9.6	11	616	683	1085.95	10510
R	Feb 2021	675	55	28	574	10.3	8	581	690	1087.26	10622
I	Mar 2021	700	33	31	945	15.4	15	936	675	1084.39	10378
C	Apr 2021	628	36	38	1057	17.8	22	1056	647	1079.30	9953
A	May 2021	624	28	43	1086	17.7	27	1077	616	1073.50	9480
L	Jun 2021	651	-13	51	956	16.1	33	945	592	1068.77	9102
*	Jul 2021	767	93	63	862	14.0	30	854	586	1067.65	9014
	Aug 2021	801	81	67	752	12.2	35	752	588	1067.98	9040
	Sep 2021	623	71	55	669	11.2	31	669	584	1067.25	8983
	WY 2021	8230	606	529	9435		252	9436			
	Oct 2021	480	58	40	596	9.7	25	596	576	1065.78	8867
	Nov 2021	500	71	40	624	10.5	13	624	570	1064.50	8768
	Dec 2021	600	67	34	513	8.3	8	513	577	1065.85	8873
	Jan 2022	723	95	28	531	8.6	11	531	592	1068.81	9105
	Feb 2022	639	97	26	610	11.0	9	610	597	1069.89	9191
	Mar 2022	675	111	29	909	14.8	16	909	587	1067.89	9033
	Apr 2022	601	81	36	964	16.2	18	964	567	1063.84	8717
	May 2022	599	50	41	946	15.4	21	946	545	1059.44	8380
	Jun 2022	628	29	48	906	15.2	30	906	525	1055.34	8073
	Jul 2022	709	64	59	798	13.0	35	798	518	1053.83	7962
	Aug 2022	758	81	63	766	12.5	36	766	516	1053.51	7939
	Sep 2022	568	71	51	682	11.5	32	682	508	1051.90	7820
	WY 2022	7480	876	494	8846		254	8846			
	Oct 2022	480	58	37	528	8.6	27	528	505	1051.21	7770
	Nov 2022	500	71	37	648	10.9	16	648	497	1049.52	7649
	Dec 2022	600	67	32	555	9.0	11	555	501	1050.42	7714
	Jan 2023	723	95	26	542	8.8	12	542	516	1053.49	7937
	Feb 2023	639	97	24	575	10.3	9	575	524	1055.12	8057
	Mar 2023	675	111	27	915	14.9	16	915	513	1052.91	7895
	Apr 2023	601	81	33	960	16.1	18	960	493	1048.64	7585
	May 2023	599	50	38	948	15.4	22	948	471	1043.90	7249
	Jun 2023	628	29	44	913	15.3	31	913	451	1039.43	6938
	Jul 2023	709	64	55	807	13.1	35	807	443	1037.73	6823

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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)
*	Aug 2020	847	-10	23	822	0	822	13.4	642.61	1688
H	Sep 2020	646	1	18	791	0	791	13.3	636.50	1525
	WY 2020	8263	-50	198	8063	0	8063			
I	Oct 2020	730	-12	15	725	0	725	11.8	635.65	1503
S	Nov 2020	714	-34	11	560	0	560	9.4	639.83	1613
T	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
O	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
R	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
I	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
C	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
A	May 2021	1086	-10	22	1055	0	1055	17.2	642.32	1680
L	Jun 2021	956	-2	25	901	0	901	15.1	643.33	1708
*	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
	Aug 2021	752	-11	23	747	0	747	12.2	642.25	1678
	Sep 2021	669	-11	18	754	0	754	12.7	638.00	1564
	WY 2021	9435	-143	198	9054	0	9054			
	Oct 2021	596	-11	15	700	0	700	11.4	633.00	1434
	Nov 2021	624	-23	10	540	0	540	9.1	635.00	1486
	Dec 2021	513	-11	9	375	0	375	6.1	639.51	1604
	Jan 2022	531	-17	10	443	0	443	7.2	641.80	1666
	Feb 2022	610	-9	10	591	0	591	10.6	641.80	1666
	Mar 2022	909	-7	13	855	0	855	13.9	643.05	1700
	Apr 2022	964	-8	17	941	0	941	15.8	643.00	1699
	May 2022	946	-8	22	916	0	916	14.9	643.00	1699
	Jun 2022	906	-13	25	868	0	868	14.6	643.00	1699
	Jul 2022	798	-10	25	790	0	790	12.8	642.00	1671
	Aug 2022	766	-11	23	732	0	732	11.9	642.00	1671
	Sep 2022	682	-11	18	706	0	706	11.9	640.01	1617
	WY 2022	8846	-138	197	8457	0	8457			
	Oct 2022	528	-11	15	685	0	685	11.1	633.00	1434
	Nov 2022	648	-23	10	564	0	564	9.5	635.00	1486
	Dec 2022	555	-11	9	417	0	417	6.8	639.51	1604
	Jan 2023	542	-17	10	454	0	454	7.4	641.80	1666
	Feb 2023	575	-9	10	556	0	556	10.0	641.80	1666
	Mar 2023	915	-7	13	861	0	861	14.0	643.05	1700
	Apr 2023	960	-8	17	937	0	937	15.7	643.00	1699
	May 2023	948	-8	22	917	0	917	14.9	643.00	1699
	Jun 2023	913	-13	25	874	0	874	14.7	643.00	1699
	Jul 2023	807	-10	25	799	0	799	13.0	642.00	1671

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



— BUREAU OF —
RECLAMATION

	Date	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)
*	Aug 2020	822	2	17	649	10.6	79	61	448.03	581	127	2.1
H	Sep 2020	791	4	15	542	9.1	92	164	446.61	554	111	1.9
	WY 2020	8063	98	139	6041		631	1319			1494	
I	Oct 2020	725	21	12	448	7.3	94	164	447.77	576	66	1.1
S	Nov 2020	560	20	9	357	6.0	92	123	447.50	571	92	1.5
T	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
O	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
R	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
I	Mar 2021	920	2	9	663	10.8	99	149	447.28	566	179	2.9
C	Apr 2021	1028	2	11	728	12.2	102	163	448.04	581	167	2.8
A	May 2021	1055	1	13	746	12.1	107	168	448.51	590	145	2.4
L	Jun 2021	901	22	15	706	11.9	103	87	448.55	591	141	2.4
*	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	139	2.3
	Aug 2021	747	15	17	585	9.5	108	50	447.80	576	113	1.8
	Sep 2021	754	14	15	523	8.8	96	130	447.50	570	107	1.8
	WY 2021	9054	131	140	6398		1072	1466			1485	
	Oct 2021	700	21	12	461	7.5	99	144	447.50	571	66	1.1
	Nov 2021	540	18	9	357	6.0	95	92	447.50	570	94	1.6
	Dec 2021	375	20	7	242	3.9	98	62	446.50	552	84	1.4
	Jan 2022	443	17	6	302	4.9	106	41	446.50	552	138	2.2
	Feb 2022	591	7	8	397	7.2	74	113	446.50	552	124	2.2
	Mar 2022	855	7	9	613	10.0	106	121	446.70	555	147	2.4
	Apr 2022	941	11	11	700	11.8	76	117	448.70	593	147	2.5
	May 2022	916	9	13	682	11.1	91	126	448.70	593	110	1.8
	Jun 2022	868	6	16	688	11.6	89	68	448.70	593	116	2.0
	Jul 2022	790	15	17	663	10.8	91	35	448.00	580	123	2.0
	Aug 2022	732	15	17	602	9.8	91	35	447.50	571	101	1.6
	Sep 2022	706	14	15	510	8.6	89	95	447.50	570	99	1.7
	WY 2022	8457	161	139	6217		1107	1049			1349	
	Oct 2022	685	21	12	480	7.8	91	117	447.50	571	89	1.4
	Nov 2022	564	18	9	364	6.1	89	114	447.50	571	115	1.9
	Dec 2022	417	20	7	257	4.2	106	82	446.50	552	110	1.8
	Jan 2023	454	17	6	310	5.0	105	45	446.50	552	138	2.2
	Feb 2023	556	7	8	401	7.2	32	115	446.50	552	124	2.2
	Mar 2023	861	7	9	619	10.1	105	123	446.70	555	147	2.4
	Apr 2023	937	11	11	706	11.9	64	120	448.70	593	147	2.5
	May 2023	917	9	13	694	11.3	79	128	448.70	593	110	1.8
	Jun 2023	874	6	16	704	11.8	76	71	448.70	593	116	2.0
	Jul 2023	799	15	17	680	11.1	79	39	448.00	580	123	2.0

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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 End of Month (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
*	Aug 2020	847	13.8	1084.04	10349	-50	438.65	1502.1	328.8	94	388.2
H	Sep 2020	646	10.9	1083.21	10279	-70	441.07	1264.0	250.3	81	387.6
WY 2020		8263							3256.3		
I	Oct 2020	730	11.9	1081.88	10167	-111	439.76	1154.0	284.7	74	390.2
S	Nov 2020	714	12.0	1081.07	10100	-68	437.77	1303.0	275.5	85	385.6
T	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
O	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
R	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
I	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
C	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
A	May 2021	1086	17.7	1073.50	9480	-473	423.99	1042.9	433.7	69	399.5
L	Jun 2021	956	16.1	1068.77	9102	-378	419.04	1451.0	366.8	100	383.7
*	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
	Aug 2021	752	12.2	1067.98	9040	26	415.31	1322.1	280.7	93	373.2
	Sep 2021	669	11.2	1067.25	8983	-57	416.83	1306.1	248.0	93	370.8
WY 2021		9435							3654.4		
	Oct 2021	596	9.7	1065.78	8867	-115	418.31	1278.1	221.5	91	371.6
	Nov 2021	624	10.5	1064.50	8768	-100	421.66	861.1	239.0	62	382.8
	Dec 2021	513	8.3	1065.85	8873	105	419.28	910.0	195.1	65	380.1
	Jan 2022	531	8.6	1068.81	9105	232	419.94	833.0	198.0	58	372.8
	Feb 2022	610	11.0	1069.89	9191	85	420.49	927.9	230.6	65	378.2
	Mar 2022	909	14.8	1067.89	9033	-158	417.46	1206.0	342.4	85	376.7
	Apr 2022	964	16.2	1063.84	8717	-316	414.38	1136.0	359.5	82	372.8
	May 2022	946	15.4	1059.44	8380	-337	410.32	1094.0	352.5	81	372.7
	Jun 2022	906	15.2	1055.34	8073	-307	404.13	1315.0	328.6	100	362.6
	Jul 2022	798	13.0	1053.83	7962	-111	401.68	1298.0	288.8	100	361.8
	Aug 2022	766	12.5	1053.51	7939	-23	401.10	1281.0	275.6	100	359.8
	Sep 2022	682	11.5	1051.90	7820	-118	400.79	1281.0	243.0	100	356.2
WY 2022		8846							3274.5		
	Oct 2022	528	8.6	1051.21	7770	-50	404.66	933.0	188.2	74	356.4
	Nov 2022	648	10.9	1049.52	7649	-122	404.47	1076.0	232.6	86	359.1
	Dec 2022	555	9.0	1050.42	7714	65	401.90	1097.0	197.0	87	354.7
	Jan 2023	542	8.8	1053.49	7937	224	402.97	1052.0	193.1	74	356.1
	Feb 2023	575	10.3	1055.12	8057	120	405.27	960.2	210.4	67	366.1
	Mar 2023	915	14.9	1052.91	7895	-162	404.31	987.8	337.0	70	368.2
	Apr 2023	960	16.1	1048.64	7585	-310	400.69	972.5	348.7	70	363.2
	May 2023	948	15.4	1043.90	7249	-336	396.37	935.7	342.9	69	361.8
	Jun 2023	913	15.3	1039.43	6938	-310	388.58	1337.5	316.7	100	346.9
	Jul 2023	807	13.1	1037.73	6823	-116	385.85	1327.9	279.1	100	346.0

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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
*	Aug 2020	822	13.4	642.61	1688	-8	141.10	255.0	104.0	100	126.5
H	Sep 2020	791	13.3	636.50	1525	-163	133.32	255.0	98.1	100	123.9
WY 2020		8063							1015.1		
I	Oct 2020	725	11.8	635.65	1503	-22	134.17	215.5	91.1	85	125.5
S	Nov 2020	560	9.4	639.83	1613	110	140.14	168.3	67.8	66	121.2
T	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
O	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
R	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
I	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
C	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
A	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
L	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
*	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
	Aug 2021	747	12.2	642.25	1678	-29	140.07	255.0	94.3	100	126.2
	Sep 2021	754	12.7	638.00	1564	-114	137.22	255.0	93.2	100	123.6
WY 2021		9054							1140.3		
	Oct 2021	700	11.4	633.00	1434	-130	133.08	227.0	83.9	89	119.9
	Nov 2021	540	9.1	635.00	1486	51	132.53	159.8	64.5	63	119.4
	Dec 2021	375	6.1	639.51	1604	118	137.12	154.7	46.3	61	123.5
	Jan 2022	443	7.2	641.80	1666	62	140.01	156.3	55.9	61	126.1
	Feb 2022	591	10.6	641.80	1666	0	139.68	156.6	74.4	61	125.8
	Mar 2022	855	13.9	643.05	1700	34	139.07	194.1	107.1	76	125.3
	Apr 2022	941	15.8	643.00	1699	-2	139.00	249.9	117.9	98	125.2
	May 2022	916	14.9	643.00	1699	0	139.29	255.0	114.9	100	125.5
	Jun 2022	868	14.6	643.00	1699	0	139.40	255.0	109.0	100	125.6
	Jul 2022	790	12.8	642.00	1671	-27	139.53	255.0	99.3	100	125.7
	Aug 2022	732	11.9	642.00	1671	0	139.38	255.0	92.0	100	125.6
	Sep 2022	706	11.9	640.01	1617	-54	138.40	255.0	88.1	100	124.7
WY 2022		8457							1053.1		
	Oct 2022	685	11.1	633.00	1434	-183	134.19	227.0	82.8	89	120.9
	Nov 2022	564	9.5	635.00	1486	51	132.37	159.8	67.2	63	119.3
	Dec 2022	417	6.8	639.51	1604	118	136.80	154.7	51.4	61	123.2
	Jan 2023	454	7.4	641.80	1666	62	139.93	156.3	57.2	61	126.1
	Feb 2023	556	10.0	641.80	1666	0	139.95	156.6	70.0	61	126.1
	Mar 2023	861	14.0	643.05	1700	34	139.02	194.1	107.9	76	125.3
	Apr 2023	937	15.7	643.00	1699	-2	139.02	249.9	117.4	98	125.2
	May 2023	917	14.9	643.00	1699	0	139.28	255.0	115.1	100	125.5
	Jun 2023	874	14.7	643.00	1699	0	139.36	255.0	109.8	100	125.6
	Jul 2023	799	13.0	642.00	1671	-27	139.47	255.0	100.3	100	125.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 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
*	Aug 2020	649	10.6	448.03	581	8	80.50	120.0	45.0	100	69.3
H	Sep 2020	542	9.1	446.61	554	-27	78.70	120.0	37.7	100	69.6
WY 2020		6041							416.0		
I	Oct 2020	448	7.3	447.77	576	22	81.85	90.0	32.2	75	71.8
S	Nov 2020	357	6.0	447.50	571	-5	81.16	90.0	23.9	75	66.9
T	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
O	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
R	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
I	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
C	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
A	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
L	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
*	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
	Aug 2021	585	9.5	447.80	576	-8	75.39	120.0	38.3	100	65.6
	Sep 2021	523	8.8	447.50	570	-6	75.03	120.0	34.0	100	65.1
WY 2021		6398							438.4		
	Oct 2021	461	7.5	447.50	571	0	76.14	92.9	30.3	77	65.8
	Nov 2021	357	6.0	447.50	570	0	76.19	92.0	23.2	77	65.0
	Dec 2021	242	3.9	446.50	552	-19	74.82	110.3	15.1	92	62.1
	Jan 2022	302	4.9	446.50	552	0	75.12	93.9	19.1	78	63.5
	Feb 2022	397	7.2	446.50	552	0	75.15	93.2	25.8	78	64.9
	Mar 2022	613	10.0	446.70	555	4	74.01	120.0	39.7	100	64.7
	Apr 2022	700	11.8	448.70	593	38	75.08	120.0	46.1	100	65.8
	May 2022	682	11.1	448.70	593	0	76.05	120.0	45.3	100	66.4
	Jun 2022	688	11.6	448.70	593	0	76.05	120.0	45.7	100	66.5
	Jul 2022	663	10.8	448.00	580	-13	75.71	120.0	43.8	100	66.1
	Aug 2022	602	9.8	447.50	571	-10	75.13	120.0	39.4	100	65.5
	Sep 2022	510	8.6	447.50	570	0	74.89	120.0	33.2	100	65.0
WY 2022		6217							406.6		
	Oct 2022	480	7.8	447.50	571	0	76.19	91.9	31.7	77	65.9
	Nov 2022	364	6.1	447.50	571	0	76.14	93.0	23.7	78	65.0
	Dec 2022	257	4.2	446.50	552	-19	74.77	111.3	16.0	93	62.4
	Jan 2023	310	5.0	446.50	552	0	75.12	93.9	19.7	78	63.6
	Feb 2023	401	7.2	446.50	552	0	75.10	94.3	26.0	79	64.9
	Mar 2023	619	10.1	446.70	555	4	74.01	120.0	40.0	100	64.7
	Apr 2023	706	11.9	448.70	593	38	75.08	120.0	46.5	100	65.8
	May 2023	694	11.3	448.70	593	0	76.05	120.0	46.1	100	66.5
	Jun 2023	704	11.8	448.70	593	0	76.05	120.0	46.8	100	66.5
	Jul 2023	680	11.1	448.00	580	-13	75.71	120.0	45.0	100	66.2

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most Probable Inflow*

Upper Basin Power



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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
*	Aug 2020	367	43	28	32	19	7
H	Sep 2020	262	37	23	28	11	2
	Summer 2020	1806	254	146	182	102	37
I	Oct 2020	277	24	18	22	9	0
S	Nov 2020	275	20	5	7	3	1
T	Dec 2020	304	24	5	7	3	3
O	Jan 2021	319	24	5	6	3	3
R	Feb 2021	278	21	5	6	2	3
I	Mar 2021	285	20	8	11	6	3
	Winter 2021	1738	132	46	60	25	14
C	Apr 2021	254	19	20	28	17	3
A	May 2021	249	36	24	32	20	3
L	Jun 2021	260	30	20	30	19	3
*	Jul 2021	303	24	27	34	20	3
	Aug 2021	300	32	25	35	17	3
	Sep 2021	230	31	23	34	17	2
	Summer 2021	1596	172	140	192	109	17
	Oct 2021	177	25	18	27	14	2
	Nov 2021	183	17	4	6	4	3
	Dec 2021	217	16	4	6	4	3
	Jan 2022	259	16	4	7	4	3
	Feb 2022	226	15	4	6	3	3
	Mar 2022	234	16	5	8	5	3
	Winter 2022	1296	106	39	60	33	16
	Apr 2022	207	16	10	19	10	3
	May 2022	210	16	40	66	23	5
	Jun 2022	228	41	13	25	17	7
	Jul 2022	263	20	19	27	15	8
	Aug 2022	278	30	22	29	15	6
	Sep 2022	208	30	20	26	14	3
	Summer 2022	1393	154	124	192	95	31
	Oct 2022	175	19	19	25	13	4
	Nov 2022	181	17	4	6	4	5
	Dec 2022	216	21	4	6	4	4
	Jan 2023	258	21	4	6	4	4
	Feb 2023	226	19	4	6	3	3
	Mar 2023	237	30	5	7	5	4
	Winter 2023	1056	97	35	49	28	21
	Apr 2023	210	29	11	17	10	4
	May 2023	216	38	48	67	23	5
	Jun 2023	237	62	33	46	22	7
	Jul 2023	275	23	26	32	17	8

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2021 24-Month Study

Most Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions



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RECLAMATION

Date	Flaming Gorge	Blue Mesa	Navajo	Lake Powell	Upper Basin Total	Lake Mead	Total	Flaming Gorge	Blue Mesa	Navajo	Tot or Max Allow	Lake Powell	Lake Mead	BOM Space Total	Mead Sched Rel	Mead FC Rel	Sys Cont	
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF	
*** PREDICTED SPACE ***								*** CREDITABLE SPACE ***										
Aug 2021	749	479	632	16456	18315	18606	36921	749	479	632	1859	16456	18606	36921	1500	752	0	23.5
Sep 2021	827	529	673	16893	18922	18580	37502	827	529	673	2029	16893	18580	37502	2270	669	0	22.9
Oct 2021	904	586	689	17172	19352	18637	37989	904	586	689	2180	17172	18637	37989	3040	596	0	22.4
Nov 2021	954	632	686	17301	19573	18753	38326	954	632	686	2272	17301	18753	38326	3810	624	0	22.2
Dec 2021	970	624	697	17468	19759	18852	38611	970	624	697	2291	17468	18852	38611	4580	513	0	22.1
Jan 2022	996	620	712	17736	20063	18747	38811	996	620	712	2328	17736	18747	38811	5350	531	0	22.0
*** EFFECTIVE SPACE ***								*** CREDITABLE SPACE ***										
Jan 2022	996	620	712	17736	20063	18747	38811	463	282	446	1191	17736	18747	37674	5350	531	0	22.0
Feb 2022	1,021	619	716	18142	20497	18515	39012	485	282	450	1217	18142	18515	37873	1500	610	0	21.7
Mar 2022	1,037	617	716	18492	20862	18429	39291	498	281	449	1229	18492	18429	38151	1500	909	0	21.3
Apr 2022	1,014	609	688	18789	21099	18587	39687	471	275	414	1159	18789	18587	38536	1500	964	0	21.1
May 2022	958	593	634	18856	21042	18903	39945	408	259	338	1006	18856	18903	38765	1500	946	0	21.7
Jun 2022	854	582	498	18155	20089	19240	39329	292	233	164	689	18155	19240	38084	1500	906	0	23.1
Jul 2022	699	395	423	16963	18480	19547	38027	125	24	33	182	16963	19547	36691	1500	798	0	23.0
*** EFFECTIVE SPACE ***								*** CREDITABLE SPACE ***										
Aug 2022	593	365	449	16966	18374	19658	38032	593	365	449	1408	16966	19658	38032	1500	766	0	22.6
Sep 2022	630	380	474	17274	18758	19681	38439	630	380	474	1484	17274	19681	38439	2270	682	0	22.2
Oct 2022	684	405	480	17414	18983	19800	38783	684	405	480	1569	17414	19800	38783	3040	528	0	21.9
Nov 2022	699	430	471	17437	19036	19850	38886	699	430	471	1600	17437	19850	38886	3810	648	0	21.7
Dec 2022	706	413	469	17525	19114	19971	39085	706	413	469	1589	17525	19971	39085	4580	555	0	21.6
Jan 2023	737	401	468	17748	19355	19906	39262	737	401	468	1607	17748	19906	39262	5350	542	0	21.6
*** EFFECTIVE SPACE ***								*** CREDITABLE SPACE ***										
Jan 2023	737	401	468	17748	19355	19906	39262	438	275	224	937	17748	19906	38592	5350	542	0	21.6
Feb 2023	761	391	470	18085	19707	19683	39390	459	266	225	950	18085	19683	38718	1500	575	0	21.5
Mar 2023	776	381	461	18320	19939	19563	39502	471	257	215	943	18320	19563	38827	1500	915	0	21.3
Apr 2023	775	360	407	18430	19973	19725	39698	466	236	155	857	18430	19725	39012	1500	960	0	21.3
May 2023	743	320	335	18284	19683	20035	39718	428	195	59	682	18284	20035	39002	1500	948	0	22.4
Jun 2023	622	301	304	17022	18248	20371	38619	295	163	-11	447	17022	20371	37840	1500	913	0	23.9
Jul 2023	460	172	413	15436	16481	20682	37162	118	12	42	172	15436	20682	36290	1500	807	0	23.9

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