



To: All Annual Operating Plan Recipients

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In addition to the December 2021 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted model runs in December to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. 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/2021/December-Chart.pdf>.

The water year 2022 unregulated inflow in the Probable Minimum inflow scenario is 3.76 million acre-feet (maf), or 39% of average. Consistent with the Interim Guidelines, the December Probable Minimum 24-Month Study includes a release volume from Glen Canyon Dam of 7.48 maf in water year 2022 and 7.00 maf in water year 2023. Under the probable minimum scenario, Lake Powell's elevation is projected to be 3,479.39 feet on December 31, 2022. With intervening flows between Lake Powell and Lake Mead of 0.764 maf in calendar year 2022, Lake Mead's elevation is projected to be 1,047.30 feet on December 31, 2022.

The 2021 AOP is available online at: <https://www.usbr.gov/lc/region/g4000/aop/AOP21.pdf>.
The Draft 2022 AOP is available online at: https://www.usbr.gov/lc/region/g4000/AOP2022/2022AOP_2021-11-03_Post-Final-Consultation.pdf.
The Interim Guidelines are available online at: <https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.
The Colorado River DCPs are available online at: <https://www.usbr.gov/dcp/finaldocs.html>.
The Upper Basin Hydrology Summary is available online at: https://www.usbr.gov/uc/water/crsp/studies/24Month_12_ucb.pdf.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	27	1	50	1	51	6483.85	180
H	Jan 2021	25	1	48	2	51	6479.03	153
I	Feb 2021	24	0	46	0	46	6474.49	132
S	Mar 2021	40	0	51	0	51	6472.03	121
T	Apr 2021	54	1	49	0	49	6473.03	125
O	May 2021	76	1	49	0	49	6478.67	152
R	Jun 2021	143	2	42	0	42	6494.76	251
I	Jul 2021	45	2	43	0	43	6494.70	250
C	Aug 2021	35	2	41	0	41	6493.52	242
A	Sep 2021	26	2	36	0	36	6491.82	230
	WY 2021	561	14	471	94	566		
L	Oct 2021	37	1	33	4	37	6491.62	229
*	Nov 2021	39	1	43	0	43	6491.01	225
	Dec 2021	28	1	51	0	51	6487.47	210
	Jan 2022	25	1	51	0	51	6483.19	184
	Feb 2022	22	1	46	0	46	6478.80	160
	Mar 2022	37	1	44	0	44	6477.41	153
	Apr 2022	55	1	13	17	30	6482.02	177
	May 2022	73	2	31	0	31	6488.58	218
	Jun 2022	107	2	30	0	30	6499.20	292
	Jul 2022	51	3	39	0	39	6500.38	301
	Aug 2022	28	2	49	0	49	6497.19	277
	Sep 2022	25	2	38	9	48	6493.83	253
	WY 2022	526	15	467	30	497		
	Oct 2022	34	1	55	0	55	6490.50	230
	Nov 2022	36	1	55	0	55	6487.54	211
	Dec 2022	31	1	57	0	57	6483.24	184
	Jan 2023	29	1	57	0	57	6477.98	156
	Feb 2023	26	0	51	0	51	6472.62	130
	Mar 2023	43	0	57	0	57	6469.32	115
	Apr 2023	66	1	59	0	59	6470.77	122
	May 2023	117	1	68	0	68	6480.74	170
	Jun 2023	202	2	76	0	76	6499.53	295
	Jul 2023	91	3	63	0	63	6502.84	320
	Aug 2023	42	2	61	0	61	6499.99	298
	Sep 2023	32	2	60	0	60	6496.04	269
	WY 2023	749	15	718	0	718		
	Oct 2023	44	1	61	0	61	6493.44	251
	Nov 2023	42	1	60	0	60	6490.81	233

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
H	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
I	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
S	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
T	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
O	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
R	Jun 2021	148	46	10	80	0	80	125	6023.52	3106	205
I	Jul 2021	48	43	12	65	0	65	124	6022.61	3073	80
C	Aug 2021	44	50	12	98	0	98	121	6021.02	3016	111
A	Sep 2021	27	37	10	96	0	96	119	6019.15	2950	107
	WY 2021	650	657	77	835	0	835				1430
L	Oct 2021	49	50	7	77	0	77	117	6018.23	2918	107
*	Nov 2021	47	49	3	51	0	51	117	6018.09	2913	87
	Dec 2021	30	53	2	52	0	52	117	6018.06	2912	73
	Jan 2022	32	58	2	52	0	52	117	6018.17	2915	71
	Feb 2022	31	55	2	47	0	47	118	6018.32	2921	67
	Mar 2022	66	73	3	49	0	49	118	6018.90	2941	98
	Apr 2022	83	57	5	48	0	48	119	6019.04	2946	165
	May 2022	107	65	7	94	0	94	117	6018.03	2911	377
	Jun 2022	124	47	10	49	0	49	117	6017.72	2900	157
	Jul 2022	55	43	12	79	0	79	115	6016.40	2854	85
	Aug 2022	23	44	11	86	0	86	113	6014.90	2803	89
	Sep 2022	25	47	10	83	0	83	111	6013.59	2759	86
	WY 2022	670	641	72	767	0	767				1463
	Oct 2022	37	59	6	55	0	55	111	6013.54	2758	68
	Nov 2022	41	60	3	48	0	48	111	6013.81	2767	70
	Dec 2022	31	57	2	49	0	49	112	6013.99	2773	74
	Jan 2023	39	67	2	49	0	49	112	6014.45	2788	74
	Feb 2023	40	65	2	44	0	44	113	6015.00	2807	70
	Mar 2023	70	84	3	49	0	49	114	6015.90	2837	115
	Apr 2023	93	86	4	48	0	48	116	6016.85	2870	212
	May 2023	169	120	7	120	0	120	115	6016.63	2862	532
	Jun 2023	250	124	9	72	0	72	117	6017.81	2903	298
	Jul 2023	91	63	12	97	0	97	115	6016.51	2858	116
	Aug 2023	43	63	11	105	0	105	113	6015.01	2807	115
	Sep 2023	33	60	10	103	0	103	111	6013.51	2757	109
	WY 2023	937	907	71	838	0	838				1853
	Oct 2023	52	69	6	66	0	66	111	6013.42	2754	91
	Nov 2023	49	66	3	51	0	51	111	6013.78	2766	80

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Taylor Park Reservoir



— BUREAU OF —
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Dec 2020	4	5	9307.73	66
H Jan 2021	4	5	9306.89	65
I Feb 2021	3	5	9305.99	64
S Mar 2021	4	5	9304.90	62
T Apr 2021	7	5	9305.94	64
O May 2021	16	10	9310.13	70
R Jun 2021	24	16	9314.87	78
I Jul 2021	11	16	9311.57	72
C Aug 2021	7	15	9306.36	64
A Sep 2021	4	10	9302.48	59
WY 2021	92	102		
L Oct 2021	5	5	9302.69	59
* Nov 2021	4	4	9302.58	59
Dec 2021	4	5	9301.87	58
Jan 2022	3	5	9301.01	57
Feb 2022	3	4	9299.99	55
Mar 2022	5	5	9299.91	55
Apr 2022	7	4	9302.18	58
May 2022	21	9	9310.40	71
Jun 2022	19	14	9313.23	75
Jul 2022	7	17	9306.82	65
Aug 2022	6	15	9300.79	56
Sep 2022	5	12	9295.85	50
WY 2022	89	98		
Oct 2022	6	6	9295.58	49
Nov 2022	4	4	9296.08	50
Dec 2022	4	4	9296.45	50
Jan 2023	4	4	9296.88	51
Feb 2023	4	3	9297.24	51
Mar 2023	4	4	9297.78	52
Apr 2023	8	4	9300.72	56
May 2023	23	9	9310.02	70
Jun 2023	28	15	9317.90	83
Jul 2023	9	18	9312.78	74
Aug 2023	7	15	9307.54	66
Sep 2023	6	12	9303.52	60
WY 2023	107	97		
Oct 2023	7	6	9303.95	61
Nov 2023	5	5	9304.17	61

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	21	22	0	21	0	21	7464.73	397
H	Jan 2021	22	23	0	19	0	19	7465.24	400
I	Feb 2021	20	22	0	21	0	21	7465.37	401
S	Mar 2021	29	30	0	32	0	32	7465.07	399
T	Apr 2021	47	46	1	79	0	79	7459.68	365
O	May 2021	90	83	1	96	2	98	7457.14	350
R	Jun 2021	127	119	1	77	0	77	7463.84	391
I	Jul 2021	53	58	1	98	0	98	7457.21	350
C	Aug 2021	45	53	1	93	0	93	7450.20	310
A	Sep 2021	19	25	1	94	0	94	7436.58	241
	WY 2021	518	528	6	713	2	715		
L	Oct 2021	27	26	0	58	0	58	7429.52	209
*	Nov 2021	27	27	0	16	0	16	7431.94	220
	Dec 2021	19	20	0	17	0	17	7432.51	222
	Jan 2022	18	19	0	18	0	18	7432.86	224
	Feb 2022	16	17	0	14	0	14	7433.47	227
	Mar 2022	31	31	0	18	0	18	7436.19	239
	Apr 2022	48	45	0	42	0	42	7436.77	242
	May 2022	112	99	1	48	0	48	7446.90	293
	Jun 2022	83	78	1	62	0	62	7449.68	308
	Jul 2022	34	44	1	81	0	81	7442.50	270
	Aug 2022	29	38	1	78	0	78	7434.01	229
	Sep 2022	21	28	1	73	0	73	7423.49	183
	WY 2022	463	472	5	525	0	525		
	Oct 2022	26	26	0	69	0	69	7412.19	140
	Nov 2022	27	26	0	14	0	14	7415.61	153
	Dec 2022	26	25	0	14	0	14	7418.46	163
	Jan 2023	24	24	0	14	0	14	7420.87	173
	Feb 2023	23	22	0	13	0	13	7423.28	182
	Mar 2023	35	34	0	17	0	17	7427.28	199
	Apr 2023	64	60	0	40	0	40	7431.66	218
	May 2023	159	145	1	61	0	61	7448.76	303
	Jun 2023	164	151	1	58	0	58	7464.38	395
	Jul 2023	53	62	1	82	0	82	7461.02	373
	Aug 2023	42	50	1	81	0	81	7455.85	342
	Sep 2023	29	35	1	75	0	75	7448.52	301
	WY 2023	672	661	6	538	0	538		
	Oct 2023	36	35	0	70	0	70	7441.71	266
	Nov 2023	31	31	0	15	0	15	7444.71	281

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	24	21	3	24	23	0	23	7148.38	108
H	Jan 2021	23	19	1	21	23	0	23	7145.78	106
I	Feb 2021	21	21	1	22	21	0	21	7146.38	106
S	Mar 2021	30	32	1	33	35	0	35	7143.99	104
T	Apr 2021	49	79	1	81	82	0	82	7141.50	103
O	May 2021	93	98	4	102	91	0	91	7155.08	113
R	Jun 2021	132	77	4	81	85	0	85	7150.02	109
I	Jul 2021	54	98	1	99	97	0	97	7152.51	111
C	Aug 2021	46	93	1	93	94	0	94	7150.92	110
A	Sep 2021	19	94	0	94	93	0	93	7152.50	111
	WY 2021	539	715	21	736	734	0	734		
L	Oct 2021	27	58	1	59	61	0	61	7149.67	109
*	Nov 2021	30	16	3	19	17	0	17	7151.77	110
	Dec 2021	20	17	1	18	17	0	17	7153.73	112
	Jan 2022	19	18	1	19	19	0	19	7153.73	112
	Feb 2022	18	14	2	16	16	0	16	7153.73	112
	Mar 2022	34	18	3	21	21	0	21	7153.73	112
	Apr 2022	55	42	7	49	48	0	48	7153.73	112
	May 2022	125	48	13	61	61	0	61	7153.73	112
	Jun 2022	89	62	7	69	69	0	69	7153.72	112
	Jul 2022	35	81	0	82	81	0	81	7153.73	112
	Aug 2022	32	78	3	81	80	0	80	7153.73	112
	Sep 2022	24	73	2	75	75	0	75	7153.73	112
	WY 2022	507	525	44	568	567	0	567		
	Oct 2022	29	69	3	72	72	0	72	7153.73	112
	Nov 2022	29	14	2	16	15	0	15	7153.73	112
	Dec 2022	27	14	1	16	16	0	16	7153.73	112
	Jan 2023	26	14	2	16	16	0	16	7153.73	112
	Feb 2023	25	13	2	14	14	0	14	7153.73	112
	Mar 2023	37	17	2	19	19	0	19	7153.73	112
	Apr 2023	72	40	9	49	49	0	49	7153.73	112
	May 2023	176	61	17	77	77	0	77	7153.73	112
	Jun 2023	173	58	9	66	66	0	66	7153.72	112
	Jul 2023	54	82	1	83	83	0	83	7153.73	112
	Aug 2023	43	81	1	82	82	0	82	7153.73	112
	Sep 2023	30	75	1	76	76	0	76	7153.73	112
	WY 2023	720	538	48	586	585	0	585		
	Oct 2023	37	70	1	72	72	0	72	7153.73	112
	Nov 2023	32	15	1	16	16	0	16	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Crystal Reservoir



— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
H	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
I	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
S	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
T	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
O	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
R	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
I	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
C	Aug 2021	52	94	6	100	100	0	100	6751.69	17	65	38
A	Sep 2021	23	93	3	96	95	0	96	6752.92	17	61	36
	WY 2021	591	734	52	785	762	22	784			423	365
L	Oct 2021	32	61	5	66	34	32	66	6752.35	17	41	25
*	Nov 2021	34	17	4	21	22	0	22	6749.65	16	1	20
	Dec 2021	23	17	3	20	19	0	19	6753.04	17	0	19
	Jan 2022	22	19	3	22	22	0	22	6753.04	17	0	22
	Feb 2022	21	16	3	19	19	0	19	6753.04	17	0	19
	Mar 2022	39	21	5	26	26	0	26	6753.04	17	5	21
	Apr 2022	66	48	11	60	60	0	60	6753.04	17	42	18
	May 2022	146	61	21	82	82	0	82	6753.04	17	62	20
	Jun 2022	102	69	13	82	82	0	82	6753.03	17	61	21
	Jul 2022	38	81	3	85	85	0	85	6753.04	17	65	20
	Aug 2022	36	80	4	85	85	0	85	6753.04	17	65	20
	Sep 2022	27	75	3	79	79	0	79	6753.04	17	55	24
	WY 2022	586	567	79	645	613	32	645			396	247
	Oct 2022	33	72	4	76	76	0	76	6753.04	17	55	21
	Nov 2022	32	15	4	19	0	19	19	6753.04	17	0	19
	Dec 2022	31	16	4	20	20	0	20	6753.04	17	0	20
	Jan 2023	30	16	4	20	20	0	20	6753.04	17	0	20
	Feb 2023	28	14	4	18	18	0	18	6753.04	17	0	18
	Mar 2023	42	19	5	25	25	0	25	6753.04	17	5	20
	Apr 2023	82	49	10	58	58	0	58	6753.04	17	42	16
	May 2023	195	77	19	96	96	0	96	6753.04	17	62	34
	Jun 2023	190	66	17	83	83	0	83	6753.03	17	61	22
	Jul 2023	57	83	3	86	86	0	86	6753.04	17	65	21
	Aug 2023	48	82	5	86	86	0	86	6753.04	17	65	21
	Sep 2023	34	76	4	80	80	0	80	6753.04	17	55	25
	WY 2023	803	585	83	669	649	19	668			410	258
	Oct 2023	43	72	6	78	52	25	78	6753.04	17	55	23
	Nov 2023	37	16	5	21	21	0	21	6753.04	17	0	21

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Vallecito Reservoir



— BUREAU OF —
RECLAMATION

	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2020	3	0	7624.62	36
H	Jan 2021	3	0	7626.24	38
I	Feb 2021	3	0	7627.63	41
S	Mar 2021	4	0	7629.73	44
T	Apr 2021	14	1	7636.28	57
O	May 2021	50	30	7645.56	77
R	Jun 2021	44	39	7647.63	81
I	Jul 2021	19	36	7639.49	63
C	Aug 2021	13	34	7628.72	43
A	Sep 2021	7	26	7615.74	24
	WY 2021	166	169		
L	Oct 2021	8	3	7619.62	29
*	Nov 2021	5	2	7621.90	32
	Dec 2021	4	2	7623.37	34
	Jan 2022	4	2	7624.76	36
	Feb 2022	4	2	7625.87	38
	Mar 2022	5	2	7627.77	41
	Apr 2022	14	2	7634.47	53
	May 2022	39	20	7643.40	72
	Jun 2022	18	27	7638.95	62
	Jul 2022	7	27	7628.31	42
	Aug 2022	8	25	7616.91	25
	Sep 2022	7	19	7604.13	12
	WY 2022	122	132		
	Oct 2022	7	11	7598.47	8
	Nov 2022	7	2	7605.12	13
	Dec 2022	6	2	7610.10	18
	Jan 2023	6	2	7613.87	22
	Feb 2023	5	2	7616.88	25
	Mar 2023	8	2	7621.40	31
	Apr 2023	19	2	7632.08	49
	May 2023	56	29	7645.29	76
	Jun 2023	40	39	7645.28	76
	Jul 2023	13	38	7633.07	51
	Aug 2023	12	35	7618.34	27
	Sep 2023	11	28	7602.28	11
	WY 2023	191	190		
	Oct 2023	13	15	7599.93	9
	Nov 2023	9	2	7608.60	16

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
H	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
I	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
S	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
T	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
O	May 2021	169	25	124	3	34	26	6039.27	1105	65
R	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
I	Jul 2021	24	2	40	4	45	35	6035.96	1070	57
C	Aug 2021	5	1	24	3	39	41	6030.18	1010	48
A	Sep 2021	-2	0	17	2	25	50	6024.10	951	49
	WY 2021	463	60	406	23	222	360			549
L	Oct 2021	22	0	17	1	2	30	6022.31	887	45
*	Nov 2021	14	0	11	1	0	18	6021.39	879	36
	Dec 2021	15	0	13	0	0	19	6020.69	872	29
	Jan 2022	15	0	13	0	0	23	6019.53	862	33
	Feb 2022	18	0	16	1	0	20	6019.05	858	27
	Mar 2022	54	3	48	1	5	22	6021.22	877	34
	Apr 2022	84	8	64	2	16	20	6024.05	903	48
	May 2022	142	16	107	3	30	18	6029.88	958	103
	Jun 2022	29	1	37	3	47	41	6024.21	905	95
	Jul 2022	-4	1	16	3	51	54	6013.86	813	70
	Aug 2022	-18	0	-2	2	42	41	6003.21	726	58
	Sep 2022	-5	0	8	2	21	36	5996.61	675	49
	WY 2022	366	29	346	19	215	341			624
	Oct 2022	2	0	6	1	9	33	5991.55	637	46
	Nov 2022	15	0	10	1	0	21	5990.07	627	35
	Dec 2022	24	0	20	0	0	18	5990.30	628	32
	Jan 2023	24	0	19	0	0	20	5990.19	627	33
	Feb 2023	27	1	23	0	0	14	5991.24	635	26
	Mar 2023	75	6	63	1	5	15	5996.77	676	33
	Apr 2023	110	11	80	2	21	15	6002.38	719	55
	May 2023	190	24	139	2	35	15	6012.93	805	127
	Jun 2023	102	10	91	3	51	17	6015.33	825	116
	Jul 2023	9	0	34	3	56	49	6006.40	751	80
	Aug 2023	1	0	24	2	47	42	5997.78	684	65
	Sep 2023	13	0	29	2	26	37	5992.99	648	57
	WY 2023	590	52	537	17	250	297			704
	Oct 2023	35	1	36	1	9	23	5993.38	651	45
	Nov 2023	30	0	23	1	0	18	5994.00	655	36

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Lake Powell



— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
H	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
I	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
S	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
T	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
O	May 2021	543	495	20	624	0	624	3560.57	4723	8366	649
R	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	663
I	Jul 2021	193	305	36	767	0	767	3553.88	4683	7866	763
C	Aug 2021	292	452	35	801	0	801	3548.96	4655	7511	785
A	Sep 2021	159	380	31	622	0	622	3545.36	4634	7258	625
	WY 2021	3502	4064	277	8229	0	8229				8279
L	Oct 2021	317	419	21	481	0	481	3544.25	4628	7181	489
*	Nov 2021	346	342	20	500	0	500	3541.84	4615	7016	496
	Dec 2021	240	262	16	600	0	600	3536.94	4589	6688	613
	Jan 2022	240	268	4	723	0	723	3530.37	4555	6262	744
	Feb 2022	250	267	4	639	0	639	3524.78	4527	5913	657
	Mar 2022	377	323	7	675	0	675	3519.25	4500	5580	688
	Apr 2022	373	292	11	601	0	601	3514.17	4476	5284	616
	May 2022	808	655	13	599	0	599	3514.87	4480	5324	606
	Jun 2022	603	567	20	628	0	628	3513.55	4474	5248	632
	Jul 2022	51	230	23	709	0	709	3505.20	4436	4783	716
	Aug 2022	41	254	22	758	0	758	3495.96	4397	4296	776
	Sep 2022	117	289	19	567	0	567	3490.48	4375	4021	583
	WY 2022	3762	4166	182	7480	0	7480				7617
	Oct 2022	241	342	13	480	0	480	3487.63	4364	3881	489
	Nov 2022	360	359	12	423	77	500	3484.67	4353	3739	514
	Dec 2022	342	342	10	0	600	600	3479.39	4333	3491	613
	Jan 2023	321	318	2	0	664	664	3472.22	4307	3168	683
	Feb 2023	373	356	2	0	587	587	3467.22	4290	2952	604
	Mar 2023	564	478	4	0	620	620	3464.00	4279	2817	638
	Apr 2023	720	589	6	0	552	552	3464.68	4281	2845	569
	May 2023	1589	1326	8	0	550	550	3480.80	4338	3556	558
	Jun 2023	1600	1292	15	577	0	577	3494.14	4390	4204	581
	Jul 2023	286	417	20	652	0	652	3489.41	4371	3968	661
	Aug 2023	198	386	19	0	696	696	3483.09	4347	3664	713
	Sep 2023	220	387	17	0	522	522	3480.08	4336	3523	537
	WY 2023	6815	6590	128	2132	4868	7000				7160
	Oct 2023	417	463	12	0	480	480	3479.51	4333	3496	492
	Nov 2023	446	419	12	0	500	500	3477.65	4327	3411	503

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Hoover Dam - Lake Mead



— BUREAU OF —
RECLAMATION

	Glen Release	Side Inflow	Evap	Total	Total	SNWP	Downstream	Bank	Reservoir Elev	EOM
Date	(1000 Ac-Ft)	Glen to Hoover	Losses	Release	Release	Use	Requirements	Storage	End of Month	Storage
* Dec 2020	719	59	37	497	8.1	8	500	671	1083.72	10322
H Jan 2021	763	72	30	593	9.6	11	616	683	1085.95	10510
I Feb 2021	675	55	28	574	10.3	8	581	690	1087.26	10622
S Mar 2021	700	33	31	945	15.4	15	936	675	1084.39	10378
T Apr 2021	628	36	38	1057	17.8	22	1056	647	1079.30	9953
O May 2021	624	9	43	1067	17.4	27	1058	616	1073.50	9480
R Jun 2021	651	-31	51	939	15.8	32	927	592	1068.77	9102
I Jul 2021	767	95	63	862	14.0	31	854	586	1067.65	9014
C Aug 2021	801	89	67	766	12.5	31	766	587	1067.96	9038
A Sep 2021	622	50	55	616	10.4	24	614	586	1067.68	9016
WY 2021	8229	558	529	9361		242	9360			
L Oct 2021	481	81	40	581	9.4	17	585	581	1066.77	8945
* Nov 2021	500	43	40	642	10.8	11	649	572	1064.97	8804
Dec 2021	600	64	34	508	8.3	10	508	579	1066.31	8909
Jan 2022	723	104	28	607	9.9	11	607	590	1068.47	9078
Feb 2022	639	87	26	552	9.9	11	552	598	1070.08	9206
Mar 2022	675	64	29	877	14.3	13	877	587	1067.93	9036
Apr 2022	601	72	36	979	16.5	18	979	565	1063.59	8698
May 2022	599	36	40	958	15.6	31	958	541	1058.73	8327
Jun 2022	628	21	48	931	15.6	31	931	519	1054.19	7989
Jul 2022	709	36	59	853	13.9	37	853	507	1051.58	7797
Aug 2022	758	90	62	810	13.2	37	810	503	1050.79	7740
Sep 2022	567	78	51	709	11.9	29	709	494	1048.93	7606
WY 2022	7480	774	493	9008		256	9020			
Oct 2022	480	43	37	532	8.7	22	532	490	1048.04	7542
Nov 2022	500	69	36	654	11.0	12	654	482	1046.27	7416
Dec 2022	600	64	31	547	8.9	8	547	487	1047.30	7489
Jan 2023	664	95	26	625	10.2	11	625	493	1048.58	7581
Feb 2023	587	83	24	558	10.0	8	558	498	1049.63	7657
Mar 2023	620	86	26	879	14.3	16	879	485	1046.81	7454
Apr 2023	552	83	32	983	16.5	18	983	460	1041.48	7080
May 2023	550	41	36	967	15.7	22	967	434	1035.51	6672
Jun 2023	577	20	43	917	15.4	31	917	410	1029.95	6302
Jul 2023	652	43	52	826	13.4	35	826	396	1026.81	6097
Aug 2023	696	84	55	793	12.9	37	793	390	1025.29	5999
Sep 2023	522	71	45	703	11.8	33	703	379	1022.52	5823
WY 2023	7000	783	443	8984		255	8984			
Oct 2023	480	58	32	535	8.7	27	535	375	1021.70	5771
Nov 2023	500	71	32	663	11.1	15	663	367	1019.62	5641

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
H	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
I	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
S	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
T	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
O	May 2021	1067	9	22	1055	0	1055	17.2	642.32	1680
R	Jun 2021	939	15	25	901	0	901	15.1	643.33	1708
I	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
C	Aug 2021	766	-6	23	731	0	731	11.9	643.54	1713
A	Sep 2021	616	9	18	756	0	756	12.7	638.04	1565
	WY 2021	9361	-82	198	9040	0	9040			
L	Oct 2021	581	-3	15	638	0	658	10.7	634.42	1471
*	Nov 2021	642	-9	10	543	0	543	9.1	637.48	1551
	Dec 2021	508	-11	9	456	0	456	7.4	638.70	1583
	Jan 2022	607	-17	10	498	0	498	8.1	641.80	1666
	Feb 2022	552	-9	10	533	0	533	9.6	641.80	1666
	Mar 2022	877	-7	13	823	0	823	13.4	643.05	1700
	Apr 2022	979	-8	17	956	0	956	16.1	643.00	1699
	May 2022	958	-8	22	928	0	928	15.1	643.00	1699
	Jun 2022	931	-13	25	892	0	892	15.0	643.00	1699
	Jul 2022	853	-10	25	845	0	845	13.7	642.00	1671
	Aug 2022	810	-11	23	776	0	776	12.6	642.00	1671
	Sep 2022	709	-11	18	733	0	733	12.3	640.01	1617
	WY 2022	9008	-116	197	8623	0	8642			
	Oct 2022	532	-11	15	689	0	689	11.2	633.00	1434
	Nov 2022	654	-23	10	570	0	570	9.6	635.00	1486
	Dec 2022	547	-11	9	409	0	409	6.6	639.51	1604
	Jan 2023	625	-17	10	537	0	537	8.7	641.80	1666
	Feb 2023	558	-9	10	539	0	539	9.7	641.80	1666
	Mar 2023	879	-7	13	825	0	825	13.4	643.05	1700
	Apr 2023	983	-8	17	960	0	960	16.1	643.00	1699
	May 2023	967	-8	22	937	0	937	15.2	643.00	1699
	Jun 2023	917	-13	25	878	0	878	14.8	643.00	1699
	Jul 2023	826	-10	25	818	0	818	13.3	642.00	1671
	Aug 2023	793	-11	23	759	0	759	12.3	642.00	1671
	Sep 2023	703	-11	18	727	0	727	12.2	640.01	1617
	WY 2023	8984	-138	197	8647	0	8647			
	Oct 2023	535	-11	15	692	0	692	11.3	633.00	1434
	Nov 2023	663	-23	10	578	0	578	9.7	635.00	1486

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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)
*	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
H	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
I	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
S	Mar 2021	920	1	9	663	10.8	99	149	447.28	566	179	2.9
T	Apr 2021	1028	0	11	728	12.2	102	163	448.04	581	167	2.8
O	May 2021	1055	-2	13	746	12.1	107	168	448.51	590	145	2.4
R	Jun 2021	901	21	15	706	11.9	103	87	448.55	591	151	2.5
I	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	147	2.4
C	Aug 2021	731	16	17	586	9.5	100	48	447.51	571	121	2.0
A	Sep 2021	756	5	15	516	8.7	97	106	448.49	590	116	1.9
	WY 2021	9040	117	140	6393		1065	1441			1519	
L	Oct 2021	658	17	12	421	6.8	99	139	448.37	587	66	1.1
*	Nov 2021	543	14	9	348	5.8	96	124	447.05	562	92	1.5
	Dec 2021	456	20	6	280	4.6	99	96	446.50	552	90	1.5
	Jan 2022	498	17	6	313	5.1	106	85	446.50	552	138	2.2
	Feb 2022	533	7	8	398	7.2	26	103	446.50	552	124	2.2
	Mar 2022	823	7	9	598	9.7	106	105	446.70	555	147	2.4
	Apr 2022	956	11	11	698	11.7	103	108	448.70	593	147	2.5
	May 2022	928	9	13	699	11.4	106	107	448.70	593	110	1.8
	Jun 2022	892	6	16	706	11.9	103	61	448.70	593	116	2.0
	Jul 2022	845	15	17	683	11.1	106	56	448.00	580	123	2.0
	Aug 2022	776	15	17	611	9.9	106	55	447.50	571	101	1.6
	Sep 2022	733	14	15	526	8.8	103	93	447.50	570	99	1.7
	WY 2022	8642	152	140	6281		1160	1132			1353	
	Oct 2022	689	21	12	483	7.9	106	104	447.50	571	89	1.4
	Nov 2022	570	18	9	367	6.2	103	104	447.50	570	115	1.9
	Dec 2022	409	20	7	248	4.0	106	82	446.50	552	110	1.8
	Jan 2023	537	17	6	310	5.0	106	126	446.50	552	136	2.2
	Feb 2023	539	7	8	395	7.1	26	111	446.50	552	122	2.2
	Mar 2023	825	7	9	590	9.6	106	115	446.70	555	145	2.4
	Apr 2023	960	11	11	691	11.6	103	118	448.70	593	144	2.4
	May 2023	937	9	13	697	11.3	106	118	448.70	593	108	1.8
	Jun 2023	878	6	16	703	11.8	103	50	448.70	593	114	1.9
	Jul 2023	818	15	17	668	10.9	106	42	448.00	580	120	2.0
	Aug 2023	759	15	17	608	9.9	106	40	447.50	571	100	1.6
	Sep 2023	727	14	15	516	8.7	103	96	447.50	570	97	1.6
	WY 2023	8647	161	139	6275		1181	1107			1400	
	Oct 2023	692	21	12	476	7.7	106	113	447.50	571	87	1.4
	Nov 2023	578	18	9	366	6.1	103	113	447.50	570	113	1.9

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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
*	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
H	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
I	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
S	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
T	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
O	May 2021	1067	17.4	1073.50	9480	-473	423.99	1042.9	433.7	69	406.4
R	Jun 2021	939	15.8	1068.77	9102	-378	419.04	1451.0	366.8	100	390.7
I	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
C	Aug 2021	766	12.5	1067.96	9038	24	421.53	1322.1	286.1	93	373.4
A	Sep 2021	616	10.4	1067.68	9016	-22	425.37	1228.0	232.0	87	376.5
WY 2021		9361							3643.8		
L	Oct 2021	581	9.4	1066.77	8945	-71	422.27	1228.0	216.2	87	372.4
*	Nov 2021	642	10.8	1064.97	8804	-140	421.30	938.0	241.3	67	375.8
	Dec 2021	508	8.3	1066.31	8909	105	418.93	957.0	192.6	68	379.1
	Jan 2022	607	9.9	1068.47	9078	169	419.29	975.1	228.9	67	376.8
	Feb 2022	552	9.9	1070.08	9206	128	420.14	977.0	208.5	67	377.8
	Mar 2022	877	14.3	1067.93	9036	-170	418.78	1071.0	338.6	74	385.9
	Apr 2022	979	16.5	1063.59	8698	-338	415.00	1053.7	368.7	75	376.5
	May 2022	958	15.6	1058.73	8327	-371	410.57	1008.2	359.7	74	375.3
	Jun 2022	931	15.6	1054.19	7989	-339	403.21	1318.3	337.7	100	362.8
	Jul 2022	853	13.9	1051.58	7797	-191	400.00	1296.1	309.3	100	362.5
	Aug 2022	810	13.2	1050.79	7740	-57	398.64	1289.5	291.0	100	359.3
	Sep 2022	709	11.9	1048.93	7606	-134	397.98	1273.6	251.7	100	355.0
WY 2022		9008							3344.2		
	Oct 2022	532	8.7	1048.04	7542	-64	401.19	986.1	188.0	78	353.2
	Nov 2022	654	11.0	1046.27	7416	-125	401.50	1052.8	233.4	84	357.0
	Dec 2022	547	8.9	1047.30	7489	73	398.97	1066.0	192.3	85	351.6
	Jan 2023	625	10.2	1048.58	7581	92	397.94	1070.7	222.4	84	356.0
	Feb 2023	558	10.0	1049.63	7657	76	400.01	874.2	200.7	68	359.7
	Mar 2023	879	14.3	1046.81	7454	-202	398.19	921.4	321.1	73	365.3
	Apr 2023	983	16.5	1041.48	7080	-374	392.38	1048.8	344.6	87	350.5
	May 2023	967	15.7	1035.51	6672	-408	387.26	951.0	337.9	82	349.3
	Jun 2023	917	15.4	1029.95	6302	-369	381.66	900.7	314.1	81	342.6
	Jul 2023	826	13.4	1026.81	6097	-205	375.76	1083.9	277.3	100	335.7
	Aug 2023	793	12.9	1025.29	5999	-98	373.78	1070.9	263.4	100	332.3
	Sep 2023	703	11.8	1022.52	5823	-176	372.31	1047.4	230.7	100	328.2
WY 2023		8984							3125.9		
	Oct 2023	535	8.7	1021.70	5771	-52	375.04	810.4	175.8	78	328.8
	Nov 2023	663	11.1	1019.62	5641	-130	376.29	755.3	220.9	74	333.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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
*	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
H	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
I	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
S	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
T	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
O	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
R	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
I	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
C	Aug 2021	731	11.9	643.54	1713	6	144.21	255.0	93.7	100	128.2
A	Sep 2021	756	12.7	638.04	1565	-148	136.46	255.0	95.1	100	125.8
WY 2021		9040							1141.6		
L	Oct 2021	638	10.7	634.42	1471	-95	134.72	215.5	80.2	85	125.6
*	Nov 2021	543	9.1	637.48	1551	80	136.32	164.9	65.8	65	121.0
	Dec 2021	456	7.4	638.70	1583	32	137.36	192.5	56.4	75	123.7
	Jan 2022	498	8.1	641.80	1666	83	139.21	159.6	62.4	63	125.4
	Feb 2022	533	9.6	641.80	1666	0	140.11	176.7	67.3	69	126.2
	Mar 2022	823	13.4	643.05	1700	34	139.25	255.0	103.3	100	125.5
	Apr 2022	956	16.1	643.00	1699	-2	138.91	255.0	119.7	100	125.1
	May 2022	928	15.1	643.00	1699	0	139.22	255.0	116.4	100	125.4
	Jun 2022	892	15.0	643.00	1699	0	139.25	255.0	111.9	100	125.5
	Jul 2022	845	13.7	642.00	1671	-27	139.19	255.0	106.0	100	125.4
	Aug 2022	776	12.6	642.00	1671	0	139.11	255.0	97.3	100	125.3
	Sep 2022	733	12.3	640.01	1617	-54	138.23	255.0	91.3	100	124.5
WY 2022		8623							1077.9		
	Oct 2022	689	11.2	633.00	1434	-183	134.16	227.0	83.3	89	120.9
	Nov 2022	570	9.6	635.00	1486	51	132.32	159.8	67.9	63	119.2
	Dec 2022	409	6.6	639.51	1604	118	136.87	154.7	50.4	61	123.3
	Jan 2023	537	8.7	641.80	1666	62	139.34	156.3	67.4	61	125.5
	Feb 2023	539	9.7	641.80	1666	0	140.07	156.6	68.0	61	126.2
	Mar 2023	825	13.4	643.05	1700	34	139.24	194.1	103.5	76	125.4
	Apr 2023	960	16.1	643.00	1699	-2	138.89	249.9	120.1	98	125.1
	May 2023	937	15.2	643.00	1699	0	139.17	255.0	117.4	100	125.4
	Jun 2023	878	14.8	643.00	1699	0	139.33	255.0	110.3	100	125.5
	Jul 2023	818	13.3	642.00	1671	-27	139.36	255.0	102.7	100	125.6
	Aug 2023	759	12.3	642.00	1671	0	139.21	255.0	95.2	100	125.4
	Sep 2023	727	12.2	640.01	1617	-54	138.26	255.0	90.6	100	124.6
WY 2023		8647							1076.8		
	Oct 2023	692	11.3	633.00	1434	-183	134.14	227.0	83.6	89	120.9
	Nov 2023	578	9.7	635.00	1486	51	132.26	159.8	68.9	63	119.2

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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
*	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
H	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
I	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
S	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
T	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
O	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
R	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
I	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
C	Aug 2021	586	9.5	447.51	571	-14	79.33	120.0	40.7	100	69.4
A	Sep 2021	516	8.7	448.49	590	19	80.37	120.0	35.7	100	69.2
WY 2021		6393							442.4		
L	Oct 2021	421	6.8	448.37	587	-2	82.15	96.8	29.7	81	70.6
*	Nov 2021	348	5.8	447.05	562	-25	81.18	90.0	24.0	75	69.1
	Dec 2021	280	4.6	446.50	552	-10	74.95	102.6	17.6	85	62.9
	Jan 2022	313	5.1	446.50	552	0	76.44	70.6	20.2	59	64.8
	Feb 2022	398	7.2	446.50	552	0	73.92	120.0	25.4	100	63.8
	Mar 2022	598	9.7	446.70	555	4	74.01	120.0	38.7	100	64.6
	Apr 2022	698	11.7	448.70	593	38	75.08	120.0	46.0	100	65.8
	May 2022	699	11.4	448.70	593	0	76.05	120.0	46.5	100	66.5
	Jun 2022	706	11.9	448.70	593	0	76.05	120.0	47.0	100	66.6
	Jul 2022	683	11.1	448.00	580	-13	75.71	120.0	45.2	100	66.2
	Aug 2022	611	9.9	447.50	571	-10	75.13	120.0	40.0	100	65.5
	Sep 2022	526	8.8	447.50	570	0	74.89	120.0	34.2	100	65.1
WY 2022		6281							414.5		
	Oct 2022	483	7.9	447.50	571	0	76.09	93.9	31.8	78	65.9
	Nov 2022	367	6.2	447.50	570	0	76.29	90.0	23.9	75	65.2
	Dec 2022	248	4.0	446.50	552	-19	74.77	111.3	15.4	93	62.2
	Jan 2023	310	5.0	446.50	552	0	75.12	93.9	19.7	78	63.6
	Feb 2023	395	7.1	446.50	552	0	75.10	94.3	25.6	79	64.8
	Mar 2023	590	9.6	446.70	555	4	74.01	120.0	38.1	100	64.6
	Apr 2023	691	11.6	448.70	593	38	75.08	120.0	45.5	100	65.8
	May 2023	697	11.3	448.70	593	0	76.05	120.0	46.3	100	66.5
	Jun 2023	703	11.8	448.70	593	0	76.05	120.0	46.8	100	66.5
	Jul 2023	668	10.9	448.00	580	-13	75.71	120.0	44.2	100	66.1
	Aug 2023	608	9.9	447.50	571	-10	75.13	120.0	39.8	100	65.5
	Sep 2023	516	8.7	447.50	570	0	74.89	120.0	33.5	100	65.0
WY 2023		6275							410.6		
	Oct 2023	476	7.7	447.50	571	0	76.24	91.0	31.4	76	66.0
	Nov 2023	366	6.1	447.50	570	0	76.19	92.0	23.8	77	65.1

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 24-Month Study

Minimum Probable Inflow*

Upper Basin Power



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RECLAMATION

		Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
	Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
*	Dec 2020	304	24	5	7	3	3
H	Jan 2021	319	24	5	6	3	3
I	Feb 2021	278	21	5	6	2	3
S	Mar 2021	285	20	8	11	6	3
	Winter 2021	1738	132	46	60	25	14
T	Apr 2021	254	19	20	28	17	3
O	May 2021	249	36	24	32	20	3
R	Jun 2021	260	30	20	30	19	3
I	Jul 2021	303	24	27	34	20	3
C	Aug 2021	310	37	25	34	20	3
A	Sep 2021	238	36	24	33	19	2
	Summer 2021	1614	182	140	190	114	17
L	Oct 2021	183	29	14	22	7	2
	Dec 2021	219	17	4	6	3	3
	Jan 2022	260	17	4	7	4	3
	Feb 2022	227	16	4	6	3	3
	Mar 2022	236	16	4	8	5	3
	Winter 2022	1124	96	31	48	21	14
	Apr 2022	207	16	10	17	10	1
	May 2022	205	31	12	22	14	2
	Jun 2022	214	16	16	25	14	2
	Jul 2022	239	26	21	29	15	3
	Aug 2022	250	28	19	29	15	4
	Sep 2022	183	27	18	27	14	3
	Summer 2022	1298	145	97	150	81	14
	Oct 2022	154	18	16	26	13	4
	Nov 2022	136	16	3	6	0	4
	Dec 2022	0	16	3	6	3	4
	Jan 2023	0	16	3	6	3	4
	Feb 2023	0	15	3	5	3	3
	Mar 2023	0	16	4	7	4	3
	Winter 2023	290	97	33	55	27	21
	Apr 2023	0	16	10	18	10	3
	May 2023	0	40	15	28	17	4
	Jun 2023	185	24	15	24	14	5
	Jul 2023	210	32	22	30	15	5
	Aug 2023	0	35	22	29	15	5
	Sep 2023	0	34	20	28	14	4
	Summer 2023	395	146	84	129	71	22
	Oct 2023	0	22	18	26	9	4
	Nov 2023	0	17	4	6	4	4

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

December 2021 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 ****										
Dec 2021	950	610	823	17306	19689	18816	38505	950	610	823	2383	17306	18816	38505	4580	508	0	22.1
Jan 2022	975	607	829	17634	20045	18711	38756	975	607	829	2411	17634	18711	38756	5350	607	0	21.9
**** EFFECTIVE SPACE ****								**** CREDITABLE SPACE ****										
Jan 2022	975	607	829	17634	20045	18711	38756	80	58	102	240	17634	18711	36586	5350	607	0	21.9
Feb 2022	997	606	839	18060	20502	18542	39044	100	58	112	270	18060	18542	36872	1500	552	0	21.7
Mar 2022	1,016	603	844	18409	20872	18414	39286	116	56	116	288	18409	18414	37111	1500	877	0	21.3
Apr 2022	1,003	590	824	18742	21160	18584	39744	99	44	90	233	18742	18584	37559	1500	979	0	20.7
May 2022	974	588	798	19038	21398	18922	40320	64	37	46	148	19038	18922	38108	1500	958	0	20.5
Jun 2022	968	537	743	18998	21247	19293	40539	52	-26	-42	-17	18998	19293	38274	1500	931	0	20.1
Jul 2022	905	522	797	19074	21297	19631	40929	-24	-47	-38	-109	19074	19631	38597	1500	853	0	19.3
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2022	941	560	888	19539	21928	19823	41751	941	560	888	2390	19539	19823	41751	1500	810	0	18.5
Sep 2022	1,016	600	976	20026	22618	19880	42497	1016	600	976	2592	20026	19880	42497	2270	709	0	17.9
Oct 2022	1,084	646	1,027	20301	23058	20014	43072	1084	646	1027	2757	20301	20014	43072	3040	532	0	17.4
Nov 2022	1,109	689	1,064	20441	23303	20078	43381	1109	689	1064	2862	20441	20078	43381	3810	654	0	17.1
Dec 2022	1,119	677	1,075	20583	23454	20204	43658	1119	677	1075	2871	20583	20204	43658	4580	547	0	17.1
Jan 2023	1,140	666	1,073	20831	23710	20131	43841	1140	666	1073	2879	20831	20131	43841	5350	625	0	16.9
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2023	1,140	666	1,073	20831	23710	20131	43841	272	238	302	812	20831	20131	41774	5350	625	0	16.9
Feb 2023	1,153	657	1,074	21154	24038	20039	44077	282	228	303	813	21154	20039	42006	1500	558	0	16.8
Mar 2023	1,160	647	1,066	21370	24244	19963	44207	287	217	295	799	21370	19963	42132	1500	879	0	16.5
Apr 2023	1,144	630	1,025	21505	24305	20166	44471	266	200	247	713	21505	20166	42384	1500	983	0	16.3
May 2023	1,105	611	982	21477	24175	20540	44716	221	176	182	579	21477	20540	42596	1500	967	0	16.9
Jun 2023	1,064	527	896	20766	23253	20948	44202	172	77	59	308	20766	20948	42022	1500	917	0	17.4
Jul 2023	899	435	876	20118	22328	21318	43646	-6	-29	-16	-51	20118	21318	41385	1500	826	0	16.8
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2023	919	456	950	20354	22679	21523	44201	919	456	950	2325	20354	21523	44201	1500	793	0	16.2
Sep 2023	992	487	1,018	20658	23155	21621	44775	992	487	1018	2496	20658	21621	44775	2270	703	0	15.7
Oct 2023	1,071	528	1,053	20799	23452	21797	45249	1071	528	1053	2653	20799	21797	45249	3040	535	0	15.4
Nov 2023	1,093	564	1,051	20826	23532	21849	45381	1093	564	1051	2707	20826	21849	45381	3810	663	0	15.2

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