

To: All Annual Operating Plan Recipients

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In addition to the October 2022 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted additional model runs in October to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. Probable minimum and probable maximum model runs are conducted in January, April, August, and October, or when necessary to incorporate changing conditions. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

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

<https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf> or
<https://www.usbr.gov/lc/region/g4000/24mo/2022/October-Chart.pdf>.

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 actions which together are anticipated to add approximately one million additional acre-feet of storage to Lake Powell by April 2023. The Department of Interior and Reclamation will work to determine the manner in which to operate Glen Canyon Dam to ensure the benefits of these actions are preserved.

The reduction of releases from Lake Powell from 7.48 maf to 7.00 maf in 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 operating determinations in 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 tier/condition purposes both for the U.S. Lower Basin and for Mexico unless otherwise determined through additional consultation and communication.

The WY 2023 unregulated inflow into Lake Powell in the Probable Minimum inflow scenario is 4.80 maf, or 49% of average. The October Probable Minimum 24-Month Study includes a release volume from Glen Canyon Dam of 7.00 maf in WY 2023 and 7.00 maf in WY 2024. Under the Probable Minimum scenario, Lake Powell’s physical elevation is projected to be 3,483.64 feet on December 31, 2023. With intervening flows between Lake Powell and Lake Mead of 0.634 maf in calendar year 2023, Lake Mead’s physical elevation is projected to be 1,016.30 feet on December 31, 2023.

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 2022 AOP is available online at:

<https://www.usbr.gov/lc/region/g4000/aop/AOP22.pdf>.

The Draft 2023 AOP is available online at:

https://www.usbr.gov/uc/water/rsvrs/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 Drought Response Operations Agreement 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_10_ucb.pdf.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Fontenelle Reservoir



— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Oct 2021	37	1	33	4	37	6491.62	229
H Nov 2021	39	1	43	0	43	6491.01	225
I Dec 2021	29	1	50	0	50	6487.63	203
S Jan 2022	29	1	51	0	51	6483.90	180
T Feb 2022	23	1	46	0	46	6479.63	157
O Mar 2022	46	1	50	0	50	6478.63	151
R Apr 2022	50	1	5	44	49	6478.74	152
I May 2022	63	1	47	8	55	6479.96	158
C Jun 2022	241	2	82	0	82	6503.59	315
A Jul 2022	102	3	83	11	93	6504.34	321
L Aug 2022	56	2	67	1	68	6502.43	306
* Sep 2022	29	2	61	0	61	6498.08	274
WY 2022	744	15	617	67	685		
Oct 2022	40	1	57	0	57	6495.51	256
Nov 2022	35	1	52	0	52	6492.95	238
Dec 2022	28	1	54	0	54	6488.97	212
Jan 2023	12	1	54	0	54	6481.96	169
Feb 2023	12	1	49	0	49	6474.58	132
Mar 2023	20	0	43	0	43	6468.92	108
Apr 2023	31	1	24	0	24	6470.57	115
May 2023	62	1	25	0	25	6478.57	151
Jun 2023	132	2	24	0	24	6495.71	257
Jul 2023	79	3	53	0	53	6498.99	281
Aug 2023	29	2	55	0	55	6495.08	253
Sep 2023	19	2	51	0	51	6490.20	220
WY 2023	499	14	540	0	540		
Oct 2023	24	1	52	0	52	6485.59	190
Nov 2023	30	1	51	0	51	6481.96	169
Dec 2023	32	1	52	0	52	6478.03	148
Jan 2024	29	0	52	0	52	6472.91	125
Feb 2024	27	0	49	0	49	6467.40	102
Mar 2024	43	0	53	0	53	6464.51	92
Apr 2024	65	1	34	20	54	6467.54	103
May 2024	116	1	61	0	61	6479.58	156
Jun 2024	201	2	67	0	67	6499.98	288
Jul 2024	90	3	59	0	59	6503.71	316
Aug 2024	42	2	59	0	59	6501.14	297
Sep 2024	32	2	54	0	54	6497.97	273
WY 2024	731	14	644	20	664		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Flaming Gorge Reservoir



— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Oct 2021	49	50	7	77	0	77	117	6018.23	2918	107
H	Nov 2021	47	49	3	51	0	51	117	6018.09	2913	87
I	Dec 2021	21	41	2	52	0	52	117	6017.72	2900	82
S	Jan 2022	33	55	2	52	0	52	117	6017.75	2901	80
T	Feb 2022	30	54	2	47	0	47	117	6017.87	2905	70
O	Mar 2022	74	83	3	52	0	52	118	6018.65	2932	111
R	Apr 2022	66	62	5	51	0	51	118	6018.81	2938	179
I	May 2022	88	88	7	139	48	187	114	6015.77	2769	570
C	Jun 2022	274	113	9	110	12	121	113	6015.25	2752	465
A	Jul 2022	125	110	11	79	0	79	106	6016.09	2780	137
L	Aug 2022	58	70	11	105	0	105	104	6014.73	2735	124
*	Sep 2022	32	63	9	112	0	112	102	6013.01	2680	125
WY 2022		897	837	70	927	60	987				2138
	Oct 2022	47	64	6	99	0	99	100	6011.77	2640	124
	Nov 2022	43	60	3	95	0	95	99	6010.61	2603	121
	Dec 2022	29	55	1	98	0	98	97	6009.23	2560	120
	Jan 2023	17	59	1	101	0	101	95	6007.87	2518	113
	Feb 2023	19	56	2	92	0	92	94	6006.68	2481	104
	Mar 2023	45	68	2	92	0	92	93	6005.86	2456	124
	Apr 2023	56	49	4	89	0	89	91	6004.45	2414	197
	May 2023	95	58	6	141	0	141	88	6001.57	2328	433
	Jun 2023	186	78	8	51	0	51	89	6002.20	2347	268
	Jul 2023	103	77	10	52	0	52	89	6002.65	2360	88
	Aug 2023	36	62	10	61	0	61	89	6002.35	2351	69
	Sep 2023	24	56	9	58	0	58	88	6001.99	2341	66
WY 2023		700	741	63	1030	0	1030				1828
	Oct 2023	27	55	6	52	0	52	88	6001.91	2338	68
	Nov 2023	36	57	3	51	0	51	88	6002.01	2341	76
	Dec 2023	33	53	1	52	0	52	88	6002.00	2341	77
	Jan 2024	40	63	1	52	0	52	89	6002.32	2350	77
	Feb 2024	42	64	2	49	0	49	89	6002.75	2363	74
	Mar 2024	68	78	2	52	0	52	90	6003.51	2386	117
	Apr 2024	91	80	4	51	0	51	91	6004.31	2410	216
	May 2024	165	110	6	131	0	131	90	6003.45	2384	543
	Jun 2024	249	115	8	60	0	60	92	6004.95	2429	286
	Jul 2024	92	61	11	52	0	52	92	6004.90	2427	68
	Aug 2024	45	62	10	53	0	53	92	6004.88	2427	64
	Sep 2024	34	56	9	54	0	54	92	6004.67	2420	61
WY 2024		922	855	63	709	0	709				1727

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Taylor Park Reservoir



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RECLAMATION

	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Oct 2021	5	5	9302.69	59
H Nov 2021	4	4	9302.58	59
I Dec 2021	5	5	9302.55	59
S Jan 2022	4	4	9302.29	58
T Feb 2022	3	4	9301.88	58
O Mar 2022	4	4	9301.56	57
R Apr 2022	8	6	9302.92	59
I May 2022	27	12	9312.55	74
C Jun 2022	26	19	9316.61	81
A Jul 2022	11	15	9314.18	77
L Aug 2022	8	14	9310.35	70
* Sep 2022	5	8	9308.87	68
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WY 2022	110	100		
Oct 2022	6	6	9309.07	68
Nov 2022	5	5	9309.04	68
Dec 2022	4	5	9308.24	67
Jan 2023	3	5	9306.80	65
Feb 2023	3	5	9305.61	63
Mar 2023	3	5	9304.11	61
Apr 2023	6	5	9304.79	62
May 2023	20	11	9310.65	71
Jun 2023	30	15	9319.44	86
Jul 2023	11	18	9315.47	79
Aug 2023	6	15	9310.02	70
Sep 2023	4	15	9302.72	59
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WY 2023	101	110		
Oct 2023	4	6	9301.30	57
Nov 2023	4	4	9300.97	56
Dec 2023	4	5	9300.54	56
Jan 2024	4	5	9300.10	55
Feb 2024	4	4	9299.99	55
Mar 2024	4	5	9299.54	55
Apr 2024	8	4	9302.44	59
May 2024	23	9	9311.64	73
Jun 2024	28	15	9319.22	86
Jul 2024	9	18	9314.06	77
Aug 2024	7	15	9309.14	69
Sep 2024	6	12	9305.20	63
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WY 2024	105	101		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Blue Mesa Reservoir



— BUREAU OF —
RECLAMATION

	Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2021	27	26	0	58	0	58	7429.52	209
H	Nov 2021	27	27	0	16	0	16	7431.94	220
I	Dec 2021	22	22	0	11	0	11	7434.40	231
S	Jan 2022	20	20	0	14	0	14	7435.60	236
T	Feb 2022	18	19	0	14	0	14	7436.57	241
O	Mar 2022	30	30	0	32	0	32	7436.17	239
R	Apr 2022	62	60	0	44	0	46	7438.94	252
I	May 2022	177	162	1	79	0	79	7454.56	335
C	Jun 2022	133	126	1	69	0	69	7463.76	391
A	Jul 2022	59	63	1	84	0	84	7460.15	368
L	Aug 2022	57	64	1	89	0	89	7455.69	341
*	Sep 2022	31	33	1	55	28	82	7446.72	292
WY 2022		661	652	6	566	28	595		
	Oct 2022	30	30	0	0	75	75	7437.60	246
	Nov 2022	26	26	0	0	14	14	7440.06	258
	Dec 2022	21	22	0	14	0	14	7441.76	266
	Jan 2023	12	14	0	17	0	17	7441.23	264
	Feb 2023	11	13	0	15	0	15	7440.80	261
	Mar 2023	17	19	0	20	0	20	7440.68	261
	Apr 2023	35	34	0	57	0	57	7435.81	237
	May 2023	120	111	1	56	0	56	7446.77	292
	Jun 2023	154	139	1	51	0	51	7461.96	379
	Jul 2023	57	64	1	75	0	75	7459.94	367
	Aug 2023	31	40	1	77	0	77	7453.47	329
	Sep 2023	20	31	1	76	0	76	7445.06	283
WY 2023		534	543	6	457	89	546		
	Oct 2023	21	23	0	75	0	75	7434.44	231
	Nov 2023	23	23	0	15	0	15	7436.20	239
	Dec 2023	25	26	0	14	0	14	7438.68	251
	Jan 2024	24	25	0	14	0	14	7440.89	262
	Feb 2024	23	23	0	13	0	13	7442.81	271
	Mar 2024	35	36	0	18	0	18	7446.26	289
	Apr 2024	64	60	1	32	0	32	7451.38	317
	May 2024	159	145	1	50	0	50	7466.91	411
	Jun 2024	165	152	1	64	0	64	7479.36	497
	Jul 2024	53	62	1	88	0	88	7475.51	470
	Aug 2024	42	50	1	77	0	77	7471.48	442
	Sep 2024	28	34	1	74	0	74	7465.28	400
WY 2024		662	658	7	534	0	534		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Morrow Point Reservoir



— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2021	27	58	1	59	61	0	61	7149.67	109
H	Nov 2021	30	16	3	19	17	0	17	7151.77	110
I	Dec 2021	23	11	1	12	16	0	16	7145.62	106
S	Jan 2022	21	14	1	15	16	0	16	7144.25	105
T	Feb 2022	19	14	1	15	14	0	14	7145.30	105
O	Mar 2022	31	32	2	33	30	0	30	7149.87	109
R	Apr 2022	65	46	3	50	47	0	47	7153.31	112
I	May 2022	186	79	9	88	89	0	89	7152.08	111
C	Jun 2022	134	69	1	70	71	0	71	7150.86	110
A	Jul 2022	60	84	1	85	84	0	84	7152.31	111
L	Aug 2022	58	89	1	90	90	0	90	7152.25	111
*	Sep 2022	31	82	1	83	78	0	78	7157.81	115
WY 2022		685	595	24	619	614	0	614		
	Oct 2022	32	75	2	77	80	0	80	7153.73	112
	Nov 2022	27	14	1	15	15	0	15	7153.73	112
	Dec 2022	23	14	2	16	16	0	16	7153.73	112
	Jan 2023	14	17	2	19	19	0	19	7153.73	112
	Feb 2023	12	15	1	16	16	0	16	7153.73	112
	Mar 2023	19	20	2	22	21	0	21	7153.73	112
	Apr 2023	38	57	3	60	60	0	60	7153.73	112
	May 2023	136	56	16	72	72	0	72	7153.73	112
	Jun 2023	166	51	12	63	63	0	63	7153.72	112
	Jul 2023	59	75	2	77	77	0	77	7153.73	112
	Aug 2023	33	77	2	79	79	0	79	7153.73	112
	Sep 2023	21	76	1	77	77	0	77	7153.73	112
WY 2023		580	546	46	592	595	0	595		
	Oct 2023	22	75	1	76	76	0	76	7153.73	112
	Nov 2023	26	15	3	18	18	0	18	7153.73	112
	Dec 2023	27	14	2	16	16	0	16	7153.73	112
	Jan 2024	26	14	2	16	16	0	16	7153.73	112
	Feb 2024	25	13	2	15	15	0	15	7153.73	112
	Mar 2024	37	18	2	20	19	0	19	7153.73	112
	Apr 2024	72	32	8	40	40	0	40	7153.73	112
	May 2024	176	50	17	67	67	0	67	7153.73	112
	Jun 2024	173	64	8	72	72	0	72	7153.72	112
	Jul 2024	54	88	1	89	89	0	89	7153.73	112
	Aug 2024	43	77	1	78	78	0	78	7153.73	112
	Sep 2024	30	74	2	76	76	0	76	7153.73	112
WY 2024		711	534	49	583	583	0	583		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum 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)
*	Oct 2021	32	61	5	66	34	32	66	6752.35	17	41	24
H	Nov 2021	34	17	4	21	22	0	22	6749.65	16	1	19
I	Dec 2021	27	16	4	21	20	0	21	6750.09	16	1	19
S	Jan 2022	25	16	4	21	20	0	21	6750.38	16	1	18
T	Feb 2022	22	14	3	17	18	0	18	6746.37	15	0	17
O	Mar 2022	36	30	4	34	32	1	32	6752.56	17	6	25
R	Apr 2022	73	47	8	54	54	1	54	6752.33	17	31	24
I	May 2022	203	89	17	105	92	13	106	6751.40	16	59	48
C	Jun 2022	145	71	10	82	80	2	81	6752.67	17	62	21
A	Jul 2022	64	84	4	88	89	0	90	6747.68	15	65	28
L	Aug 2022	62	90	3	94	92	0	92	6751.52	17	66	31
*	Sep 2022	33	78	2	80	69	12	80	6750.17	16	62	22
WY 2022		754	614	69	683	622	62	684			393	295
	Oct 2022	35	80	3	83	82	0	82	6753.04	17	55	27
	Nov 2022	31	15	4	19	19	0	19	6753.04	17	0	19
	Dec 2022	27	16	4	20	20	0	20	6753.04	17	0	20
	Jan 2023	15	19	1	20	20	0	20	6753.04	17	0	20
	Feb 2023	14	16	2	18	18	0	18	6753.04	17	0	18
	Mar 2023	22	21	3	24	24	0	24	6753.04	17	5	19
	Apr 2023	46	60	8	68	68	0	68	6753.04	17	42	26
	May 2023	149	72	13	85	85	0	85	6753.04	17	62	23
	Jun 2023	182	63	16	79	79	0	79	6753.03	17	40	39
	Jul 2023	63	77	4	81	81	0	81	6753.04	17	30	51
	Aug 2023	35	79	2	81	81	0	81	6753.04	17	40	41
	Sep 2023	22	77	1	78	78	0	78	6753.04	17	55	23
WY 2023		641	595	61	656	654	0	654			329	325
	Oct 2023	23	76	1	77	52	24	77	6753.04	17	55	22
	Nov 2023	27	18	1	19	19	0	19	6753.04	17	0	19
	Dec 2023	31	16	4	20	20	0	20	6753.04	17	0	20
	Jan 2024	30	16	4	20	20	0	20	6753.04	17	0	20
	Feb 2024	28	15	3	18	18	0	18	6753.04	17	0	18
	Mar 2024	42	19	5	24	24	0	24	6753.04	17	5	19
	Apr 2024	82	40	10	50	50	0	50	6753.04	17	42	8
	May 2024	195	67	19	86	86	0	86	6753.04	17	62	24
	Jun 2024	190	72	17	89	89	0	89	6753.03	17	40	49
	Jul 2024	57	89	3	92	92	0	92	6753.04	17	30	62
	Aug 2024	48	78	5	83	83	0	83	6753.04	17	40	43
	Sep 2024	34	76	4	80	80	0	80	6753.04	17	55	25
WY 2024		787	583	76	659	634	24	658			329	329

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Vallecito Reservoir



— BUREAU OF —
RECLAMATION

	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Oct 2021	8	3	7619.62	29
H Nov 2021	5	2	7621.90	32
I Dec 2021	4	0	7624.23	35
S Jan 2022	4	0	7626.39	39
T Feb 2022	3	0	7628.13	42
O Mar 2022	7	0	7631.90	48
R Apr 2022	27	2	7644.01	73
I May 2022	53	33	7652.10	92
C Jun 2022	26	34	7648.50	83
A Jul 2022	19	32	7642.57	70
L Aug 2022	18	28	7637.64	59
* Sep 2022	12	26	7630.15	45
<hr/>				
WY 2022	185	160		
<hr/>				
Oct 2022	11	3	7634.54	53
Nov 2022	7	2	7637.21	59
Dec 2022	5	0	7639.42	63
Jan 2023	6	0	7642.06	69
Feb 2023	5	0	7644.18	74
Mar 2023	6	0	7646.61	79
Apr 2023	16	2	7652.45	93
May 2023	45	33	7656.85	104
Jun 2023	21	34	7651.30	90
Jul 2023	8	32	7640.69	66
Aug 2023	9	28	7630.86	46
Sep 2023	12	26	7622.41	33
<hr/>				
WY 2023	151	160		
<hr/>				
Oct 2023	6	17	7614.05	22
Nov 2023	5	2	7616.72	25
Dec 2023	6	2	7619.94	29
Jan 2024	6	2	7622.86	33
Feb 2024	5	2	7625.02	37
Mar 2024	8	2	7628.67	43
Apr 2024	20	2	7638.16	61
May 2024	56	26	7651.24	90
Jun 2024	40	36	7652.80	94
Jul 2024	13	35	7643.33	72
Aug 2024	12	32	7633.55	51
Sep 2024	11	25	7625.32	37
<hr/>				
WY 2024	188	181		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Navajo Reservoir



— BUREAU OF —
RECLAMATION

	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
*	Oct 2021	20	0	16	1	2	28	6022.31	887	45
H	Nov 2021	14	0	10	1	0	18	6021.39	879	36
I	Dec 2021	15	0	11	0	0	18	6020.63	872	35
S	Jan 2022	14	0	10	0	0	22	6019.21	859	38
T	Feb 2022	14	0	11	1	1	20	6018.00	848	33
O	Mar 2022	41	2	32	1	4	22	6018.57	853	38
R	Apr 2022	123	17	84	2	17	20	6023.53	898	44
I	May 2022	167	30	114	3	38	18	6029.39	954	104
C	Jun 2022	47	7	50	3	37	24	6027.89	939	61
A	Jul 2022	44	5	54	3	39	35	6025.41	916	55
L	Aug 2022	53	5	56	3	38	30	6023.95	902	49
*	Sep 2022	22	1	35	2	23	40	6020.65	872	56
WY 2022		574	66	484	20	200	296			594
	Oct 2022	20	0	12	1	2	29	6018.33	851	41
	Nov 2022	18	0	13	1	0	18	6017.63	845	28
	Dec 2022	17	0	12	0	0	18	6016.95	839	28
	Jan 2023	33	1	26	0	0	22	6017.35	843	35
	Feb 2023	31	1	25	1	1	20	6017.74	846	32
	Mar 2023	60	5	49	1	4	22	6020.18	868	36
	Apr 2023	92	10	68	2	17	20	6023.34	897	52
	May 2023	157	20	126	3	38	18	6030.38	963	114
	Jun 2023	33	2	44	3	37	24	6028.32	943	84
	Jul 2023	-4	1	19	3	39	35	6022.09	885	53
	Aug 2023	-20	0	-1	2	38	30	6014.03	814	49
	Sep 2023	15	0	29	2	23	40	6009.64	778	60
WY 2023		452	41	421	20	200	296			612
	Oct 2023	13	0	23	1	9	33	6007.20	758	45
	Nov 2023	22	1	18	1	0	24	6006.37	751	36
	Dec 2023	24	0	19	0	0	21	6006.13	749	35
	Jan 2024	24	0	20	0	0	19	6006.13	749	32
	Feb 2024	27	1	23	1	0	14	6007.11	757	26
	Mar 2024	74	7	60	1	5	19	6011.41	792	37
	Apr 2024	110	13	79	2	21	18	6015.93	830	58
	May 2024	190	25	135	2	35	15	6025.07	913	127
	Jun 2024	102	12	86	3	51	40	6024.19	904	139
	Jul 2024	9	0	31	3	56	59	6014.38	817	89
	Aug 2024	2	0	22	2	39	45	6006.62	753	67
	Sep 2024	13	0	27	2	18	36	6003.02	724	55
WY 2024		610	59	544	18	235	344			747

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Lake Powell



— BUREAU OF —
RECLAMATION

		Unreg	Regulated	Evap	PowerPlant	Bypass	Total	Reservoir Elev	Bank	EOM	Lees
	Date	Inflow	Inflow	Losses	Release	Release	Release	End of Month	Storage	Storage	Ferry Gage
		(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)
*	Oct 2021	317	419	21	481	0	481	3544.25	4628	7181	489
H	Nov 2021	346	342	20	500	0	500	3541.84	4615	7016	496
I	Dec 2021	266	290	16	600	0	600	3537.33	4591	6713	599
S	Jan 2022	249	269	4	673	0	673	3531.52	4561	6335	681
T	Feb 2022	215	235	4	540	0	540	3526.97	4538	6048	556
O	Mar 2022	329	327	7	574	0	574	3523.13	4519	5812	584
R	Apr 2022	594	490	12	502	0	502	3522.77	4517	5791	510
I	May 2022	1382	1212	14	598	0	598	3531.69	4561	6346	599
C	Jun 2022	1284	1198	25	598	0	598	3539.81	4604	6878	595
A	Jul 2022	491	463	28	672	0	672	3536.20	4551	6212	672
L	Aug 2022	368	444	27	713	0	713	3531.69	4529	5938	719
*	Sep 2022	245	420	24	547	0	547	3529.33	4517	5797	556
WY 2022		6084	6107	203	6999	0	6999				7057
	Oct 2022	325	436	17	480	0	480	3528.38	4513	5741	492
	Nov 2022	365	405	16	500	0	500	3526.62	4505	5639	512
	Dec 2022	300	363	13	600	0	600	3522.59	4486	5407	613
	Jan 2023	139	218	3	664	0	664	3515.09	4453	4992	682
	Feb 2023	153	221	3	587	0	587	3508.62	4426	4649	601
	Mar 2023	238	259	5	620	0	620	3501.92	4399	4310	631
	Apr 2023	359	369	8	552	0	552	3498.31	4384	4133	561
	May 2023	938	838	9	550	0	550	3503.56	4405	4392	554
	Jun 2023	1232	1023	17	577	0	577	3511.30	4437	4790	574
	Jul 2023	410	456	21	652	0	652	3507.45	4421	4589	655
	Aug 2023	169	328	20	696	0	696	3500.29	4392	4230	710
	Sep 2023	171	309	18	522	0	522	3495.87	4375	4017	535
WY 2023		4799	5227	150	7000	0	7000				7120
	Oct 2023	214	322	12	480	0	480	3492.53	4362	3860	491
	Nov 2023	325	335	11	500	0	500	3488.97	4349	3696	511
	Dec 2023	347	352	9	0	600	600	3483.64	4330	3458	613
	Jan 2024	333	330	2	0	664	664	3476.40	4305	3147	682
	Feb 2024	378	364	2	0	587	587	3471.35	4289	2939	601
	Mar 2024	564	488	3	0	620	620	3468.24	4279	2814	636
	Apr 2024	716	585	5	0	552	552	3468.89	4281	2839	562
	May 2024	1552	1295	7	0	550	550	3485.10	4335	3523	556
	Jun 2024	1570	1281	14	577	0	577	3498.89	4387	4162	582
	Jul 2024	298	399	18	652	0	652	3493.63	4367	3911	657
	Aug 2024	211	336	17	638	58	696	3485.98	4339	3561	710
	Sep 2024	226	333	15	230	292	522	3481.68	4323	3372	536
WY 2024		6734	6420	116	3077	3923	7000				7137

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum 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)
* Oct 2021	481	80	51	581	9.4	16	586	581	1066.77	8945
H Nov 2021	500	42	44	642	10.8	10	650	572	1064.97	8804
I Dec 2021	600	64	36	503	8.2	10	511	579	1066.39	8915
S Jan 2022	673	60	25	640	10.4	11	639	583	1067.09	8970
T Feb 2022	540	58	23	590	10.6	10	590	581	1066.78	8946
O Mar 2022	574	41	25	1010	16.4	17	1009	555	1061.49	8536
R Apr 2022	502	30	33	1027	17.3	17	1026	522	1054.69	8026
I May 2022	598	8	40	1083	17.6	25	1075	489	1047.69	7517
C Jun 2022	598	16	47	889	14.9	29	877	467	1043.02	7187
A Jul 2022	672	70	45	822	13.4	31	814	458	1040.92	7041
L Aug 2022	713	186	48	573	9.3	28	567	473	1044.28	7275
* Sep 2022	547	120	48	539	9.1	24	545	476	1045.03	7328
WY 2022	6999	776	463	8899		228	8887			
Oct 2022	480	62	45	488	7.9	26	488	475	1044.79	7311
Nov 2022	500	61	40	676	11.4	15	676	465	1042.52	7152
Dec 2022	600	66	32	427	6.9	11	427	477	1045.15	7337
Jan 2023	664	94	22	608	9.9	11	608	484	1046.70	7447
Feb 2023	587	73	21	552	9.9	8	552	489	1047.75	7521
Mar 2023	620	59	23	887	14.4	15	887	474	1044.51	7291
Apr 2023	552	50	30	998	16.8	17	998	447	1038.51	6875
May 2023	550	21	37	979	15.9	21	979	418	1032.00	6437
Jun 2023	577	-13	44	919	15.4	29	919	392	1025.84	6035
Jul 2023	652	17	41	831	13.5	33	831	378	1022.36	5813
Aug 2023	696	73	44	802	13.0	35	802	371	1020.69	5708
Sep 2023	522	70	42	696	11.7	31	696	360	1018.01	5541
WY 2023	7000	633	420	8863		253	8863			
Oct 2023	480	60	40	531	8.6	26	531	357	1017.16	5488
Nov 2023	500	60	35	653	11.0	14	653	348	1014.99	5355
Dec 2023	600	70	28	547	8.9	9	547	353	1016.30	5435
Jan 2024	664	92	19	549	8.9	11	549	364	1018.98	5601
Feb 2024	587	74	18	497	8.6	8	497	373	1021.06	5731
Mar 2024	620	86	20	830	13.5	15	830	363	1018.66	5581
Apr 2024	552	53	27	941	15.8	17	941	340	1012.84	5224
May 2024	550	29	32	927	15.1	21	927	315	1006.48	4847
Jun 2024	577	25	38	879	14.8	30	879	294	1000.85	4523
Jul 2024	652	29	36	792	12.9	34	792	283	997.81	4353
Aug 2024	696	73	39	771	12.5	36	771	278	996.52	4281
Sep 2024	522	71	37	653	11.0	32	653	270	994.33	4160
WY 2024	7000	723	370	8569		254	8569			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Davis Dam - Lake Mohave



— BUREAU OF —
RECLAMATION

	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Oct 2021	581	-3	14	658	0	658	10.7	634.42	1471
H	Nov 2021	642	-9	13	543	0	543	9.1	637.48	1551
I	Dec 2021	503	-6	13	465	0	465	7.6	638.32	1573
S	Jan 2022	640	-20	9	523	0	523	8.5	641.60	1661
T	Feb 2022	590	-26	8	555	0	555	10.0	641.69	1663
O	Mar 2022	1010	-38	10	931	0	931	15.1	642.79	1693
R	Apr 2022	1027	-31	13	975	0	975	16.4	643.08	1701
I	May 2022	1083	-20	14	1041	0	1041	16.9	643.35	1708
C	Jun 2022	889	-30	14	842	0	842	14.1	643.47	1712
A	Jul 2022	822	-26	12	770	0	770	12.5	643.97	1725
L	Aug 2022	573	-13	16	575	0	575	9.3	642.87	1695
*	Sep 2022	539	-6	16	617	0	617	10.4	639.17	1595
WY 2022		8899	-228	151	8495	0	8495			
	Oct 2022	488	-11	14	598	0	598	9.7	634.00	1460
	Nov 2022	676	-16	13	516	0	516	8.7	639.01	1591
	Dec 2022	427	-5	13	396	0	396	6.4	639.51	1604
	Jan 2023	608	-12	9	525	0	525	8.5	641.80	1666
	Feb 2023	552	-11	8	534	0	534	9.6	641.80	1666
	Mar 2023	887	-9	10	834	0	834	13.6	643.05	1700
	Apr 2023	998	-13	13	974	0	974	16.4	643.00	1699
	May 2023	979	-13	14	952	0	952	15.5	643.00	1699
	Jun 2023	919	-18	14	886	0	886	14.9	643.00	1699
	Jul 2023	831	-19	12	827	0	827	13.4	642.00	1671
	Aug 2023	802	-17	15	769	0	769	12.5	642.00	1671
	Sep 2023	696	-8	16	726	0	726	12.2	640.01	1617
WY 2023		8863	-151	151	8537	0	8537			
	Oct 2023	531	-11	14	689	0	689	11.2	633.00	1434
	Nov 2023	653	-16	13	573	0	573	9.6	635.00	1486
	Dec 2023	547	-5	13	411	0	411	6.7	639.51	1604
	Jan 2024	549	-12	9	467	0	467	7.6	641.80	1666
	Feb 2024	497	-11	8	479	0	479	8.3	641.80	1666
	Mar 2024	830	-9	10	777	0	777	12.6	643.05	1700
	Apr 2024	941	-13	13	917	0	917	15.4	643.00	1699
	May 2024	927	-13	14	900	0	900	14.6	643.00	1699
	Jun 2024	879	-18	14	846	0	846	14.2	643.00	1699
	Jul 2024	792	-19	12	787	0	787	12.8	642.00	1671
	Aug 2024	771	-17	15	739	0	739	12.0	642.00	1671
	Sep 2024	653	-8	16	683	0	683	11.5	640.01	1617
WY 2024		8569	-151	151	8267	0	8267			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum 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)
*	Oct 2021	658	18	12	421	6.8	99	139	448.37	587	67	1.1
H	Nov 2021	543	13	9	348	5.8	96	124	447.05	562	92	1.5
I	Dec 2021	465	16	7	281	4.6	99	87	447.33	567	89	1.5
S	Jan 2022	523	-3	6	342	5.6	96	89	446.38	550	114	1.9
T	Feb 2022	555	12	8	445	8.0	4	103	446.44	551	127	2.3
O	Mar 2022	931	2	9	658	10.7	97	133	448.02	580	170	2.8
R	Apr 2022	975	6	11	737	12.4	100	141	447.11	563	161	2.7
I	May 2022	1041	8	13	741	12.0	106	150	448.68	593	145	2.4
C	Jun 2022	842	18	15	679	11.4	103	60	448.30	586	154	2.6
A	Jul 2022	770	31	17	639	10.4	106	19	448.84	596	150	2.4
L	Aug 2022	575	42	17	482	7.8	106	16	448.16	583	120	2.0
*	Sep 2022	617	16	15	458	7.7	103	52	447.96	579	105	1.8
WY 2022		8495	180	140	6231		1117	1112			1497	
	Oct 2022	598	18	12	439	7.1	106	61	447.50	570	63	1.0
	Nov 2022	516	17	9	352	5.9	103	64	447.50	570	90	1.5
	Dec 2022	396	18	7	238	3.9	106	77	446.50	552	88	1.4
	Jan 2023	525	14	6	310	5.0	103	115	446.50	552	136	2.2
	Feb 2023	534	5	8	401	7.2	22	102	446.50	552	122	2.2
	Mar 2023	834	4	9	609	9.9	103	105	446.70	555	145	2.4
	Apr 2023	974	8	11	715	12.0	100	108	448.70	593	144	2.4
	May 2023	952	6	13	722	11.7	103	108	448.70	593	108	1.8
	Jun 2023	886	7	16	719	12.1	100	45	448.70	593	114	1.9
	Jul 2023	827	14	17	684	11.1	103	38	448.00	580	120	2.0
	Aug 2023	769	13	17	624	10.2	103	36	447.50	571	100	1.6
	Sep 2023	726	12	15	524	8.8	100	88	447.50	570	97	1.6
WY 2023		8537	135	139	6337		1151	948			1328	
	Oct 2023	689	18	12	482	7.8	103	103	447.50	571	87	1.4
	Nov 2023	573	17	9	372	6.2	100	104	447.50	570	113	1.9
	Dec 2023	411	18	7	260	4.2	103	74	446.50	552	108	1.8
	Jan 2024	467	14	6	292	4.7	85	93	446.50	552	119	1.9
	Feb 2024	479	5	8	385	6.7	2	82	446.50	552	107	1.9
	Mar 2024	777	4	9	590	9.6	85	84	446.70	555	127	2.1
	Apr 2024	917	8	11	697	11.7	82	87	448.70	593	126	2.1
	May 2024	900	6	13	709	11.5	85	87	448.70	593	95	1.5
	Jun 2024	846	7	16	705	11.8	82	37	448.70	593	100	1.7
	Jul 2024	787	14	17	669	10.9	85	31	448.00	580	106	1.7
	Aug 2024	739	13	17	618	10.1	85	30	447.50	571	87	1.4
	Sep 2024	683	12	15	516	8.7	82	71	447.50	570	85	1.4
WY 2024		8267	135	139	6294		979	881			1262	

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Hoover Dam - Lake Mead



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev 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
*	Oct 2021	581	9.4	1066.77	8945	-71	422.27	1228.0	216.2	87	372.4
H	Nov 2021	642	10.8	1064.97	8804	-140	421.30	938.0	241.3	67	375.8
I	Dec 2021	503	8.2	1066.39	8915	111	424.48	957.0	185.9	68	369.9
S	Jan 2022	640	10.4	1067.09	8970	55	420.00	993.0	236.8	67	370.2
T	Feb 2022	590	10.6	1066.78	8946	-24	420.26	994.0	220.4	67	373.2
O	Mar 2022	1010	16.4	1061.49	8536	-409	413.69	898.0	375.9	62	372.3
R	Apr 2022	1027	17.3	1054.69	8026	-511	405.75	863.0	380.5	61	370.4
I	May 2022	1083	17.6	1047.69	7517	-509	397.38	1082.0	391.7	80	361.7
C	Jun 2022	889	14.9	1043.02	7187	-330	396.77	1076.9	315.1	81	354.6
A	Jul 2022	822	13.4	1040.92	7041	-146	392.29	1236.6	287.9	94	350.1
L	Aug 2022	573	9.3	1044.28	7275	234	399.70	1224.8	200.6	94	349.9
*	Sep 2022	539	9.1	1045.03	7328	53	400.65	1157.3	188.5	88	349.7
WY 2022		8899							3240.9		
	Oct 2022	488	7.9	1044.79	7311	-17	398.75	924.5	175.6	70	359.8
	Nov 2022	676	11.4	1042.52	7152	-160	397.69	948.8	241.2	72	356.7
	Dec 2022	427	6.9	1045.15	7337	185	396.00	957.8	150.4	72	352.6
	Jan 2023	608	9.9	1046.70	7447	110	397.16	969.0	216.3	73	355.7
	Feb 2023	552	9.9	1047.75	7521	75	398.34	887.1	197.8	66	358.1
	Mar 2023	887	14.4	1044.51	7291	-230	396.19	897.0	322.4	73	363.6
	Apr 2023	998	16.8	1038.51	6875	-416	391.23	858.0	353.3	73	354.0
	May 2023	979	15.9	1032.00	6437	-438	385.67	748.6	344.8	66	352.0
	Jun 2023	919	15.4	1025.84	6035	-402	378.01	858.8	311.2	80	338.7
	Jul 2023	831	13.5	1022.36	5813	-222	371.53	1046.0	275.3	100	331.1
	Aug 2023	802	13.0	1020.69	5708	-105	369.31	1031.8	262.7	100	327.6
	Sep 2023	696	11.7	1018.01	5541	-167	367.80	1009.1	224.8	100	323.0
WY 2023		8863							3075.6		
	Oct 2023	531	8.6	1017.16	5488	-52	371.36	701.0	172.8	70	325.7
	Nov 2023	653	11.0	1014.99	5355	-133	372.16	685.8	215.0	70	329.1
	Dec 2023	547	8.9	1016.30	5435	80	369.62	693.8	177.7	70	324.8
	Jan 2024	549	8.9	1018.98	5601	166	368.72	776.4	177.7	76	323.4
	Feb 2024	497	8.6	1021.06	5731	130	370.33	790.1	161.0	76	324.0
	Mar 2024	830	13.5	1018.66	5581	-150	369.89	761.4	275.4	75	331.7
	Apr 2024	941	15.8	1012.84	5224	-357	364.84	780.8	304.6	81	323.7
	May 2024	927	15.1	1006.48	4847	-377	359.49	676.2	291.6	74	314.5
	Jun 2024	879	14.8	1000.85	4523	-324	352.87	700.1	266.5	81	303.4
	Jul 2024	792	12.9	997.81	4353	-170	347.04	837.4	234.7	100	296.4
	Aug 2024	771	12.5	996.52	4281	-72	345.23	826.4	226.2	100	293.3
	Sep 2024	653	11.0	994.33	4160	-121	344.15	807.8	189.0	100	289.5
WY 2024		8569							2692.0		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2022 24-Month Study

Minimum Probable Inflow*

Davis Dam - Lake Mohave



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2021	658	10.7	634.42	1471	-95	134.72	215.5	80.2	85	121.9
H	Nov 2021	543	9.1	637.48	1551	80	136.32	164.9	65.8	65	121.0
I	Dec 2021	465	7.6	638.32	1573	22	137.10	192.5	56.1	75	120.6
S	Jan 2022	523	8.5	641.60	1661	88	139.02	159.6	64.6	63	123.6
T	Feb 2022	555	10.0	641.69	1663	2	140.45	174.9	72.1	69	130.0
O	Mar 2022	931	15.1	642.79	1693	30	140.26	253.3	118.7	99	127.4
R	Apr 2022	975	16.4	643.08	1701	8	137.93	255.0	124.0	100	127.1
I	May 2022	1041	16.9	643.35	1708	7	140.42	241.8	132.1	95	126.9
C	Jun 2022	842	14.1	643.47	1712	3	139.18	251.6	108.5	99	128.9
A	Jul 2022	770	12.5	643.97	1725	14	144.37	255.0	99.3	100	129.1
L	Aug 2022	575	9.3	642.87	1695	-30	141.93	253.3	74.7	99	129.9
*	Sep 2022	617	10.4	639.17	1595	-100	137.50	248.2	78.5	97	127.3
WY 2022		8495							1074.5		
	Oct 2022	598	9.7	634.00	1460	-135	134.84	185.9	72.6	73	121.5
	Nov 2022	516	8.7	639.01	1591	131	135.21	153.0	62.9	60	121.8
	Dec 2022	396	6.4	639.51	1604	13	138.97	157.9	49.5	62	125.2
	Jan 2023	525	8.5	641.80	1666	62	139.41	157.9	66.0	62	125.6
	Feb 2023	534	9.6	641.80	1666	0	140.10	193.1	67.4	76	126.2
	Mar 2023	834	13.6	643.05	1700	34	139.19	255.0	104.5	100	125.4
	Apr 2023	974	16.4	643.00	1699	-2	138.81	255.0	121.8	100	125.1
	May 2023	952	15.5	643.00	1699	0	139.09	255.0	119.3	100	125.3
	Jun 2023	886	14.9	643.00	1699	0	139.29	255.0	111.2	100	125.5
	Jul 2023	827	13.4	642.00	1671	-27	139.30	255.0	103.8	100	125.5
	Aug 2023	769	12.5	642.00	1671	0	139.15	255.0	96.5	100	125.4
	Sep 2023	726	12.2	640.01	1617	-54	138.27	255.0	90.4	100	124.6
WY 2023		8537							1066.0		
	Oct 2023	689	11.2	633.00	1434	-183	134.16	227.0	83.2	89	120.9
	Nov 2023	573	9.6	635.00	1486	51	132.29	159.8	68.3	63	119.2
	Dec 2023	411	6.7	639.51	1604	118	136.85	154.7	50.7	61	123.3
	Jan 2024	467	7.6	641.80	1666	62	139.84	156.3	58.8	61	126.0
	Feb 2024	479	8.3	641.80	1666	0	140.66	160.0	60.6	63	126.7
	Mar 2024	777	12.6	643.05	1700	34	139.53	194.1	97.7	76	125.7
	Apr 2024	917	15.4	643.00	1699	-2	139.13	249.9	115.0	98	125.3
	May 2024	900	14.6	643.00	1699	0	139.38	255.0	113.0	100	125.6
	Jun 2024	846	14.2	643.00	1699	0	139.52	255.0	106.4	100	125.7
	Jul 2024	787	12.8	642.00	1671	-27	139.55	255.0	99.0	100	125.7
	Aug 2024	739	12.0	642.00	1671	0	139.34	255.0	92.7	100	125.5
	Sep 2024	683	11.5	640.01	1617	-54	138.55	255.0	85.2	100	124.8
WY 2024		8267							1030.6		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Parker Dam - Lake Havasu



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2021	421	6.8	448.37	587	-2	82.15	96.8	29.7	81	70.6
H	Nov 2021	348	5.8	447.05	562	-25	81.18	90.0	24.0	75	69.1
I	Dec 2021	281	4.6	447.33	567	5	81.34	102.6	18.6	85	66.1
S	Jan 2022	342	5.6	446.38	550	-18	80.46	93.9	23.0	78	67.4
T	Feb 2022	445	8.0	446.44	551	1	80.54	86.8	30.9	72	69.4
O	Mar 2022	658	10.7	448.02	580	30	77.95	112.3	45.8	94	69.6
R	Apr 2022	737	12.4	447.11	563	-17	79.08	120.0	50.8	100	68.9
I	May 2022	741	12.0	448.68	593	30	84.09	120.0	51.5	100	69.5
C	Jun 2022	679	11.4	448.30	586	-7	78.23	120.0	47.2	100	69.4
A	Jul 2022	639	10.4	448.84	596	10	82.19	120.0	44.7	100	69.9
L	Aug 2022	482	7.8	448.16	583	-13	83.58	120.0	33.4	100	69.3
*	Sep 2022	458	7.7	447.96	579	-4	81.26	120.0	31.4	100	68.7
WY 2022		6231							431.0		
	Oct 2022	439	7.1	447.50	570	-9	79.89	93.9	31.0	78	70.6
	Nov 2022	352	5.9	447.50	570	0	80.28	90.0	24.2	75	68.8
	Dec 2022	238	3.9	446.50	552	-19	80.87	111.3	15.2	93	63.8
	Jan 2023	310	5.0	446.50	552	0	79.73	93.9	20.7	78	66.9
	Feb 2023	401	7.2	446.50	552	0	78.63	95.2	27.7	79	69.1
	Mar 2023	609	9.9	446.70	555	4	77.52	120.0	41.8	100	68.6
	Apr 2023	715	12.0	448.70	593	38	77.79	120.0	49.7	100	69.5
	May 2023	722	11.7	448.70	593	0	78.89	120.0	50.8	100	70.3
	Jun 2023	719	12.1	448.70	593	0	78.76	120.0	50.4	100	70.2
	Jul 2023	684	11.1	448.00	580	-13	78.78	120.0	47.8	100	69.8
	Aug 2023	624	10.2	447.50	571	-10	78.57	120.0	43.3	100	69.4
	Sep 2023	524	8.8	447.50	570	0	78.89	120.0	36.4	100	69.4
WY 2023		6337							439.0		
	Oct 2023	482	7.8	447.50	571	0	79.34	91.0	33.8	76	70.1
	Nov 2023	372	6.2	447.50	570	0	80.11	92.0	25.5	77	68.6
	Dec 2023	260	4.2	446.50	552	-19	80.67	112.3	16.6	94	63.7
	Jan 2024	292	4.7	446.50	552	0	79.89	92.9	19.6	77	67.0
	Feb 2024	385	6.7	446.50	552	0	78.88	95.4	26.7	79	69.3
	Mar 2024	590	9.6	446.70	555	4	77.65	120.0	40.5	100	68.7
	Apr 2024	697	11.7	448.70	593	38	77.90	120.0	48.5	100	69.6
	May 2024	709	11.5	448.70	593	0	78.98	120.0	49.9	100	70.4
	Jun 2024	705	11.8	448.70	593	0	78.85	120.0	49.5	100	70.3
	Jul 2024	669	10.9	448.00	580	-13	78.88	120.0	46.8	100	69.9
	Aug 2024	618	10.1	447.50	571	-10	78.61	120.0	42.9	100	69.5
	Sep 2024	516	8.7	447.50	570	0	78.96	120.0	35.8	100	69.4
WY 2024		6294							436.1		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum Probable Inflow*

Upper Basin Power



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		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
*	Oct 2021	183	29	14	22	7	2
H	Nov 2021	189	19	3	6	2	3
I	Dec 2021	226	19	2	5	2	4
S	Jan 2022	252	19	3	5	1	4
T	Feb 2022	201	17	3	4	1	3
O	Mar 2022	208	19	8	9	4	3
	Winter 2022	1259	123	34	50	17	19
R	Apr 2022	179	19	11	15	10	0
I	May 2022	214	52	20	31	18	3
C	Jun 2022	222	41	18	25	16	6
A	Jul 2022	251	29	23	29	17	7
L	Aug 2022	265	39	23	31	18	6
*	Sep 2022	201	42	14	27	13	5
	Summer 2022	1332	222	108	160	92	28
	Oct 2022	169	33	0	29	14	4
	Nov 2022	176	31	0	5	3	4
	Dec 2022	209	32	4	6	3	4
	Jan 2023	228	33	4	7	3	4
	Feb 2023	198	30	4	6	3	3
	Mar 2023	206	30	5	8	4	2
	Winter 2023	1187	189	16	60	32	20
	Apr 2023	181	29	14	22	12	1
	May 2023	181	45	14	26	15	1
	Jun 2023	193	16	13	23	14	2
	Jul 2023	220	17	20	28	14	4
	Aug 2023	231	20	21	29	14	4
	Sep 2023	171	19	20	28	13	4
	Summer 2023	1177	146	103	154	81	16
	Oct 2023	154	17	19	27	9	4
	Nov 2023	161	16	4	7	3	3
	Dec 2023	0	17	3	6	3	3
	Jan 2024	0	17	3	6	3	3
	Feb 2024	0	16	3	6	3	3
	Mar 2024	0	17	5	7	4	3
	Winter 2024	315	99	37	58	27	18
	Apr 2024	0	16	8	14	9	2
	May 2024	0	42	14	24	15	3
	Jun 2024	186	19	18	26	15	5
	Jul 2024	211	17	25	32	16	5
	Aug 2024	205	17	22	28	14	5
	Sep 2024	74	17	21	28	14	4
	Summer 2024	602	112	87	125	69	19

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2022 24-Month Study

Minimum 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 ****								**** CREDITABLE SPACE ****										
Oct 2022	1,057	533	776	17516	19882	20292	40174	1057	533	776	2366	17516	20292	40174	3040	488	0	19.3
Nov 2022	1,115	579	797	17573	20063	20309	40371	1115	579	797	2490	17573	20309	40371	3810	676	0	19.1
Dec 2022	1,169	567	803	17675	20214	20468	40682	1169	567	803	2539	17675	20468	40682	4580	427	0	19.0
Jan 2023	1,239	559	809	17907	20513	20283	40796	1239	559	809	2606	17907	20283	40796	5350	608	0	18.6
**** EFFECTIVE SPACE ****								**** CREDITABLE SPACE ****										
Jan 2023	1,239	559	809	17907	20513	20283	40796	-97	116	195	214	17907	20283	38404	5350	608	0	18.6
Feb 2023	1,324	561	805	18322	21012	20173	41186	-12	121	191	299	18322	20173	38795	1500	552	0	18.3
Mar 2023	1,397	563	802	18664	21427	20099	41525	60	125	186	371	18664	20099	39134	1500	887	0	17.7
Apr 2023	1,446	564	780	19004	21794	20329	42122	107	127	159	393	19004	20329	39725	1500	998	0	17.2
May 2023	1,482	587	751	19180	22001	20745	42746	141	149	111	401	19180	20745	40326	1500	979	0	17.1
Jun 2023	1,531	533	685	18922	21671	21183	42854	186	85	4	275	18922	21183	40380	1500	919	0	17.3
Jul 2023	1,407	445	705	18524	21081	21585	42666	51	-18	-16	16	18524	21585	40125	1500	831	0	16.8
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2023	1,370	458	763	18725	21315	21807	43122	1370	458	763	2590	18725	21807	43122	1500	802	0	16.1
Sep 2023	1,407	496	834	19084	21820	21912	43733	1407	496	834	2736	19084	21912	43733	2270	696	0	15.6
Oct 2023	1,450	542	870	19297	22160	22079	44239	1450	542	870	2862	19297	22079	44239	3040	531	0	15.1
Nov 2023	1,482	594	890	19454	22420	22132	44552	1482	594	890	2966	19454	22132	44552	3810	653	0	14.8
Dec 2023	1,500	585	897	19618	22601	22265	44865	1500	585	897	2983	19618	22265	44865	4580	547	0	14.7
Jan 2024	1,521	574	899	19856	22849	22185	45034	1521	574	899	2994	19856	22185	45034	5350	549	0	14.6
**** EFFECTIVE SPACE ****								**** CREDITABLE SPACE ****										
Jan 2024	1,521	574	899	19856	22849	22185	45034	300	244	249	792	19856	22185	42832	5350	549	0	14.6
Feb 2024	1,536	563	899	20166	23164	22019	45183	312	233	248	793	20166	22019	42979	1500	497	0	14.6
Mar 2024	1,545	553	891	20375	23365	21889	45254	319	224	240	782	20375	21889	43046	1500	830	0	14.4
Apr 2024	1,533	535	856	20500	23424	22039	45463	303	206	198	707	20500	22039	43246	1500	941	0	14.2
May 2024	1,498	508	817	20474	23298	22396	45693	263	174	137	574	20474	22396	43444	1500	927	0	14.7
Jun 2024	1,470	414	735	19791	22411	22773	45184	229	65	18	311	19791	22773	42876	1500	879	0	15.3
Jul 2024	1,294	327	744	19152	21517	23097	44614	40	-35	-29	-24	19152	23097	42225	1500	792	0	14.8
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2024	1,267	355	831	19403	21856	23267	45123	1267	355	831	2453	19403	23267	45123	1500	771	0	14.2
Sep 2024	1,287	383	895	19752	22318	23339	45657	1287	383	895	2565	19752	23339	45657	2270	653	0	13.7

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