



To: All Annual Operating Plan Recipients

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Subject: January 2023 Most Probable 24-Month Study

The operation of Lake Powell and Lake Mead in the January 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 draft 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.

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

The 2022 Plan provisions to protect a target elevation at Lake Powell of 3,525 feet through adjusting Glen Canyon Dam monthly volume releases have been incorporated into the January 2023 24-Month Study and include an adjusted monthly release volume pattern for Glen Canyon Dam that will hold back a total of 0.523 maf in Lake Powell from December 2022 through April 2023. There are continued discussions when and how that same amount of water (0.523 maf) will be released later in the water year. The annual release volume from Lake Powell for WY 2023 will continue to be 7.00 maf, or higher, according to the provisions outlined below. If future projections indicate the monthly adjustments are insufficient to protect Powell's elevation, Reclamation will again consider additional water releases from the upstream initial units of the Colorado River Storage Project according to the provisions of the 2022 Plan.

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

Using the approach described in the immediately preceding paragraph, the August 2022 24-Month Study projected the January 1, 2023, Lake Powell elevation to be less than 3,525 feet. Consistent with Section 6.D.1 of the Interim Guidelines, Lake Powell's operations in WY 2023 will be governed by the Lower Elevation Balancing Tier with an initial projected WY release volume of 7.00 maf. Because the 2022 operations were designed to protect critical elevations at Lake Powell, Reclamation will implement Lower Elevation Balancing Tier operations in a way that continues to protect these critical elevations, or preserves the benefits of the 2022 operations to protect Lake Powell, in WY 2023. Specifically, Reclamation modeled operations in WY 2023 as follows:

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 Glen Canyon Dam annual release has initially been set to 7.00 maf and in April 2023 Reclamation will evaluate hydrologic conditions to determine if balancing releases may be appropriate under the conditions established in the 2007 Interim Guidelines;
- Balancing releases will be limited (with a minimum of 7.00 maf) to protect Lake Powell from declining below elevation 3,525 feet at the end of December 2023;
- Balancing releases will take into account operational neutrality of the 0.480 maf that was retained in Lake Powell under the May 2022 action.¹ Any Lake Powell balancing release volume will be calculated as if the 0.480 maf had been delivered to Lake Mead in WY 2022; and
- The modeling approach for WY 2023 will apply to 2024.

Consistent with the operating approach described above, the January 2023 24-Month Study projects a WY release volume of 7.40 maf. Consistent with the provisions of the 2007 Interim Guidelines, and to preserve the benefits to Glen Canyon Dam facilities from 2022 Operations into 2023 and 2024, Reclamation will consult with the Basin States on monthly and annual operations. Reclamation will also ensure all appropriate consultations with Basin Tribes, the Republic of Mexico, other federal agencies, water users, and non-governmental organizations with respect to implementation of these monthly and annual operations.

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

The August 2022 24-Month Study projected the January 1, 2023 Lake Mead elevation, determined as if the 0.480 maf had been delivered to Lake Mead in 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 will also take place in CY 2023.

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

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows. The observed unregulated inflow into Lake Powell for the month of December was 0.281 maf or 88 percent of the 30-year average from 1991 to 2020. The January 2023 unregulated inflow forecast for Lake Powell is 0.280 maf or 83 percent of the 30-year average. The 2023 April through July unregulated inflow forecast is 6.700 maf or 105 percent of average.

In this study, the CY 2023 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.023 maf. The CY 2023 diversion for the Central Arizona Project (CAP) is projected to be 1.009 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.214 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 Colleen Dwyer at (702) 293-8420.

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 in thousand acre-feet (kaf):

Reservoir	Observed Inflow (kaf)				Dec	Inflow Forecast (kaf)				
	Sep	Oct	Nov	Dec	%Avg	Jan	Feb	Mar	Apr-Ju	%Avg
Lake Powell	245	437	349	281	88%	280	300	480	6700	105%
Fontenelle	29	40	33	28	88%	25	24	42	700	95%
Flaming Gorge	32	41	40	26	79%	34	35	85	950	98%
Blue Mesa	31	32	26	24	95%	20	18	30	605	95%
Morrow Point	31	33	27	26	97%	22	20	33	655	95%
Crystal	33	36	29	28	91%	25	23	38	735	95%
Taylor Park	5.2	5.5	3.9	4.3	95%	3.6	3.2	3.5	97	103%
Vallecito	11.5	14.2	6.8	5.1	89%	4.5	4	6	170	96%
Navajo	22	44	23	17.2	83%	18	22	50	570	90%
Lemon	2.6	3.5	1.37	0.89	89%	0.8	0.7	1.1	48	100%
McPhee	5.8	8.8	3.3	3.4	91%	3.2	3.4	11	260	102%
Ridgway	6.4	7.3	4.4	3.9	88%	3.5	3.1	4.5	90	98%
Deerlodge	4.2	23	24	21	91%	22	22	63	1540	129%
Durango	18.1	22	13.6	10.9	80%	11	10	15	385	100%

The draft 2023 AOP is available online at:

https://www.usbr.gov/uc/water/rsrvs/ops/aop/AOP23_draft.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_01_ucb.pdf.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	29	1	51	0	51	6483.90	180
H	Feb 2022	23	1	46	0	46	6479.63	157
I	Mar 2022	46	1	50	0	50	6478.63	151
S	Apr 2022	50	1	5	44	49	6478.74	152
T	May 2022	63	1	47	8	55	6479.96	158
O	Jun 2022	241	2	82	0	82	6503.59	315
R	Jul 2022	102	3	83	11	93	6504.34	321
I	Aug 2022	56	2	67	1	68	6502.43	306
C	Sep 2022	29	2	61	0	61	6498.08	274
WY 2022		744	15	617	67	685		
A	Oct 2022	40	1	22	39	61	6494.58	249
L	Nov 2022	33	1	10	48	58	6490.90	224
*	Dec 2022	28	1	56	2	58	6486.14	194
	Jan 2023	25	1	58	0	58	6480.22	160
	Feb 2023	24	0	16	37	53	6474.22	130
	Mar 2023	42	0	58	0	58	6470.27	114
	Apr 2023	70	1	82	0	82	6467.05	101
	May 2023	135	1	88	0	88	6477.69	147
	Jun 2023	325	2	102	86	187	6499.23	283
	Jul 2023	170	3	102	31	133	6503.77	317
	Aug 2023	58	2	84	0	84	6500.04	289
	Sep 2023	40	2	71	0	71	6495.46	255
WY 2023		990	14	750	244	993		
	Oct 2023	45	1	74	0	74	6491.10	226
	Nov 2023	42	1	66	0	66	6487.27	201
	Dec 2023	32	1	61	0	61	6482.21	171
	Jan 2024	31	1	61	0	61	6476.21	140
	Feb 2024	29	0	58	0	58	6469.53	111
	Mar 2024	51	0	61	0	61	6466.70	100
	Apr 2024	77	1	35	3	38	6475.98	138
	May 2024	166	1	92	0	92	6488.86	211
	Jun 2024	301	2	105	105	209	6501.61	300
	Jul 2024	146	3	101	25	126	6503.90	318
	Aug 2024	59	2	71	0	71	6502.01	303
	Sep 2024	39	2	65	0	65	6498.19	275
WY 2024		1018	15	851	133	984		
	Oct 2024	45	1	68	0	68	6494.85	251
	Nov 2024	42	1	65	0	65	6491.32	227
	Dec 2024	32	1	68	0	68	6485.67	191

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	33	55	2	52	0	52	117	6017.75	2901	80
H	Feb 2022	30	54	2	47	0	47	117	6017.87	2905	70
I	Mar 2022	74	83	3	52	0	52	118	6018.65	2932	111
S	Apr 2022	66	62	5	51	0	51	118	6018.81	2938	179
T	May 2022	88	88	7	139	48	187	114	6015.77	2769	570
O	Jun 2022	274	113	9	110	12	121	113	6015.25	2752	465
R	Jul 2022	125	110	11	79	0	79	106	6016.09	2780	137
I	Aug 2022	58	70	11	105	0	105	104	6014.73	2735	124
C	Sep 2022	32	63	9	112	0	112	102	6013.01	2680	125
	WY 2022	897	837	70	927	60	987				2138
A	Oct 2022	41	65	6	111	0	111	100	6011.45	2630	142
L	Nov 2022	40	63	3	102	0	102	98	6010.19	2590	132
*	Dec 2022	26	57	2	107	0	107	96	6008.59	2540	267
	Jan 2023	34	67	1	108	0	108	95	6007.27	2500	130
	Feb 2023	35	64	2	98	0	98	93	6006.15	2465	120
	Mar 2023	85	101	2	76	0	76	94	6006.88	2488	139
	Apr 2023	110	122	4	73	0	73	96	6008.29	2531	313
	May 2023	225	178	6	211	0	211	94	6007.07	2493	851
	Jun 2023	425	287	9	65	0	65	103	6013.59	2698	625
	Jul 2023	190	153	12	56	0	56	106	6016.14	2781	156
	Aug 2023	65	91	11	80	0	80	106	6016.13	2781	98
	Sep 2023	46	77	10	79	0	79	106	6015.81	2770	96
	WY 2023	1323	1327	67	1165	0	1165				3069
	Oct 2023	52	81	6	68	0	68	106	6015.99	2776	94
	Nov 2023	51	75	3	65	0	65	106	6016.19	2783	98
	Dec 2023	34	63	2	68	0	68	106	6016.03	2778	93
	Jan 2024	42	72	2	69	0	69	106	6016.08	2779	94
	Feb 2024	43	72	2	63	0	63	106	6016.26	2785	88
	Mar 2024	85	95	3	49	0	49	108	6017.53	2827	123
	Apr 2024	111	72	4	48	0	48	109	6018.10	2846	251
	May 2024	239	165	7	216	0	216	106	6016.42	2791	729
	Jun 2024	389	297	9	60	0	60	115	6022.92	3010	427
	Jul 2024	161	141	12	55	0	55	118	6024.93	3081	115
	Aug 2024	66	78	12	76	0	76	118	6024.66	3071	95
	Sep 2024	43	69	10	77	0	77	117	6024.19	3054	90
	WY 2024	1316	1282	72	915	0	915				2298
	Oct 2024	52	75	7	71	0	71	117	6024.11	3052	97
	Nov 2024	50	73	3	63	0	63	117	6024.32	3059	93
	Dec 2024	34	70	2	71	0	71	117	6024.25	3057	96

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 2023 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)
*	Jan 2022	4	4	9302.29	58
H	Feb 2022	3	4	9301.88	58
I	Mar 2022	4	4	9301.56	57
S	Apr 2022	8	6	9302.92	59
T	May 2022	27	12	9312.55	74
O	Jun 2022	26	19	9316.61	81
R	Jul 2022	11	15	9314.18	77
I	Aug 2022	8	14	9310.35	70
C	Sep 2022	5	8	9308.87	68
WY 2022		110	100		
A	Oct 2022	6	6	9308.80	68
L	Nov 2022	4	5	9308.13	67
*	Dec 2022	4	5	9307.68	66
	Jan 2023	4	5	9306.89	65
	Feb 2023	3	5	9305.70	63
	Mar 2023	4	5	9304.89	62
	Apr 2023	7	6	9305.56	63
	May 2023	28	12	9315.55	79
	Jun 2023	45	18	9329.93	106
	Jul 2023	17	21	9327.94	102
	Aug 2023	9	18	9323.30	93
	Sep 2023	7	18	9317.28	82
WY 2023		138	124		
	Oct 2023	7	9	9316.13	80
	Nov 2023	5	5	9316.10	80
	Dec 2023	4	5	9315.37	79
	Jan 2024	5	5	9315.26	79
	Feb 2024	4	5	9314.79	78
	Mar 2024	5	5	9314.67	78
	Apr 2024	9	9	9314.67	78
	May 2024	26	15	9320.89	89
	Jun 2024	40	18	9332.12	111
	Jul 2024	15	24	9327.69	102
	Aug 2024	8	18	9322.50	92
	Sep 2024	7	18	9316.42	81
WY 2024		135	137		
	Oct 2024	7	9	9315.26	79
	Nov 2024	5	5	9315.23	79
	Dec 2024	4	5	9314.49	77

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	20	20	0	14	0	14	7435.60	236
H	Feb 2022	18	19	0	14	0	14	7436.57	241
I	Mar 2022	30	30	0	32	0	32	7436.17	239
S	Apr 2022	62	60	0	44	0	46	7438.94	252
T	May 2022	177	162	1	79	0	79	7454.56	335
O	Jun 2022	133	126	1	69	0	69	7463.76	391
R	Jul 2022	59	63	1	84	0	84	7460.15	368
I	Aug 2022	57	64	1	89	0	89	7455.69	341
C	Sep 2022	31	33	1	55	28	82	7446.72	292
WY 2022		661	652	6	566	28	595		
A	Oct 2022	32	32	0	0	58	58	7441.74	266
L	Nov 2022	26	27	0	1	10	11	7444.87	282
*	Dec 2022	24	25	0	6	10	17	7446.44	290
	Jan 2023	20	21	0	18	0	18	7447.08	294
	Feb 2023	18	20	0	14	0	14	7448.05	299
	Mar 2023	30	31	0	18	0	18	7450.36	311
	Apr 2023	55	54	1	50	0	50	7451.00	315
	May 2023	190	174	1	131	13	144	7456.17	344
	Jun 2023	265	238	1	28	0	28	7486.84	553
	Jul 2023	95	99	1	76	0	76	7489.61	575
	Aug 2023	51	60	1	79	0	79	7486.98	554
	Sep 2023	32	43	1	75	0	75	7482.57	521
WY 2023		838	824	7	497	92	588		
	Oct 2023	36	38	0	70	0	70	7478.20	489
	Nov 2023	30	30	0	15	0	15	7480.25	504
	Dec 2023	26	27	0	16	0	16	7481.82	515
	Jan 2024	25	25	0	16	0	16	7483.09	525
	Feb 2024	23	24	0	14	0	14	7484.35	534
	Mar 2024	38	38	0	18	0	18	7486.91	554
	Apr 2024	78	78	1	46	0	46	7490.93	585
	May 2024	204	193	1	80	0	80	7504.57	697
	Jun 2024	251	229	1	152	0	152	7513.30	773
	Jul 2024	86	95	2	99	0	99	7512.62	767
	Aug 2024	55	65	1	100	0	100	7508.53	731
	Sep 2024	35	46	1	94	0	94	7502.77	681
WY 2024		887	889	9	719	0	719		
	Oct 2024	36	38	1	84	0	84	7497.13	635
	Nov 2024	31	31	0	29	0	29	7497.31	636
	Dec 2024	26	27	0	80	0	80	7490.76	584

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	21	14	1	15	16	0	16	7144.25	105
H	Feb 2022	19	14	1	15	14	0	14	7145.30	105
I	Mar 2022	31	32	2	33	30	0	30	7149.87	109
S	Apr 2022	65	46	3	50	47	0	47	7153.31	112
T	May 2022	186	79	9	88	89	0	89	7152.08	111
O	Jun 2022	134	69	1	70	71	0	71	7150.86	110
R	Jul 2022	60	84	1	85	84	0	84	7152.31	111
I	Aug 2022	58	89	1	90	90	0	90	7152.25	111
C	Sep 2022	31	82	1	83	78	0	78	7157.81	115
	WY 2022	685	595	24	619	614	0	614		
A	Oct 2022	33	58	1	59	60	0	60	7156.10	114
L	Nov 2022	27	11	1	12	21	0	21	7143.98	104
*	Dec 2022	26	17	2	18	20	0	20	7141.82	103
	Jan 2023	22	18	2	20	11	0	11	7153.73	112
	Feb 2023	20	14	2	16	16	0	16	7153.73	112
	Mar 2023	33	18	3	21	21	0	21	7153.73	112
	Apr 2023	65	50	10	60	60	0	60	7153.73	112
	May 2023	207	144	17	161	161	0	161	7153.73	112
	Jun 2023	285	28	20	48	48	0	48	7153.72	112
	Jul 2023	98	76	3	79	79	0	79	7153.73	112
	Aug 2023	54	79	3	82	82	0	82	7153.73	112
	Sep 2023	34	75	2	77	77	0	77	7153.73	112
	WY 2023	904	588	65	654	656	0	656		
	Oct 2023	37	70	1	71	71	0	71	7153.73	112
	Nov 2023	31	15	1	16	16	0	16	7153.73	112
	Dec 2023	27	16	1	17	17	0	17	7153.73	112
	Jan 2024	26	16	1	17	17	0	17	7153.73	112
	Feb 2024	25	14	2	16	16	0	16	7153.73	112
	Mar 2024	40	18	2	20	20	0	20	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	152	14	166	165	0	165	7153.72	112
	Jul 2024	90	99	4	103	103	0	103	7153.73	112
	Aug 2024	56	100	1	101	101	0	101	7153.73	112
	Sep 2024	36	94	1	95	95	0	95	7153.73	112
	WY 2024	948	719	61	780	780	0	780		
	Oct 2024	37	84	1	85	85	0	85	7153.73	112
	Nov 2024	32	29	1	30	30	0	30	7153.73	112
	Dec 2024	27	80	1	81	80	0	80	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 2023 24-Month Study

Most Probable Inflow*
Crystal Reservoir



— BUREAU OF —
RECLAMATION

		Unreg Inflow	Morrow Release	Side Inflow	Total Inflow	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage	Tunnel Flow	Below Tunnel Flow
	Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
*	Jan 2022	25	16	4	21	20	0	21	6750.38	16	1	18
H	Feb 2022	22	14	3	17	18	0	18	6746.37	15	0	17
I	Mar 2022	36	30	4	34	32	1	32	6752.56	17	6	25
S	Apr 2022	73	47	8	54	54	1	54	6752.33	17	31	24
T	May 2022	203	89	17	105	92	13	106	6751.40	16	59	48
O	Jun 2022	145	71	10	82	80	2	81	6752.67	17	62	21
R	Jul 2022	64	84	5	89	90	0	90	6747.68	15	65	28
I	Aug 2022	62	90	4	94	92	0	93	6751.52	17	66	31
C	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
A	Oct 2022	36	60	3	63	53	10	63	6751.29	16	41	21
L	Nov 2022	29	21	2	23	21	2	23	6752.92	17	0	21
*	Dec 2022	28	20	2	22	22	0	22	6751.64	17	2	21
	Jan 2023	25	11	3	14	13	0	13	6753.04	17	0	13
	Feb 2023	23	16	3	19	8	11	19	6753.04	17	0	19
	Mar 2023	38	21	5	26	26	0	26	6753.04	17	5	21
	Apr 2023	75	60	10	70	70	0	70	6753.04	17	42	28
	May 2023	240	161	33	194	134	59	194	6753.04	17	62	132
	Jun 2023	315	48	30	78	78	0	78	6753.03	17	61	17
	Jul 2023	105	79	7	86	86	0	86	6753.04	17	65	21
	Aug 2023	58	82	4	86	86	0	86	6753.04	17	65	21
	Sep 2023	37	77	3	80	80	0	80	6753.04	17	55	25
WY 2023		1009	656	105	762	678	82	761			398	361
	Oct 2023	43	71	6	77	52	24	77	6753.04	17	55	22
	Nov 2023	36	16	5	21	21	0	21	6753.04	17	0	21
	Dec 2023	32	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2024	31	17	5	22	22	0	22	6753.04	17	0	22
	Feb 2024	29	16	4	20	20	0	20	6753.04	17	0	20
	Mar 2024	46	20	6	26	26	0	26	6753.04	17	5	21
	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	165	28	193	130	64	193	6753.03	17	61	132
	Jul 2024	98	103	8	111	111	0	111	6753.04	17	65	46
	Aug 2024	63	101	7	108	108	0	108	6753.04	17	65	43
	Sep 2024	42	95	6	101	101	0	101	6753.04	17	55	46
WY 2024		1064	780	116	896	807	88	895			410	485
	Oct 2024	43	85	6	91	56	35	91	6753.04	17	55	36
	Nov 2024	37	30	5	35	35	0	35	6753.04	17	0	35
	Dec 2024	32	80	5	85	85	0	85	6753.04	17	0	85

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	4	0	7626.39	39
H	Feb 2022	3	0	7628.13	42
I	Mar 2022	7	0	7631.90	48
S	Apr 2022	27	2	7644.01	73
T	May 2022	53	33	7652.10	92
O	Jun 2022	26	34	7648.50	83
R	Jul 2022	19	32	7642.57	70
I	Aug 2022	18	28	7637.64	59
C	Sep 2022	12	26	7630.15	45
WY 2022		185	160		
A	Oct 2022	14	3	7635.84	56
L	Nov 2022	7	0	7639.00	62
*	Dec 2022	5	0	7641.15	67
	Jan 2023	4	2	7642.11	69
	Feb 2023	4	2	7643.13	71
	Mar 2023	6	2	7644.90	75
	Apr 2023	19	2	7652.06	92
	May 2023	68	34	7665.07	126
	Jun 2023	65	66	7664.52	124
	Jul 2023	18	42	7655.29	100
	Aug 2023	12	38	7644.32	74
	Sep 2023	11	30	7635.38	55
WY 2023		233	220		
	Oct 2023	13	17	7633.11	51
	Nov 2023	8	2	7636.26	57
	Dec 2023	7	2	7638.76	62
	Jan 2024	6	2	7640.69	66
	Feb 2024	5	2	7642.15	69
	Mar 2024	10	2	7645.71	77
	Apr 2024	23	2	7654.42	98
	May 2024	68	41	7664.60	125
	Jun 2024	62	63	7664.16	123
	Jul 2024	21	41	7656.13	102
	Aug 2024	15	38	7646.61	79
	Sep 2024	16	29	7640.52	66
WY 2024		254	240		
	Oct 2024	13	16	7638.80	62
	Nov 2024	9	2	7642.12	69
	Dec 2024	7	2	7644.41	74

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	14	0	10	0	0	22	6019.21	859	38
H	Feb 2022	14	0	11	1	1	20	6018.00	848	33
I	Mar 2022	41	2	32	1	4	22	6018.57	853	38
S	Apr 2022	123	17	84	2	17	20	6023.53	898	44
T	May 2022	167	30	114	3	38	18	6029.39	954	104
O	Jun 2022	47	7	50	3	37	24	6027.89	939	61
R	Jul 2022	44	5	54	3	39	35	6025.41	916	55
I	Aug 2022	53	5	56	3	38	30	6023.95	902	49
C	Sep 2022	22	1	35	2	23	40	6020.65	872	56
WY 2022		574	66	484	20	200	296			595
A	Oct 2022	44	2	32	1	5	33	6019.84	865	51
L	Nov 2022	23	0	16	1	0	19	6019.52	862	37
*	Dec 2022	17	0	13	0	0	22	6018.45	852	37
	Jan 2023	18	0	16	0	0	20	6017.98	848	31
	Feb 2023	22	0	19	1	0	17	6018.22	850	27
	Mar 2023	50	4	42	1	5	19	6020.19	868	34
	Apr 2023	115	14	84	2	19	18	6025.08	913	63
	May 2023	255	35	186	3	33	18	6038.48	1045	163
	Jun 2023	170	22	149	4	48	18	6045.85	1124	161
	Jul 2023	30	2	52	4	52	25	6043.14	1094	77
	Aug 2023	22	1	47	3	44	35	6039.82	1059	63
	Sep 2023	23	0	41	2	24	31	6038.28	1043	54
WY 2023		790	80	697	22	231	274			797
	Oct 2023	35	2	38	1	9	22	6038.71	1047	45
	Nov 2023	27	1	20	1	0	18	6038.83	1048	35
	Dec 2023	24	0	19	1	0	18	6038.80	1048	33
	Jan 2024	22	0	18	1	0	18	6038.69	1047	31
	Feb 2024	29	1	25	1	0	17	6039.33	1054	29
	Mar 2024	92	10	74	1	6	18	6043.86	1102	41
	Apr 2024	147	18	107	2	21	19	6049.60	1166	70
	May 2024	251	34	190	3	36	19	6060.49	1299	154
	Jun 2024	187	25	163	4	52	21	6067.05	1385	165
	Jul 2024	33	2	51	5	55	27	6064.34	1349	78
	Aug 2024	24	1	45	4	46	33	6061.43	1311	62
	Sep 2024	31	2	43	3	25	28	6060.41	1298	54
WY 2024		902	96	792	26	250	260			799
	Oct 2024	35	2	37	2	9	24	6060.64	1301	47
	Nov 2024	30	1	22	1	0	21	6060.65	1301	39
	Dec 2024	24	0	19	1	0	22	6060.38	1297	37

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	249	269	4	673	0	673	3531.52	4561	6335	681
H	Feb 2022	215	235	4	540	0	540	3526.97	4538	6048	556
I	Mar 2022	329	327	7	574	0	574	3523.13	4519	5812	584
S	Apr 2022	594	490	12	502	0	502	3522.77	4517	5791	510
T	May 2022	1382	1212	14	598	0	598	3531.69	4561	6346	599
O	Jun 2022	1284	1198	25	598	0	598	3539.81	4604	6878	595
R	Jul 2022	491	463	28	672	0	672	3536.20	4551	6212	672
I	Aug 2022	368	444	27	713	0	713	3531.69	4529	5938	722
C	Sep 2022	245	420	24	547	0	547	3529.33	4517	5797	562
	WY 2022	6084	6107	203	6999	0	6999				7066
A	Oct 2022	437	535	17	480	0	480	3529.92	4520	5832	494
L	Nov 2022	349	394	17	498	0	498	3528.02	4511	5720	507
*	Dec 2022	281	358	13	550	0	550	3524.75	4496	5531	559
	Jan 2023	280	344	4	500	0	500	3522.16	4484	5383	507
	Feb 2023	300	354	4	480	0	480	3520.02	4475	5263	489
	Mar 2023	480	436	6	485	0	485	3519.11	4471	5212	498
	Apr 2023	800	694	10	690	0	690	3519.01	4470	5206	707
	May 2023	2100	1871	13	690	0	690	3537.43	4557	6288	712
	Jun 2023	2800	2121	25	720	0	720	3556.80	4659	7562	741
	Jul 2023	1000	896	32	820	0	820	3557.38	4662	7602	840
	Aug 2023	350	452	32	855	0	855	3551.51	4630	7199	873
	Sep 2023	320	429	29	629	0	629	3548.33	4613	6987	644
	WY 2023	9498	8883	200	7398	0	7398				7570
	Oct 2023	417	465	20	480	0	480	3547.84	4610	6955	493
	Nov 2023	452	443	19	500	0	500	3546.77	4604	6884	501
	Dec 2023	361	379	15	600	0	600	3543.40	4587	6666	602
	Jan 2024	350	364	4	723	0	723	3538.09	4560	6330	730
	Feb 2024	397	398	4	639	0	639	3534.41	4542	6102	648
	Mar 2024	614	501	7	675	0	675	3531.63	4528	5934	688
	Apr 2024	920	737	12	601	0	601	3533.53	4538	6049	618
	May 2024	2060	1751	15	599	0	599	3550.06	4622	7102	621
	Jun 2024	2423	1904	27	628	0	628	3566.52	4714	8258	649
	Jul 2024	711	671	35	709	0	709	3565.59	4709	8190	729
	Aug 2024	371	483	34	758	0	758	3561.64	4686	7904	776
	Sep 2024	316	432	31	568	0	568	3559.47	4674	7749	583
	WY 2024	9392	8527	224	7480	0	7480				7637
	Oct 2024	417	483	21	643	0	643	3557.07	4660	7581	656
	Nov 2024	450	453	20	642	0	642	3554.26	4645	7387	643
	Dec 2024	361	449	16	715	0	715	3550.41	4624	7125	717

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 2023 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)
*	Jan 2022	673	60	25	640	10.4	11	639	583	1067.09	8970
H	Feb 2022	540	58	23	590	10.6	10	590	581	1066.78	8946
I	Mar 2022	574	41	25	1010	16.4	17	1009	555	1061.49	8536
S	Apr 2022	502	30	33	1027	17.3	17	1026	522	1054.69	8026
T	May 2022	598	8	40	1083	17.6	25	1075	489	1047.69	7517
O	Jun 2022	598	16	47	889	14.9	29	877	467	1043.02	7187
R	Jul 2022	672	70	45	822	13.4	31	814	458	1040.92	7041
I	Aug 2022	713	183	48	573	9.3	25	567	473	1044.28	7275
C	Sep 2022	547	118	48	539	9.1	22	545	476	1045.03	7328
	WY 2022	6999	771	463	8899		223	8888			
A	Oct 2022	480	94	46	418	6.8	16	434	482	1046.28	7417
L	Nov 2022	498	18	40	713	12.0	9	714	467	1043.02	7187
*	Dec 2022	550	63	32	438	7.1	8	439	475	1044.82	7313
	Jan 2023	500	87	22	458	7.5	7	458	481	1046.15	7407
	Feb 2023	480	88	21	537	9.7	3	537	482	1046.26	7415
	Mar 2023	485	107	22	961	15.6	13	961	457	1040.83	7035
	Apr 2023	690	72	30	1074	18.0	20	1074	435	1035.85	6695
	May 2023	690	43	36	1049	17.1	26	1049	412	1030.53	6340
	Jun 2023	720	22	44	949	15.9	31	949	395	1026.47	6076
	Jul 2023	820	56	41	834	13.6	31	834	393	1026.03	6047
	Aug 2023	855	66	45	787	12.8	31	787	397	1026.87	6102
	Sep 2023	629	62	44	705	11.8	23	705	392	1025.71	6027
	WY 2023	7398	779	422	8922		218	8940			
	Oct 2023	480	69	41	539	8.8	15	539	389	1025.05	5984
	Nov 2023	500	68	36	565	9.5	7	565	387	1024.47	5947
	Dec 2023	600	69	30	466	7.6	7	466	397	1026.91	6104
	Jan 2024	723	87	21	573	9.3	10	573	409	1029.90	6299
	Feb 2024	639	88	19	546	9.5	7	546	419	1032.11	6444
	Mar 2024	675	107	21	885	14.4	13	885	410	1030.15	6315
	Apr 2024	601	72	28	1015	17.1	14	1015	387	1024.58	5954
	May 2024	599	43	34	992	16.1	18	992	362	1018.58	5576
	Jun 2024	628	22	41	901	15.1	26	901	343	1013.71	5278
	Jul 2024	709	56	39	789	12.8	29	789	337	1012.27	5191
	Aug 2024	758	66	42	762	12.4	31	762	337	1012.10	5180
	Sep 2024	568	62	41	672	11.3	27	672	330	1010.38	5077
	WY 2024	7480	810	392	8705		204	8705			
	Oct 2024	643	69	39	489	8.0	22	489	340	1012.92	5230
	Nov 2024	642	68	34	586	9.9	12	586	345	1014.13	5303
	Dec 2024	715	69	28	523	8.5	8	523	358	1017.57	5513

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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)
*	Jan 2022	640	-20	9	523	0	523	8.5	641.60	1661
H	Feb 2022	590	-26	8	555	0	555	10.0	641.69	1663
I	Mar 2022	1010	-38	10	931	0	931	15.1	642.79	1693
S	Apr 2022	1027	-31	13	975	0	975	16.4	643.08	1701
T	May 2022	1083	-20	14	1041	0	1041	16.9	643.35	1708
O	Jun 2022	889	-30	14	842	0	842	14.1	643.47	1712
R	Jul 2022	822	-26	12	770	0	770	12.5	643.97	1725
I	Aug 2022	573	-13	16	575	0	575	9.3	642.87	1695
C	Sep 2022	539	-6	16	617	0	617	10.4	639.17	1595
	WY 2022	8899	-228	151	8495	0	8495			
A	Oct 2022	418	-2	14	540	0	542	8.8	633.78	1454
L	Nov 2022	713	-15	13	516	0	516	8.7	640.22	1623
*	Dec 2022	438	4	13	436	0	436	7.1	639.97	1617
	Jan 2023	458	-12	9	388	0	388	6.3	641.80	1666
	Feb 2023	537	-11	8	513	0	513	9.2	642.00	1671
	Mar 2023	961	-9	10	913	0	913	14.9	643.05	1700
	Apr 2023	1074	-13	13	1050	0	1050	17.6	643.00	1699
	May 2023	1049	-13	14	1022	0	1022	16.6	643.00	1699
	Jun 2023	949	-18	14	917	0	917	15.4	643.00	1699
	Jul 2023	834	-19	12	829	0	829	13.5	642.00	1671
	Aug 2023	787	-17	15	754	0	754	12.3	642.00	1671
	Sep 2023	705	-8	16	735	0	735	12.3	640.01	1617
	WY 2023	8922	-133	151	8613	0	8615			
	Oct 2023	539	-11	14	697	0	697	11.3	633.00	1434
	Nov 2023	565	-16	13	485	0	485	8.1	635.00	1486
	Dec 2023	466	-5	13	330	0	330	5.4	639.51	1604
	Jan 2024	573	-12	9	490	0	490	8.0	641.80	1666
	Feb 2024	546	-11	8	528	0	528	9.2	641.80	1666
	Mar 2024	885	-9	10	832	0	832	13.5	643.05	1700
	Apr 2024	1015	-13	13	991	0	991	16.7	643.00	1699
	May 2024	992	-13	14	965	0	965	15.7	643.00	1699
	Jun 2024	901	-18	14	869	0	869	14.6	643.00	1699
	Jul 2024	789	-19	12	785	0	785	12.8	642.00	1671
	Aug 2024	762	-17	15	730	0	730	11.9	642.00	1671
	Sep 2024	672	-8	16	702	0	702	11.8	640.01	1617
	WY 2024	8705	-151	151	8403	0	8403			
	Oct 2024	489	-11	14	647	0	647	10.5	633.00	1434
	Nov 2024	586	-16	13	506	0	506	8.5	635.00	1486
	Dec 2024	523	-5	13	387	0	387	6.3	639.51	1604

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 2023 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)
*	Jan 2022	523	-3	6	342	5.6	96	89	446.38	550	114	1.9
H	Feb 2022	555	12	8	445	8.0	4	103	446.44	551	127	2.3
I	Mar 2022	931	2	9	658	10.7	97	133	448.02	580	170	2.8
S	Apr 2022	975	6	11	737	12.4	100	141	447.11	563	161	2.7
T	May 2022	1041	8	13	741	12.0	106	150	448.68	593	145	2.4
O	Jun 2022	842	18	15	679	11.4	103	60	448.30	586	154	2.6
R	Jul 2022	770	31	17	639	10.4	106	19	448.84	596	150	2.4
I	Aug 2022	575	40	17	482	7.8	106	16	448.16	583	120	2.0
C	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	
A	Oct 2022	542	26	12	393	6.4	106	66	447.14	564	67	1.1
L	Nov 2022	516	3	9	336	5.6	103	67	447.09	563	89	1.5
*	Dec 2022	436	12	7	277	4.5	101	63	447.06	562	87	1.4
	Jan 2023	388	14	6	269	4.4	70	61	446.50	552	115	1.9
	Feb 2023	513	5	8	420	7.6	11	62	447.00	561	130	2.3
	Mar 2023	913	4	9	642	10.4	99	165	446.70	555	168	2.7
	Apr 2023	1050	8	11	737	12.4	96	165	448.70	593	156	2.6
	May 2023	1022	6	13	740	12.0	99	164	448.70	593	121	2.0
	Jun 2023	917	7	16	733	12.3	96	67	448.70	593	128	2.1
	Jul 2023	829	14	17	709	11.5	99	20	448.00	580	130	2.1
	Aug 2023	754	13	17	630	10.2	99	20	447.50	571	103	1.7
	Sep 2023	735	12	15	540	9.1	96	86	447.50	570	96	1.6
	WY 2023	8615	124	139	6425		1077	1006			1388	
	Oct 2023	697	18	12	470	7.6	99	125	447.50	571	68	1.1
	Nov 2023	485	17	9	356	6.0	78	53	447.50	570	84	1.4
	Dec 2023	330	18	7	253	4.1	81	21	446.50	552	84	1.4
	Jan 2024	490	14	6	301	4.9	91	100	446.50	552	130	2.1
	Feb 2024	528	5	8	399	6.9	11	108	446.50	552	117	2.0
	Mar 2024	832	4	9	601	9.8	93	121	446.70	555	139	2.3
	Apr 2024	991	8	11	712	12.0	94	133	448.70	593	138	2.3
	May 2024	965	6	13	717	11.7	90	139	448.70	593	104	1.7
	Jun 2024	869	7	16	712	12.0	87	49	448.70	593	109	1.8
	Jul 2024	785	14	17	678	11.0	90	16	448.00	580	116	1.9
	Aug 2024	730	13	17	618	10.1	90	17	447.50	571	96	1.6
	Sep 2024	702	12	15	528	8.9	87	74	447.50	570	93	1.6
	WY 2024	8403	135	139	6345		991	955			1279	
	Oct 2024	647	18	12	479	7.8	90	76	447.50	571	84	1.4
	Nov 2024	506	17	9	368	6.2	87	53	447.50	570	108	1.8
	Dec 2024	387	18	7	262	4.3	90	60	446.50	552	104	1.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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 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
*	Jan 2022	640	10.4	1067.09	8970	55	420.00	993.0	236.8	67	370.2
H	Feb 2022	590	10.6	1066.78	8946	-24	420.26	994.0	220.4	67	373.2
I	Mar 2022	1010	16.4	1061.49	8536	-409	413.69	898.0	375.9	62	372.3
S	Apr 2022	1027	17.3	1054.69	8026	-511	405.75	863.0	380.5	61	370.4
T	May 2022	1083	17.6	1047.69	7517	-509	397.38	1082.0	391.7	80	361.7
O	Jun 2022	889	14.9	1043.02	7187	-330	396.77	1076.9	315.1	81	354.6
R	Jul 2022	822	13.4	1040.92	7041	-146	392.29	1236.6	287.9	94	350.1
I	Aug 2022	573	9.3	1044.28	7275	234	399.70	1224.8	200.6	94	349.9
C	Sep 2022	539	9.1	1045.03	7328	53	400.65	1157.3	188.5	88	349.7
WY 2022		8899							3240.9		
A	Oct 2022	418	6.8	1046.28	7417	88	402.36	924.5	145.8	70	348.8
L	Nov 2022	713	12.0	1043.02	7187	-230	395.39	948.8	254.6	72	357.1
*	Dec 2022	438	7.1	1044.82	7313	126	403.20	975.8	152.9	72	348.9
	Jan 2023	458	7.5	1046.15	7407	94	397.43	866.8	163.7	64	357.1
	Feb 2023	537	9.7	1046.26	7415	8	397.26	895.3	191.0	66	355.9
	Mar 2023	961	15.6	1040.83	7035	-380	394.23	875.2	346.9	66	360.9
	Apr 2023	1074	18.0	1035.85	6695	-340	388.83	830.6	383.9	65	357.6
	May 2023	1049	17.1	1030.53	6340	-355	383.02	891.7	362.6	72	345.7
	Jun 2023	949	15.9	1026.47	6076	-264	377.76	944.5	322.6	78	339.9
	Jul 2023	834	13.6	1026.03	6047	-29	374.30	1130.4	279.2	94	334.8
	Aug 2023	787	12.8	1026.87	6102	55	374.18	1207.4	261.7	100	332.6
	Sep 2023	705	11.8	1025.71	6027	-75	374.67	1194.6	233.2	100	330.9
WY 2023		8922							3098.2		
	Oct 2023	539	8.8	1025.05	5984	-42	379.17	826.9	180.0	69	334.1
	Nov 2023	565	9.5	1024.47	5947	-37	380.86	815.0	191.2	69	338.6
	Dec 2023	466	7.6	1026.91	6104	157	379.66	824.2	158.7	69	340.6
	Jan 2024	573	9.3	1029.90	6299	195	380.03	854.8	193.1	70	337.0
	Feb 2024	546	9.5	1032.11	6444	146	381.86	873.1	185.4	70	339.5
	Mar 2024	885	14.4	1030.15	6315	-129	379.88	1068.1	304.1	87	343.5
	Apr 2024	1015	17.1	1024.58	5954	-361	375.74	1038.5	338.3	87	333.4
	May 2024	992	16.1	1018.58	5576	-379	369.99	1019.6	321.9	87	324.4
	Jun 2024	901	15.1	1013.71	5278	-298	365.23	788.8	291.0	81	322.8
	Jul 2024	789	12.8	1012.27	5191	-87	360.55	960.3	248.6	100	314.9
	Aug 2024	762	12.4	1012.10	5180	-11	360.08	958.8	239.0	100	313.5
	Sep 2024	672	11.3	1010.38	5077	-103	359.79	944.2	208.8	100	310.9
WY 2024		8705							2860.1		
	Oct 2024	489	8.0	1012.92	5230	153	364.68	752.3	159.5	78	326.0
	Nov 2024	586	9.9	1014.13	5303	73	369.22	720.8	191.6	74	326.9
	Dec 2024	523	8.5	1017.57	5513	211	368.15	867.7	167.6	86	320.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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
*	Jan 2022	523	8.5	641.60	1661	88	139.02	159.6	64.6	63	123.6
H	Feb 2022	555	10.0	641.69	1663	2	140.45	174.9	72.1	69	130.0
I	Mar 2022	931	15.1	642.79	1693	30	140.26	253.3	118.7	99	127.4
S	Apr 2022	975	16.4	643.08	1701	8	137.93	255.0	124.0	100	127.1
T	May 2022	1041	16.9	643.35	1708	7	140.42	241.8	132.1	95	126.9
O	Jun 2022	842	14.1	643.47	1712	3	139.18	251.6	108.5	99	128.9
R	Jul 2022	770	12.5	643.97	1725	14	144.37	255.0	99.3	100	129.1
I	Aug 2022	575	9.3	642.87	1695	-30	141.93	253.3	74.7	99	129.9
C	Sep 2022	617	10.4	639.17	1595	-100	137.50	248.2	78.5	97	127.3
WY 2022		8495							1074.5		
A	Oct 2022	540	8.8	633.78	1454	-141	134.35	185.9	66.9	73	123.8
L	Nov 2022	516	8.7	640.22	1623	169	141.13	154.7	62.5	61	121.1
*	Dec 2022	436	7.1	639.97	1617	-7	140.89	159.6	53.9	63	123.5
	Jan 2023	388	6.3	641.80	1666	50	140.66	157.9	49.2	62	126.7
	Feb 2023	513	9.2	642.00	1671	5	140.36	193.1	64.8	76	126.5
	Mar 2023	913	14.9	643.05	1700	29	138.83	255.0	114.3	100	125.1
	Apr 2023	1050	17.6	643.00	1699	-2	138.39	255.0	130.9	100	124.7
	May 2023	1022	16.6	643.00	1699	0	138.71	255.0	127.7	100	125.0
	Jun 2023	917	15.4	643.00	1699	0	139.11	255.0	114.9	100	125.3
	Jul 2023	829	13.5	642.00	1671	-27	139.29	255.0	104.1	100	125.5
	Aug 2023	754	12.3	642.00	1671	0	139.24	255.0	94.6	100	125.4
	Sep 2023	735	12.3	640.01	1617	-54	138.22	255.0	91.5	100	124.5
WY 2023		8613							1075.1		
	Oct 2023	697	11.3	633.00	1434	-183	134.11	227.0	84.2	89	120.8
	Nov 2023	485	8.1	635.00	1486	51	132.93	159.8	58.0	63	119.8
	Dec 2023	330	5.4	639.51	1604	118	137.47	154.7	40.9	61	123.9
	Jan 2024	490	8.0	641.80	1666	62	139.66	156.3	61.7	61	125.8
	Feb 2024	528	9.2	641.80	1666	0	140.29	160.0	66.7	63	126.4
	Mar 2024	832	13.5	643.05	1700	34	139.20	194.1	104.4	76	125.4
	Apr 2024	991	16.7	643.00	1699	-2	138.72	249.9	123.8	98	125.0
	May 2024	965	15.7	643.00	1699	0	139.01	255.0	120.8	100	125.2
	Jun 2024	869	14.6	643.00	1699	0	139.39	255.0	109.1	100	125.6
	Jul 2024	785	12.8	642.00	1671	-27	139.56	255.0	98.7	100	125.7
	Aug 2024	730	11.9	642.00	1671	0	139.40	255.0	91.6	100	125.6
	Sep 2024	702	11.8	640.01	1617	-54	138.44	255.0	87.5	100	124.7
WY 2024		8403							1047.5		
	Oct 2024	647	10.5	633.00	1434	-183	134.43	227.0	78.4	89	121.1
	Nov 2024	506	8.5	635.00	1486	51	132.77	159.8	60.5	63	119.6
	Dec 2024	387	6.3	639.51	1604	118	137.03	154.7	47.8	61	123.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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
*	Jan 2022	342	5.6	446.38	550	-18	80.46	93.9	23.0	78	67.4
H	Feb 2022	445	8.0	446.44	551	1	80.54	86.8	30.9	72	69.4
I	Mar 2022	658	10.7	448.02	580	30	77.95	112.3	45.8	94	69.6
S	Apr 2022	737	12.4	447.11	563	-17	79.08	120.0	50.8	100	68.9
T	May 2022	741	12.0	448.68	593	30	84.09	120.0	51.5	100	69.5
O	Jun 2022	679	11.4	448.30	586	-7	78.23	120.0	47.2	100	69.4
R	Jul 2022	639	10.4	448.84	596	10	82.19	120.0	44.7	100	69.9
I	Aug 2022	482	7.8	448.16	583	-13	83.58	120.0	33.4	100	69.3
C	Sep 2022	458	7.7	447.96	579	-4	81.26	120.0	31.4	100	68.7
WY 2022		6231							431.0		
A	Oct 2022	393	6.4	447.14	564	-15	81.28	91.9	27.2	77	69.1
L	Nov 2022	336	5.6	447.09	563	-1	82.54	82.0	22.8	68	68.0
*	Dec 2022	277	4.5	447.06	562	0	82.38	60.0	18.5	50	66.8
	Jan 2023	269	4.4	446.50	552	-11	80.37	93.9	18.2	78	67.4
	Feb 2023	420	7.6	447.00	561	9	78.72	95.2	29.0	79	69.2
	Mar 2023	642	10.4	446.70	555	-6	77.55	120.0	44.1	100	68.6
	Apr 2023	737	12.4	448.70	593	38	77.65	120.0	51.2	100	69.4
	May 2023	740	12.0	448.70	593	0	78.78	120.0	51.9	100	70.2
	Jun 2023	733	12.3	448.70	593	0	78.67	120.0	51.4	100	70.1
	Jul 2023	709	11.5	448.00	580	-13	78.62	120.0	49.4	100	69.7
	Aug 2023	630	10.2	447.50	571	-10	78.53	120.0	43.7	100	69.4
	Sep 2023	540	9.1	447.50	570	0	78.78	120.0	37.4	100	69.3
WY 2023		6425							444.7		
	Oct 2023	470	7.6	447.50	571	0	79.43	91.0	33.0	76	70.2
	Nov 2023	356	6.0	447.50	570	0	80.24	92.0	24.5	77	68.8
	Dec 2023	253	4.1	446.50	552	-19	80.73	112.3	16.1	94	63.7
	Jan 2024	301	4.9	446.50	552	0	79.81	92.9	20.1	77	66.9
	Feb 2024	399	6.9	446.50	552	0	78.76	95.4	27.6	79	69.2
	Mar 2024	601	9.8	446.70	555	4	77.58	120.0	41.3	100	68.7
	Apr 2024	712	12.0	448.70	593	38	77.80	120.0	49.5	100	69.6
	May 2024	717	11.7	448.70	593	0	78.92	120.0	50.5	100	70.3
	Jun 2024	712	12.0	448.70	593	0	78.81	120.0	50.0	100	70.2
	Jul 2024	678	11.0	448.00	580	-13	78.82	120.0	47.3	100	69.9
	Aug 2024	618	10.1	447.50	571	-10	78.61	120.0	42.9	100	69.5
	Sep 2024	528	8.9	447.50	570	0	78.87	120.0	36.6	100	69.3
WY 2024		6345							439.5		
	Oct 2024	479	7.8	447.50	571	0	79.36	91.0	33.6	76	70.2
	Nov 2024	368	6.2	447.50	570	0	80.14	92.0	25.2	77	68.7
	Dec 2024	262	4.3	446.50	552	-19	80.65	112.3	16.7	94	63.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 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
*	Jan 2022	252	19	3	5	1	4
H	Feb 2022	201	17	3	4	1	3
I	Mar 2022	208	19	8	9	4	3
	Winter 2022	1259	123	34	50	17	19
S	Apr 2022	179	19	11	15	10	0
T	May 2022	214	52	20	31	18	3
O	Jun 2022	222	41	18	25	16	6
R	Jul 2022	251	29	23	29	17	7
I	Aug 2022	265	39	23	31	18	6
C	Sep 2022	201	42	14	27	13	5
	Summer 2022	1332	222	108	160	92	28
A	Oct 2022	175	42	0	21	10	2
L	Nov 2022	181	38	0	6	2	1
*	Dec 2022	199	40	1	6	2	4
	Jan 2023	175	35	5	4	2	4
	Feb 2023	167	32	4	6	1	1
	Mar 2023	169	25	5	8	5	3
	Winter 2023	1066	211	15	50	22	15
	Apr 2023	238	24	13	22	12	4
	May 2023	244	69	35	58	23	5
	Jun 2023	267	21	8	17	13	7
	Jul 2023	311	18	22	29	15	8
	Aug 2023	323	27	23	30	15	6
	Sep 2023	236	26	22	28	14	5
	Summer 2023	1619	185	123	183	92	36
	Oct 2023	178	23	20	25	9	5
	Nov 2023	185	22	4	6	4	4
	Dec 2023	221	22	4	6	4	4
	Jan 2024	263	23	4	6	4	4
	Feb 2024	230	21	4	6	3	3
	Mar 2024	241	16	5	7	5	3
	Winter 2024	1318	127	43	56	28	24
	Apr 2024	214	16	14	21	12	2
	May 2024	218	72	24	37	22	6
	Jun 2024	238	20	47	60	22	8
	Jul 2024	274	19	31	37	19	8
	Aug 2024	291	26	31	36	19	6
	Sep 2024	217	26	29	34	17	5
	Summer 2024	1452	177	176	225	112	34
	Oct 2024	244	24	25	31	10	5
	Nov 2024	242	21	9	11	6	5
	Dec 2024	267	24	24	29	15	5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

January 2023 24-Month Study

Most Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions



— BUREAU OF —
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 ****								**** EFFECTIVE SPACE ****										
Jan 2023	1,277	535	795	17783	20390	20307	40697	1277	535	795	2607	17783	20307	40697	5350	458	0	19.0
Jan 2023	1,277	535	795	17783	20390	20307	40697	418	325	414	1156	17783	20307	39246	5350	458	0	19.0
Feb 2023	1,352	531	800	17931	20613	20213	40826	492	322	417	1232	17931	20213	39375	1500	537	0	18.9
Mar 2023	1,415	526	798	18051	20790	20205	40995	555	319	415	1288	18051	20205	39544	1500	961	0	18.5
Apr 2023	1,410	513	780	18102	20805	20585	41390	545	307	391	1243	18102	20585	39930	1500	1074	0	18.2
May 2023	1,379	510	735	18107	20731	20925	41656	509	302	325	1136	18107	20925	40168	1500	1049	0	19.2
Jun 2023	1,371	480	603	17026	19480	21280	40760	495	256	157	908	17026	21280	39213	1500	949	0	20.8
Jul 2023	1,030	271	524	15752	17577	21544	39121	134	19	26	179	15752	21544	37475	1500	834	0	20.9
**** CREDITABLE SPACE ****								**** EFFECTIVE SPACE ****										
Aug 2023	913	250	554	15711	17428	21573	39001	913	250	554	1717	15711	21573	39001	1500	787	0	20.4
Sep 2023	941	270	589	16114	17915	21518	39433	941	270	589	1801	16114	21518	39433	2270	705	0	20.0
Oct 2023	985	304	605	16327	18221	21593	39814	985	304	605	1894	16327	21593	39814	3040	539	0	19.7
Nov 2023	1,009	336	601	16359	18304	21636	39940	1009	336	601	1945	16359	21636	39940	3810	565	0	19.6
Dec 2023	1,027	321	599	16429	18377	21673	40049	1027	321	599	1947	16429	21673	40049	4580	466	0	19.6
Jan 2024	1,063	309	600	16648	18620	21516	40136	1063	309	600	1972	16648	21516	40136	5350	573	0	19.5
**** EFFECTIVE SPACE ****								**** CREDITABLE SPACE ****										
Jan 2024	1,063	309	600	16648	18620	21516	40136	509	280	487	1276	16648	21516	39441	5350	573	0	19.5
Feb 2024	1,092	300	601	16984	18977	21321	40298	537	270	488	1295	16984	21321	39600	1500	546	0	19.5
Mar 2024	1,115	290	594	17212	19211	21176	40387	557	261	481	1299	17212	21176	39686	1500	885	0	19.3
Apr 2024	1,084	271	546	17380	19280	21305	40585	521	242	425	1188	17380	21305	39872	1500	1015	0	19.2
May 2024	1,026	240	481	17265	19012	21666	40678	458	210	337	1005	17265	21666	39935	1500	992	0	20.2
Jun 2024	1,009	128	349	16212	17698	22044	39743	435	86	166	687	16212	22044	38943	1500	901	0	21.5
Jul 2024	700	52	263	15056	16071	22342	38413	106	-13	24	116	15056	22342	37514	1500	789	0	21.4
**** CREDITABLE SPACE ****								**** EFFECTIVE SPACE ****										
Aug 2024	612	58	299	15123	16093	22429	38523	612	58	299	970	15123	22429	38523	1500	762	0	21.0
Sep 2024	636	94	337	15410	16478	22440	38918	636	94	337	1068	15410	22440	38918	2270	672	0	20.5
Oct 2024	681	143	350	15565	16739	22543	39282	681	143	350	1175	15565	22543	39282	3040	489	0	20.3
Nov 2024	708	190	347	15733	16978	22390	39368	708	190	347	1245	15733	22390	39368	3810	586	0	20.2
Dec 2024	725	189	347	15927	17187	22317	39505	725	189	347	1260	15927	22317	39505	4580	523	0	20.1

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