



To: All Annual Operating Plan Recipients

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The operation of Lake Powell and Lake Mead in this October 2021 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2021 Annual Operating Plan (AOP) and draft 2022 AOP. Pursuant to the Interim Guidelines, the August 2021 24-Month Study projections of the January 1, 2022, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2022.

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

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

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

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

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

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

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

Current runoff projections into Lake Powell are provided by the National Weather Service’s Colorado Basin River Forecast Center and are as follows. The observed unregulated inflow into Lake Powell for the month of September was 0.159 maf or 39 percent of the 30-year average from 1981 to 2010. The October unregulated inflow forecast for Lake Powell is 0.225 maf or 50 percent of the 30-year average from 1991-2020. The observed 2021 April through July unregulated inflow is 1.834 maf or 26 percent of average.<sup>1</sup> The preliminary observed water year 2021 unregulated inflow is 3.502 maf or 32% of average.<sup>1</sup>

In this study, the calendar year 2021 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.076 maf. The calendar year 2021 diversion for the Central Arizona Project (CAP) is projected to be 1.358 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.259 maf for calendar year 2021.

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

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

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

Forecast Point	Observed Inflow (kaf)				Sep %Avg <sup>1</sup>	Inflow Forecast (kaf)		
	Jun	Jul	Aug	Sep		Oct	Nov	Dec
Lake Powell	809	193	292	159	39%	225	285	240
Fontenelle	143	45	35	26	57%	29	30	25
Flaming Gorge	148	48	44	27	53%	32	36	25
Blue Mesa	127	53	45	18.9	50%	24	22	19
Morrow Point	132	54	46	19.2	47%	26	23	20
Crystal	140	60	52	23	49%	30	26	23
Taylor Park	24	11	6.9	3.9	53%	4.5	4	3.6
Vallecito	44	18.8	13.3	7.1	41%	6.5	5	4.5
Navajo	103	24	5.1	-1.85	-99%	18	19	17
Lemon	8.8	3.9	2.5	0.86	21%	1.3	0.9	0.7
McPhee	21	11	8.6	2.5	22%	3	2.8	2.5
Ridgway	26	11.8	7.9	3.8	39%	4.5	4	3.5
Deerlodge	96	8.6	6.8	5	25%	16	22	19
Durango	89	32	22	10.8	35%	12	11	10

<sup>1</sup> This October 2021 24-Month Study includes the Colorado Basin River Forecast Center shift to the 1991-2020 period of record. Values associated with water year 2021 continue to use the 1981-2010 period of record to calculate averages.

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 at:

[https://www.usbr.gov/lc/region/g4000/AOP2022/2022%20AOP\\_2021-08-26\\_Consultation-3.pdf](https://www.usbr.gov/lc/region/g4000/AOP2022/2022%20AOP_2021-08-26_Consultation-3.pdf).

The Interim Guidelines are available online at at:

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

The Colorado River DCPs are available online at 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\\_10\\_ucb.pdf](https://www.usbr.gov/uc/water/crsp/studies/24Month_10_ucb.pdf).

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Fontenelle Reservoir



— BUREAU OF —  
RECLAMATION

	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2020	32	1	0	55	55	6490.95	225
H	Nov 2020	33	1	17	35	52	6487.89	205
I	Dec 2020	27	1	50	1	51	6483.85	180
S	Jan 2021	25	1	48	2	51	6479.03	153
T	Feb 2021	24	0	46	0	46	6474.49	132
O	Mar 2021	40	0	51	0	51	6472.03	121
R	Apr 2021	54	1	49	0	49	6473.03	125
I	May 2021	76	1	49	0	49	6478.67	152
C	Jun 2021	143	2	42	0	42	6494.76	251
A	Jul 2021	45	2	43	0	43	6494.70	250
L	Aug 2021	35	2	41	0	41	6493.52	242
*	Sep 2021	26	2	36	0	36	6491.82	230
<b>WY 2021</b>		<b>561</b>	<b>14</b>	<b>471</b>	<b>94</b>	<b>566</b>		
	Oct 2021	29	1	25	12	37	6490.50	230
	Nov 2021	30	1	49	0	49	6487.50	211
	Dec 2021	25	1	51	0	51	6483.22	184
	Jan 2022	22	1	51	0	51	6477.88	155
	Feb 2022	21	0	46	0	46	6472.61	130
	Mar 2022	37	0	51	0	51	6469.35	116
	Apr 2022	65	1	56	0	56	6471.42	124
	May 2022	110	1	85	0	85	6476.44	148
	Jun 2022	250	2	101	3	104	6499.16	292
	Jul 2022	150	3	102	3	105	6504.70	334
	Aug 2022	54	2	76	0	76	6501.55	310
	Sep 2022	37	2	37	23	60	6498.28	285
<b>WY 2022</b>		<b>830</b>	<b>14</b>	<b>728</b>	<b>41</b>	<b>770</b>		
	Oct 2022	43	1	61	0	61	6495.60	266
	Nov 2022	42	1	65	0	65	6492.12	241
	Dec 2022	32	1	68	0	68	6486.58	205
	Jan 2023	30	1	68	0	68	6480.15	167
	Feb 2023	28	0	61	0	61	6473.33	133
	Mar 2023	50	0	68	0	68	6469.23	115
	Apr 2023	77	1	75	0	75	6469.66	117
	May 2023	167	1	91	0	91	6484.41	191
	Jun 2023	303	2	103	95	198	6499.43	294
	Jul 2023	147	3	102	7	109	6504.02	329
	Aug 2023	58	2	74	0	74	6501.76	312
	Sep 2023	38	2	65	0	65	6497.92	283
<b>WY 2023</b>		<b>1015</b>	<b>15</b>	<b>901</b>	<b>102</b>	<b>1003</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Flaming Gorge Reservoir



— BUREAU OF —  
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Oct 2020	25	50	7	64	0	64	128	6025.38	3174	85
H	Nov 2020	37	55	4	54	0	54	128	6025.33	3172	82
I	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
S	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
T	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
O	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
R	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
I	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
C	Jun 2021	148	46	10	80	0	80	125	6023.52	3106	205
A	Jul 2021	48	43	12	65	0	65	124	6022.61	3073	80
L	Aug 2021	44	50	12	98	0	98	121	6021.02	3016	111
*	Sep 2021	27	37	10	96	0	96	119	6019.15	2950	107
<b>WY 2021</b>		<b>650</b>	<b>657</b>	<b>77</b>	<b>835</b>	<b>0</b>	<b>835</b>				<b>1430</b>
	Oct 2021	32	40	7	76	0	76	117	6017.96	2908	92
	Nov 2021	36	55	3	51	0	51	117	6017.99	2909	73
	Dec 2021	25	51	2	52	0	52	117	6017.91	2906	71
	Jan 2022	27	56	2	52	0	52	117	6017.96	2908	71
	Feb 2022	31	56	2	47	0	47	117	6018.14	2915	67
	Mar 2022	77	91	3	52	0	52	119	6019.12	2949	107
	Apr 2022	107	98	5	51	0	51	120	6020.28	2990	231
	May 2022	155	130	7	60	0	60	123	6021.99	3051	545
	Jun 2022	295	149	10	117	0	117	124	6022.58	3072	492
	Jul 2022	175	130	13	62	0	62	126	6024.03	3124	132
	Aug 2022	64	86	12	91	0	91	125	6023.59	3109	107
	Sep 2022	46	69	11	89	0	89	124	6022.77	3079	102
<b>WY 2022</b>		<b>1070</b>	<b>1010</b>	<b>75</b>	<b>800</b>	<b>0</b>	<b>800</b>				<b>2090</b>
	Oct 2022	55	73	7	57	0	57	124	6023.00	3087	83
	Nov 2022	50	74	3	59	0	59	125	6023.32	3099	88
	Dec 2022	33	69	2	92	0	92	124	6022.65	3074	117
	Jan 2023	40	78	2	92	0	92	123	6022.22	3059	117
	Feb 2023	41	75	2	83	0	83	123	6021.94	3049	108
	Mar 2023	87	104	3	53	0	53	125	6023.22	3095	127
	Apr 2023	113	110	5	51	0	51	127	6024.65	3147	254
	May 2023	244	168	8	129	0	129	128	6025.48	3178	642
	Jun 2023	392	287	10	167	0	167	132	6028.28	3283	534
	Jul 2023	160	122	14	67	0	67	134	6029.31	3322	121
	Aug 2023	65	81	13	104	0	104	132	6028.41	3288	122
	Sep 2023	42	69	11	102	0	102	131	6027.31	3247	114
<b>WY 2023</b>		<b>1322</b>	<b>1309</b>	<b>78</b>	<b>1056</b>	<b>0</b>	<b>1056</b>				<b>2428</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



— BUREAU OF —  
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Oct 2020	4	5	9308.95	68
H Nov 2020	4	5	9308.44	67
I Dec 2020	4	5	9307.73	66
S Jan 2021	4	5	9306.89	65
T Feb 2021	3	5	9305.99	64
O Mar 2021	4	5	9304.90	62
R Apr 2021	7	5	9305.94	64
I May 2021	16	10	9310.13	70
C Jun 2021	24	16	9314.87	78
A Jul 2021	11	16	9311.57	72
L Aug 2021	7	15	9306.36	64
* Sep 2021	4	10	9302.48	59
<hr/>				
<b>WY 2021</b>	<b>92</b>	<b>102</b>		
<hr/>				
Oct 2021	5	5	9302.40	58
Nov 2021	4	5	9302.04	58
Dec 2021	4	5	9301.33	57
Jan 2022	3	5	9300.31	56
Feb 2022	3	4	9299.20	54
Mar 2022	3	5	9297.99	52
Apr 2022	6	5	9298.75	53
May 2022	25	10	9309.10	68
Jun 2022	37	15	9321.92	90
Jul 2022	14	19	9319.19	85
Aug 2022	8	16	9314.61	77
Sep 2022	6	13	9310.36	70
<hr/>				
<b>WY 2022</b>	<b>117</b>	<b>105</b>		
<hr/>				
Oct 2022	6	6	9310.38	70
Nov 2022	5	5	9310.09	70
Dec 2022	4	5	9309.58	69
Jan 2023	5	5	9309.23	69
Feb 2023	4	5	9308.69	68
Mar 2023	5	5	9308.30	67
Apr 2023	9	9	9308.36	67
May 2023	26	15	9315.18	78
Jun 2023	40	18	9327.16	101
Jul 2023	15	23	9322.94	92
Aug 2023	8	18	9317.59	83
Sep 2023	7	17	9311.67	73
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<b>WY 2023</b>	<b>134</b>	<b>132</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Blue Mesa Reservoir



— BUREAU OF —  
RECLAMATION

	Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2020	20	22	0	66	0	66	7463.47	389
H	Nov 2020	25	25	0	18	0	18	7464.59	396
I	Dec 2020	21	22	0	21	0	21	7464.73	397
S	Jan 2021	22	23	0	19	0	19	7465.24	400
T	Feb 2021	20	22	0	21	0	21	7465.37	401
O	Mar 2021	29	30	0	32	0	32	7465.07	399
R	Apr 2021	47	46	1	79	0	79	7459.68	365
I	May 2021	90	83	1	96	2	98	7457.14	350
C	Jun 2021	127	119	1	77	0	77	7463.84	391
A	Jul 2021	53	58	1	98	0	98	7457.21	350
L	Aug 2021	45	53	1	93	0	93	7450.20	310
*	Sep 2021	19	25	1	94	0	94	7436.58	241
<b>WY 2021</b>		<b>518</b>	<b>528</b>	<b>6</b>	<b>713</b>	<b>2</b>	<b>715</b>		
	Oct 2021	24	24	0	61	0	61	7428.33	204
	Nov 2021	22	23	0	15	0	15	7429.93	211
	Dec 2021	19	20	0	16	0	16	7430.80	215
	Jan 2022	18	19	0	16	0	16	7431.54	218
	Feb 2022	17	19	0	14	0	14	7432.49	222
	Mar 2022	27	29	0	17	0	17	7435.01	234
	Apr 2022	52	51	0	40	0	40	7437.19	244
	May 2022	188	173	1	166	0	166	7438.47	250
	Jun 2022	230	208	1	61	0	61	7464.68	396
	Jul 2022	80	85	1	71	0	71	7466.62	409
	Aug 2022	49	57	1	77	0	77	7463.35	388
	Sep 2022	34	41	1	74	0	74	7457.80	354
<b>WY 2022</b>		<b>760</b>	<b>748</b>	<b>6</b>	<b>630</b>	<b>0</b>	<b>630</b>		
	Oct 2022	35	35	0	71	0	71	7451.57	318
	Nov 2022	30	31	0	15	0	15	7454.32	334
	Dec 2022	26	27	0	16	0	16	7456.27	345
	Jan 2023	25	26	0	16	0	16	7457.89	354
	Feb 2023	23	24	0	14	0	14	7459.55	364
	Mar 2023	38	38	0	18	0	18	7462.81	385
	Apr 2023	78	78	1	39	0	39	7468.83	424
	May 2023	203	192	1	166	0	166	7472.54	449
	Jun 2023	250	228	1	61	0	61	7494.66	615
	Jul 2023	86	95	1	75	0	75	7496.89	633
	Aug 2023	56	65	1	79	0	79	7495.05	618
	Sep 2023	35	45	1	74	0	74	7491.32	588
<b>WY 2023</b>		<b>887</b>	<b>885</b>	<b>8</b>	<b>643</b>	<b>0</b>	<b>643</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Morrow Point Reservoir



— BUREAU OF —  
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2020	21	66	1	67	66	0	66	7151.06	110
H	Nov 2020	27	18	2	20	23	0	23	7147.26	107
I	Dec 2020	24	21	3	24	23	0	23	7148.38	108
S	Jan 2021	23	19	1	21	23	0	23	7145.78	106
T	Feb 2021	21	21	1	22	21	0	21	7146.38	106
O	Mar 2021	30	32	1	33	35	0	35	7143.99	104
R	Apr 2021	49	79	1	81	82	0	82	7141.50	103
I	May 2021	93	98	4	102	91	0	91	7155.08	113
C	Jun 2021	132	77	4	81	85	0	85	7150.02	109
A	Jul 2021	54	98	1	99	97	0	97	7152.51	111
L	Aug 2021	46	93	1	93	94	0	94	7150.92	110
*	Sep 2021	19	94	0	94	93	0	93	7152.50	111
<b>WY 2021</b>		<b>539</b>	<b>715</b>	<b>21</b>	<b>736</b>	<b>734</b>	<b>0</b>	<b>734</b>		
	Oct 2021	26	61	2	63	62	0	62	7153.73	112
	Nov 2021	23	15	1	16	16	0	16	7153.73	112
	Dec 2021	20	16	1	17	17	0	17	7153.73	112
	Jan 2022	19	16	1	17	17	0	17	7153.73	112
	Feb 2022	18	14	1	15	15	0	15	7153.73	112
	Mar 2022	31	17	4	21	21	0	21	7153.73	112
	Apr 2022	60	40	8	48	48	0	48	7153.73	112
	May 2022	210	166	22	188	188	0	188	7153.73	112
	Jun 2022	245	61	15	76	76	0	76	7153.72	112
	Jul 2022	85	71	5	76	76	0	76	7153.73	112
	Aug 2022	52	77	3	80	80	0	80	7153.73	112
	Sep 2022	36	74	2	76	76	0	76	7153.73	112
<b>WY 2022</b>		<b>825</b>	<b>630</b>	<b>65</b>	<b>695</b>	<b>693</b>	<b>0</b>	<b>693</b>		
	Oct 2022	37	71	2	73	73	0	73	7153.73	112
	Nov 2022	32	15	1	17	17	0	17	7153.73	112
	Dec 2022	27	16	1	17	17	0	17	7153.73	112
	Jan 2023	26	16	1	17	17	0	17	7153.73	112
	Feb 2023	25	14	1	15	15	0	15	7153.73	112
	Mar 2023	40	18	2	20	20	0	20	7153.73	112
	Apr 2023	89	39	11	49	49	0	49	7153.73	112
	May 2023	226	166	23	188	188	0	188	7153.73	112
	Jun 2023	265	61	15	76	76	0	76	7153.72	112
	Jul 2023	90	75	4	79	79	0	79	7153.73	112
	Aug 2023	56	79	0	80	80	0	80	7153.73	112
	Sep 2023	36	74	1	75	75	0	75	7153.73	112
<b>WY 2023</b>		<b>950</b>	<b>643</b>	<b>63</b>	<b>706</b>	<b>705</b>	<b>0</b>	<b>705</b>		

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*  
Crystal Reservoir



— BUREAU OF —  
RECLAMATION



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Oct 2020	23	66	2	68	49	19	67	6751.39	16	42	25
H	Nov 2020	29	23	2	25	25	0	25	6751.22	16	0	24
I	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
S	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
T	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
O	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
R	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
I	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
C	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
A	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
L	Aug 2021	52	94	6	100	100	0	100	6751.69	17	65	38
*	Sep 2021	23	93	3	96	95	0	96	6752.92	17	61	36
<b>WY 2021</b>		<b>591</b>	<b>734</b>	<b>52</b>	<b>785</b>	<b>762</b>	<b>22</b>	<b>784</b>			<b>423</b>	<b>365</b>
	Oct 2021	30	62	4	66	56	10	66	6753.04	17	30	36
	Nov 2021	26	16	3	19	19	0	19	6753.04	17	0	19
	Dec 2021	23	17	3	20	20	0	20	6753.04	17	0	20
	Jan 2022	22	17	3	20	20	0	20	6753.04	17	0	20
	Feb 2022	21	15	3	18	18	0	18	6753.04	17	0	18
	Mar 2022	35	21	4	25	25	0	25	6753.04	17	5	20
	Apr 2022	70	48	10	58	43	15	58	6753.04	17	42	16
	May 2022	235	188	25	213	134	79	213	6753.04	17	62	151
	Jun 2022	270	76	25	101	100	0	100	6753.03	17	61	39
	Jul 2022	95	76	10	86	86	0	86	6753.04	17	65	21
	Aug 2022	58	80	6	86	86	0	86	6753.04	17	65	21
	Sep 2022	40	76	4	80	80	0	80	6753.04	17	55	25
<b>WY 2022</b>		<b>925</b>	<b>693</b>	<b>100</b>	<b>793</b>	<b>688</b>	<b>104</b>	<b>792</b>			<b>385</b>	<b>407</b>
	Oct 2022	42	73	5	77	52	25	77	6753.04	17	55	22
	Nov 2022	36	17	4	21	21	0	21	6753.04	17	0	21
	Dec 2022	32	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2023	31	17	4	22	22	0	22	6753.04	17	0	22
	Feb 2023	29	15	4	19	19	0	19	6753.04	17	0	19
	Mar 2023	46	20	7	26	26	0	26	6753.04	17	5	21
	Apr 2023	100	49	11	60	60	0	60	6753.04	17	42	18
	May 2023	251	188	25	214	134	80	214	6753.04	17	62	152
	Jun 2023	293	76	28	104	104	0	104	6753.03	17	61	43
	Jul 2023	98	79	8	86	86	0	86	6753.04	17	65	21
	Aug 2023	63	80	7	86	86	0	86	6753.04	17	65	21
	Sep 2023	42	75	5	80	80	0	80	6753.04	17	55	25
<b>WY 2023</b>		<b>1062</b>	<b>705</b>	<b>112</b>	<b>817</b>	<b>712</b>	<b>105</b>	<b>817</b>			<b>410</b>	<b>407</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most 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 2020	3	2	7620.99	30
H Nov 2020	3	0	7623.08	33
I Dec 2020	3	0	7624.62	36
S Jan 2021	3	0	7626.24	38
T Feb 2021	3	0	7627.63	41
O Mar 2021	4	0	7629.73	44
R Apr 2021	14	1	7636.28	57
I May 2021	50	30	7645.56	77
C Jun 2021	44	39	7647.63	81
A Jul 2021	19	36	7639.49	63
L Aug 2021	13	34	7628.72	43
* Sep 2021	7	26	7615.74	24
<hr/>				
<b>WY 2021</b>	<b>166</b>	<b>169</b>		
<hr/>				
Oct 2021	7	16	7606.82	15
Nov 2021	5	2	7610.17	18
Dec 2021	5	2	7612.67	20
Jan 2022	4	2	7614.56	23
Feb 2022	4	2	7616.07	24
Mar 2022	6	2	7618.92	28
Apr 2022	16	2	7628.24	42
May 2022	59	31	7642.33	70
Jun 2022	65	43	7651.70	91
Jul 2022	19	42	7641.73	68
Aug 2022	12	38	7628.32	42
Sep 2022	10	30	7614.26	22
<hr/>				
<b>WY 2022</b>	<b>210</b>	<b>209</b>		
<hr/>				
Oct 2022	10	17	7606.87	15
Nov 2022	8	2	7612.87	21
Dec 2022	7	2	7617.02	25
Jan 2023	6	2	7620.14	30
Feb 2023	5	2	7622.76	33
Mar 2023	10	2	7627.67	41
Apr 2023	23	2	7639.01	62
May 2023	68	31	7654.78	99
Jun 2023	62	43	7661.87	117
Jul 2023	21	42	7653.76	96
Aug 2023	15	38	7644.17	74
Sep 2023	16	30	7637.57	59
<hr/>				
<b>WY 2023</b>	<b>251</b>	<b>211</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Navajo Reservoir



— BUREAU OF —  
RECLAMATION

	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
*	Oct 2020	6	0	6	1	9	42	6039.09	1103	42
H	Nov 2020	17	0	14	1	0	22	6038.29	1094	37
I	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
S	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
T	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
O	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
R	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
I	May 2021	169	25	125	3	34	27	6039.27	1105	65
C	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
A	Jul 2021	24	2	40	4	45	35	6035.96	1070	57
L	Aug 2021	5	1	24	3	39	41	6030.18	1010	48
*	Sep 2021	-2	0	17	2	25	50	6024.10	951	49
<b>WY 2021</b>		<b>463</b>	<b>60</b>	<b>407</b>	<b>23</b>	<b>222</b>	<b>361</b>			<b>549</b>
	Oct 2021	18	0	27	1	9	29	6022.81	892	41
	Nov 2021	19	0	16	1	0	31	6021.08	876	42
	Dec 2021	17	0	14	0	0	32	6019.11	858	42
	Jan 2022	17	0	15	0	0	20	6018.47	853	29
	Feb 2022	20	0	18	1	0	17	6018.56	853	24
	Mar 2022	47	2	42	1	5	19	6020.40	870	31
	Apr 2022	103	10	78	2	21	18	6024.56	908	50
	May 2022	215	27	160	3	35	18	6035.20	1011	135
	Jun 2022	170	21	127	3	51	18	6040.48	1066	152
	Jul 2022	30	1	51	4	56	22	6037.65	1036	72
	Aug 2022	23	1	48	3	47	29	6034.66	1006	58
	Sep 2022	26	1	45	2	26	26	6033.80	997	48
<b>WY 2022</b>		<b>705</b>	<b>63</b>	<b>641</b>	<b>21</b>	<b>250</b>	<b>277</b>			<b>722</b>
	Oct 2022	31	1	38	1	9	20	6034.54	1004	40
	Nov 2022	29	0	23	1	0	18	6034.94	1008	35
	Dec 2022	24	0	19	1	0	18	6034.92	1008	33
	Jan 2023	22	0	17	1	0	18	6034.78	1007	32
	Feb 2023	29	0	25	1	0	17	6035.51	1014	29
	Mar 2023	92	9	76	1	5	18	6040.42	1065	41
	Apr 2023	147	17	108	2	21	18	6046.62	1133	69
	May 2023	252	33	182	3	35	18	6057.20	1257	153
	Jun 2023	187	23	145	4	51	18	6062.84	1329	162
	Jul 2023	32	2	51	4	56	21	6060.49	1299	72
	Aug 2023	23	1	45	4	47	28	6057.81	1265	57
	Sep 2023	31	1	44	3	26	22	6057.26	1258	49
<b>WY 2023</b>		<b>899</b>	<b>87</b>	<b>772</b>	<b>25</b>	<b>250</b>	<b>235</b>			<b>771</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Lake Powell



— BUREAU OF —  
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Oct 2020	92	246	31	640	0	640	3591.72	4932	10977	667
H	Nov 2020	261	279	29	640	0	640	3587.72	4903	10615	650
I	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
S	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
T	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
O	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
R	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
I	May 2021	543	495	20	624	0	624	3560.57	4723	8366	649
C	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	663
A	Jul 2021	193	305	36	767	0	767	3553.88	4683	7866	764
L	Aug 2021	292	452	35	801	0	801	3548.96	4655	7511	785
*	Sep 2021	159	380	31	622	0	622	3545.36	4634	7258	626
<b>WY 2021</b>		<b>3502</b>	<b>4064</b>	<b>277</b>	<b>8229</b>	<b>0</b>	<b>8229</b>				<b>8280</b>
	Oct 2021	225	325	21	480	0	480	3543.00	4621	7095	492
	Nov 2021	285	305	20	500	0	500	3540.07	4605	6896	503
	Dec 2021	240	279	16	600	0	600	3535.36	4580	6584	603
	Jan 2022	255	281	4	723	0	723	3528.93	4547	6171	732
	Feb 2022	275	285	4	639	0	639	3523.57	4521	5839	650
	Mar 2022	395	339	7	675	0	675	3518.26	4495	5521	691
	Apr 2022	620	498	11	601	0	601	3516.45	4487	5415	619
	May 2022	1650	1399	14	599	0	599	3528.49	4545	6143	618
	Jun 2022	2150	1722	25	628	0	628	3543.56	4624	7133	647
	Jul 2022	750	677	32	709	0	709	3542.69	4620	7074	732
	Aug 2022	290	398	31	758	0	758	3537.31	4591	6712	782
	Sep 2022	265	374	28	568	0	568	3534.18	4574	6506	585
<b>WY 2022</b>		<b>7400</b>	<b>6882</b>	<b>214</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7655</b>
	Oct 2022	375	412	19	480	0	480	3532.93	4568	6426	492
	Nov 2022	423	406	19	500	0	500	3531.30	4559	6321	503
	Dec 2022	352	395	15	600	0	600	3528.08	4543	6118	603
	Jan 2023	347	387	4	760	0	760	3522.40	4515	5769	769
	Feb 2023	396	416	4	670	0	670	3518.40	4496	5530	681
	Mar 2023	613	499	7	710	0	710	3514.94	4480	5328	726
	Apr 2023	935	742	11	630	0	630	3516.56	4487	5422	648
	May 2023	2114	1797	14	638	0	638	3533.79	4572	6481	657
	Jun 2023	2478	1970	26	670	0	670	3551.05	4667	7661	689
	Jul 2023	709	651	34	760	0	760	3549.20	4656	7528	783
	Aug 2023	361	475	33	800	0	800	3544.48	4629	7197	824
	Sep 2023	312	428	30	600	0	600	3541.76	4614	7010	617
<b>WY 2023</b>		<b>9415</b>	<b>8578</b>	<b>216</b>	<b>7818</b>	<b>0</b>	<b>7818</b>				<b>7993</b>

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



— BUREAU OF —  
RECLAMATION

	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Oct 2020	730	-12	15	725	0	725	11.8	635.65	1503
H	Nov 2020	714	-34	11	560	0	560	9.4	639.83	1613
I	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
S	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
T	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
O	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
R	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
I	May 2021	1086	-10	22	1055	0	1055	17.2	642.32	1680
C	Jun 2021	956	-2	25	901	0	901	15.1	643.33	1708
A	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
L	Aug 2021	766	-6	23	731	0	731	11.9	643.54	1713
*	Sep 2021	616	10	18	756	0	756	12.7	638.04	1565
<b>WY 2021</b>		<b>9396</b>	<b>-118</b>	<b>198</b>	<b>9040</b>	<b>0</b>	<b>9040</b>			
	Oct 2021	569	-11	15	649	0	649	10.6	634.00	1460
	Nov 2021	705	-23	10	567	0	567	9.5	638.00	1564
	Dec 2021	465	-11	9	405	0	405	6.6	639.51	1604
	Jan 2022	524	-17	10	436	0	436	7.1	641.80	1666
	Feb 2022	539	-9	10	520	0	520	9.4	641.80	1666
	Mar 2022	902	-7	13	848	0	848	13.8	643.05	1700
	Apr 2022	985	-8	17	962	0	962	16.2	643.00	1699
	May 2022	954	-8	22	924	0	924	15.0	643.00	1699
	Jun 2022	913	-13	25	875	0	875	14.7	643.00	1699
	Jul 2022	806	-10	25	798	0	798	13.0	642.00	1671
	Aug 2022	774	-11	23	740	0	740	12.0	642.00	1671
	Sep 2022	689	-11	18	714	0	714	12.0	640.01	1617
<b>WY 2022</b>		<b>8826</b>	<b>-138</b>	<b>197</b>	<b>8438</b>	<b>0</b>	<b>8438</b>			
	Oct 2022	543	-11	15	700	0	700	11.4	633.00	1434
	Nov 2022	659	-23	10	575	0	575	9.7	635.00	1486
	Dec 2022	555	-11	9	417	0	417	6.8	639.51	1604
	Jan 2023	524	-17	10	436	0	436	7.1	641.80	1666
	Feb 2023	546	-9	10	527	0	527	9.5	641.80	1666
	Mar 2023	897	-7	13	843	0	843	13.7	643.05	1700
	Apr 2023	981	-8	17	958	0	958	16.1	643.00	1699
	May 2023	956	-8	22	926	0	926	15.1	643.00	1699
	Jun 2023	920	-13	25	882	0	882	14.8	643.00	1699
	Jul 2023	815	-10	25	807	0	807	13.1	642.00	1671
	Aug 2023	784	-11	23	750	0	750	12.2	642.00	1671
	Sep 2023	693	-11	18	717	0	717	12.1	640.01	1617
<b>WY 2023</b>		<b>8874</b>	<b>-138</b>	<b>197</b>	<b>8538</b>	<b>0</b>	<b>8538</b>			

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



— BUREAU OF —  
RECLAMATION

	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Oct 2020	725	21	12	448	7.3	94	164	447.77	576	66	1.1
H	Nov 2020	560	20	9	357	6.0	92	123	447.50	571	92	1.5
I	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
S	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
T	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
O	Mar 2021	920	1	9	663	10.8	99	149	447.28	566	179	2.9
R	Apr 2021	1028	0	11	728	12.2	102	163	448.04	581	167	2.8
I	May 2021	1055	-2	13	746	12.1	107	168	448.51	590	145	2.4
C	Jun 2021	901	21	15	706	11.9	103	87	448.55	591	151	2.5
A	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	147	2.4
L	Aug 2021	731	16	17	586	9.5	100	48	447.51	571	121	2.0
*	Sep 2021	756	6	15	516	8.7	97	106	448.49	590	112	1.9
<b>WY 2021</b>		<b>9040</b>	<b>117</b>	<b>140</b>	<b>6393</b>		<b>1065</b>	<b>1441</b>			<b>1515</b>	
	Oct 2021	649	21	12	442	7.2	99	130	447.50	571	64	1.0
	Nov 2021	567	18	9	348	5.9	95	129	447.50	570	91	1.5
	Dec 2021	405	20	7	243	3.9	98	92	446.50	552	90	1.5
	Jan 2022	436	17	6	302	4.9	99	41	446.50	552	138	2.2
	Feb 2022	520	7	8	397	7.2	3	113	446.50	552	124	2.2
	Mar 2022	848	7	9	613	10.0	99	121	446.70	555	147	2.4
	Apr 2022	962	11	11	700	11.8	96	117	448.70	593	147	2.5
	May 2022	924	9	13	682	11.1	99	126	448.70	593	110	1.8
	Jun 2022	875	6	16	688	11.6	96	68	448.70	593	116	2.0
	Jul 2022	798	15	17	663	10.8	99	35	448.00	580	123	2.0
	Aug 2022	740	15	17	602	9.8	99	35	447.50	571	101	1.6
	Sep 2022	714	14	15	510	8.6	96	95	447.50	570	99	1.7
<b>WY 2022</b>		<b>8438</b>	<b>161</b>	<b>139</b>	<b>6190</b>		<b>1081</b>	<b>1102</b>			<b>1351</b>	
	Oct 2022	700	21	12	480	7.8	106	117	447.50	571	89	1.4
	Nov 2022	575	18	9	364	6.1	100	114	447.50	571	115	1.9
	Dec 2022	417	20	7	257	4.2	106	82	446.50	552	110	1.8
	Jan 2023	436	17	6	310	5.0	87	45	446.50	552	138	2.2
	Feb 2023	527	7	8	401	7.2	4	115	446.50	552	124	2.2
	Mar 2023	843	7	9	619	10.1	87	123	446.70	555	147	2.4
	Apr 2023	958	11	11	706	11.9	84	120	448.70	593	147	2.5
	May 2023	926	9	13	694	11.3	87	128	448.70	593	110	1.8
	Jun 2023	882	6	16	704	11.8	84	71	448.70	593	116	2.0
	Jul 2023	807	15	17	680	11.1	87	39	448.00	580	123	2.0
	Aug 2023	750	15	17	620	10.1	87	39	447.50	571	101	1.6
	Sep 2023	717	14	15	524	8.8	84	98	447.50	570	99	1.7
<b>WY 2023</b>		<b>8538</b>	<b>161</b>	<b>139</b>	<b>6359</b>		<b>1005</b>	<b>1090</b>			<b>1419</b>	

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



— BUREAU OF —  
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2020	730	11.9	1081.88	10167	-111	439.76	1154.0	284.7	74	390.2
H	Nov 2020	714	12.0	1081.07	10100	-68	437.77	1303.0	275.5	85	385.6
I	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
S	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
T	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
O	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
R	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
I	May 2021	1086	17.7	1073.50	9480	-473	423.99	1042.9	433.7	69	399.5
C	Jun 2021	956	16.1	1068.77	9102	-378	419.04	1451.0	366.8	100	383.7
A	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
L	Aug 2021	766	12.5	1067.96	9038	24	421.53	1322.1	286.1	93	373.4
*	Sep 2021	616	10.4	1067.68	9016	-22	425.37	1228.0	232.0	87	376.5
<b>WY 2021</b>		<b>9396</b>							<b>3643.8</b>		
	Oct 2021	569	9.3	1066.48	8922	-94	419.35	1228.0	211.1	87	370.8
	Nov 2021	705	11.8	1064.17	8743	-179	417.70	1246.0	263.9	89	374.5
	Dec 2021	465	7.6	1066.06	8890	147	418.04	949.4	174.3	67	374.9
	Jan 2022	524	8.5	1069.10	9128	239	419.19	968.0	193.6	68	369.3
	Feb 2022	539	9.7	1071.01	9280	152	421.63	870.0	204.7	61	379.6
	Mar 2022	902	14.7	1069.10	9128	-152	420.51	964.9	346.6	67	384.3
	Apr 2022	985	16.5	1064.83	8793	-335	414.89	1227.1	367.2	88	372.9
	May 2022	954	15.5	1060.34	8449	-344	411.15	1108.1	356.4	82	373.6
	Jun 2022	913	15.3	1056.17	8135	-314	406.96	1066.5	337.3	81	369.2
	Jul 2022	806	13.1	1054.56	8016	-119	402.45	1315.0	292.6	100	362.9
	Aug 2022	774	12.6	1054.14	7985	-31	401.77	1298.0	279.3	100	360.8
	Sep 2022	689	11.6	1052.43	7859	-125	401.36	1298.0	246.2	100	357.2
<b>WY 2022</b>		<b>8826</b>							<b>3273.3</b>		
	Oct 2022	543	8.8	1051.56	7796	-64	402.36	1281.0	191.5	100	353.0
	Nov 2022	659	11.1	1049.73	7663	-132	406.04	933.5	239.5	74	363.3
	Dec 2022	555	9.0	1050.63	7729	65	402.16	1105.6	197.0	86	354.9
	Jan 2023	524	8.5	1054.40	8004	275	402.20	1126.8	184.7	87	352.4
	Feb 2023	546	9.8	1056.76	8179	175	404.52	1137.7	197.1	87	360.7
	Mar 2023	897	14.6	1055.25	8067	-113	406.55	892.0	332.3	67	370.4
	Apr 2023	981	16.5	1051.12	7764	-302	401.23	1131.2	352.5	88	359.3
	May 2023	956	15.6	1046.84	7457	-308	397.66	1030.2	344.3	82	360.0
	Jun 2023	920	15.5	1042.89	7178	-279	393.69	989.9	327.5	81	355.9
	Jul 2023	815	13.3	1041.78	7101	-77	389.56	1211.1	285.5	100	350.2
	Aug 2023	784	12.8	1041.81	7103	2	389.35	1211.4	273.4	100	348.8
	Sep 2023	693	11.6	1040.42	7006	-96	389.32	1199.5	239.6	100	345.6
<b>WY 2023</b>		<b>8874</b>							<b>3164.7</b>		

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



— BUREAU OF —  
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2020	725	11.8	635.65	1503	-22	134.17	215.5	91.1	85	125.5
H	Nov 2020	560	9.4	639.83	1613	110	140.14	168.3	67.8	66	121.2
I	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
S	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
T	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
O	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
R	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
I	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
C	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
A	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
L	Aug 2021	731	11.9	643.54	1713	6	144.21	255.0	93.7	100	128.2
*	Sep 2021	756	12.7	638.04	1565	-148	136.46	255.0	95.1	100	125.8
<b>WY 2021</b>		<b>9040</b>							<b>1141.6</b>		
	Oct 2021	649	10.6	634.00	1460	-105	133.94	212.2	78.3	83	120.7
	Nov 2021	567	9.5	638.00	1564	104	134.34	164.9	68.7	65	121.0
	Dec 2021	405	6.6	639.51	1604	40	138.40	187.6	50.5	74	124.7
	Jan 2022	436	7.1	641.80	1666	62	140.07	159.6	55.0	63	126.2
	Feb 2022	520	9.4	641.80	1666	0	140.21	176.7	65.7	69	126.3
	Mar 2022	848	13.8	643.05	1700	34	139.11	255.0	106.3	100	125.3
	Apr 2022	962	16.2	643.00	1699	-2	138.88	255.0	120.3	100	125.1
	May 2022	924	15.0	643.00	1699	0	139.24	255.0	115.9	100	125.4
	Jun 2022	875	14.7	643.00	1699	0	139.36	255.0	109.8	100	125.6
	Jul 2022	798	13.0	642.00	1671	-27	139.48	255.0	100.3	100	125.7
	Aug 2022	740	12.0	642.00	1671	0	139.33	255.0	92.9	100	125.5
	Sep 2022	714	12.0	640.01	1617	-54	138.35	255.0	89.0	100	124.6
<b>WY 2022</b>		<b>8438</b>							<b>1052.7</b>		
	Oct 2022	700	11.4	633.00	1434	-183	134.09	227.0	84.5	89	120.8
	Nov 2022	575	9.7	635.00	1486	51	132.28	159.8	68.5	63	119.2
	Dec 2022	417	6.8	639.51	1604	118	136.80	154.7	51.4	61	123.2
	Jan 2023	436	7.1	641.80	1666	62	140.07	156.3	55.0	61	126.2
	Feb 2023	527	9.5	641.80	1666	0	140.16	156.6	66.6	61	126.3
	Mar 2023	843	13.7	643.05	1700	34	139.13	194.1	105.7	76	125.3
	Apr 2023	958	16.1	643.00	1699	-2	138.90	249.9	119.9	98	125.1
	May 2023	926	15.1	643.00	1699	0	139.23	255.0	116.1	100	125.4
	Jun 2023	882	14.8	643.00	1699	0	139.31	255.0	110.7	100	125.5
	Jul 2023	807	13.1	642.00	1671	-27	139.42	255.0	101.4	100	125.6
	Aug 2023	750	12.2	642.00	1671	0	139.27	255.0	94.1	100	125.5
	Sep 2023	717	12.1	640.01	1617	-54	138.33	255.0	89.4	100	124.6
<b>WY 2023</b>		<b>8538</b>							<b>1063.3</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



— BUREAU OF —  
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2020	448	7.3	447.77	576	22	81.85	90.0	32.2	75	71.8
H	Nov 2020	357	6.0	447.50	571	-5	81.16	90.0	23.9	75	66.9
I	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
S	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
T	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
O	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
R	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
I	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
C	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
A	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
L	Aug 2021	586	9.5	447.51	571	-14	79.33	120.0	40.7	100	69.4
*	Sep 2021	516	8.7	448.49	590	19	80.37	120.0	35.7	100	69.2
<b>WY 2021</b>		<b>6393</b>							<b>442.4</b>		
	Oct 2021	442	7.2	447.50	571	-19	76.53	94.8	29.1	79	65.9
	Nov 2021	348	5.9	447.50	570	0	76.29	90.0	22.6	75	65.0
	Dec 2021	243	3.9	446.50	552	-19	74.82	110.3	15.1	92	62.1
	Jan 2022	302	4.9	446.50	552	0	75.12	93.9	19.1	78	63.5
	Feb 2022	397	7.2	446.50	552	0	75.15	93.2	25.8	78	64.9
	Mar 2022	613	10.0	446.70	555	4	74.01	120.0	39.7	100	64.7
	Apr 2022	700	11.8	448.70	593	38	75.08	120.0	46.1	100	65.8
	May 2022	682	11.1	448.70	593	0	76.05	120.0	45.3	100	66.4
	Jun 2022	688	11.6	448.70	593	0	76.05	120.0	45.7	100	66.5
	Jul 2022	663	10.8	448.00	580	-13	75.71	120.0	43.8	100	66.1
	Aug 2022	602	9.8	447.50	571	-10	75.13	120.0	39.4	100	65.5
	Sep 2022	510	8.6	447.50	570	0	74.89	120.0	33.2	100	65.0
<b>WY 2022</b>		<b>6190</b>							<b>404.9</b>		
	Oct 2022	480	7.8	447.50	571	0	76.09	93.9	31.6	78	65.8
	Nov 2022	364	6.1	447.50	571	0	76.29	90.0	23.7	75	65.2
	Dec 2022	257	4.2	446.50	552	-19	74.77	111.3	16.0	93	62.4
	Jan 2023	310	5.0	446.50	552	0	75.12	93.9	19.7	78	63.6
	Feb 2023	401	7.2	446.50	552	0	75.10	94.3	26.0	79	64.9
	Mar 2023	619	10.1	446.70	555	4	74.01	120.0	40.0	100	64.7
	Apr 2023	706	11.9	448.70	593	38	75.08	120.0	46.5	100	65.8
	May 2023	694	11.3	448.70	593	0	76.05	120.0	46.1	100	66.5
	Jun 2023	704	11.8	448.70	593	0	76.05	120.0	46.8	100	66.5
	Jul 2023	680	11.1	448.00	580	-13	75.71	120.0	45.0	100	66.2
	Aug 2023	620	10.1	447.50	571	-10	75.13	120.0	40.6	100	65.5
	Sep 2023	524	8.8	447.50	570	0	74.89	120.0	34.0	100	65.0
<b>WY 2023</b>		<b>6359</b>							<b>416.2</b>		

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## October 2021 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
*	Oct 2020	277	24	18	22	9	0
H	Nov 2020	275	20	5	7	3	1
I	Dec 2020	304	24	5	7	3	3
S	Jan 2021	319	24	5	6	3	3
T	Feb 2021	278	21	5	6	2	3
O	Mar 2021	285	20	8	11	6	3
	<b>Winter 2021</b>	<b>1738</b>	<b>132</b>	<b>46</b>	<b>60</b>	<b>25</b>	<b>14</b>
R	Apr 2021	254	19	20	28	17	3
I	May 2021	249	36	24	32	20	3
C	Jun 2021	260	30	20	30	19	3
A	Jul 2021	303	24	27	34	20	3
L	Aug 2021	310	37	25	34	20	3
*	Sep 2021	238	36	24	33	19	2
	<b>Summer 2021</b>	<b>1614</b>	<b>182</b>	<b>140</b>	<b>190</b>	<b>114</b>	<b>17</b>
	Oct 2021	177	25	15	22	10	2
	Nov 2021	183	17	4	6	3	3
	Dec 2021	217	17	4	6	3	3
	Jan 2022	259	17	4	6	3	3
	Feb 2022	226	16	3	5	3	3
	Mar 2022	234	17	4	7	4	3
	<b>Winter 2022</b>	<b>1297</b>	<b>110</b>	<b>34</b>	<b>53</b>	<b>27</b>	<b>17</b>
	Apr 2022	207	17	10	17	7	3
	May 2022	209	20	42	68	23	5
	Jun 2022	227	39	16	27	17	7
	Jul 2022	260	21	20	27	15	8
	Aug 2022	276	30	21	29	15	6
	Sep 2022	206	30	20	27	14	3
	<b>Summer 2022</b>	<b>1385</b>	<b>157</b>	<b>128</b>	<b>196</b>	<b>92</b>	<b>31</b>
	Oct 2022	172	19	19	26	9	5
	Nov 2022	178	20	4	6	4	5
	Dec 2022	212	31	4	6	4	5
	Jan 2023	266	31	4	6	4	4
	Feb 2023	233	28	4	6	3	4
	Mar 2023	243	18	5	7	5	4
	<b>Winter 2023</b>	<b>1304</b>	<b>146</b>	<b>40</b>	<b>57</b>	<b>28</b>	<b>25</b>
	Apr 2023	215	17	11	18	10	4
	May 2023	223	43	46	68	23	5
	Jun 2023	244	56	18	27	18	7
	Jul 2023	283	23	22	28	15	8
	Aug 2023	295	35	24	29	15	6
	Sep 2023	220	34	22	27	14	5
	<b>Summer 2023</b>	<b>1260</b>	<b>175</b>	<b>121</b>	<b>170</b>	<b>81</b>	<b>30</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 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	
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Oct 2021	908	588	798	17064	19358	18604	37962	908	588	798	2294	17064	18604	37962	3040	569	0	22.5
Nov 2021	958	626	810	17227	19621	18698	38319	958	626	810	2394	17227	18698	38319	3810	705	0	22.2
Dec 2021	977	619	825	17426	19847	18877	38724	977	619	825	2421	17426	18877	38724	4580	465	0	22.0
Jan 2022	1,006	615	843	17738	20202	18730	38933	1006	615	843	2464	17738	18730	38933	5350	524	0	21.8
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2022	1,006	615	843	17738	20202	18730	38933	426	227	360	1012	17738	18730	37481	5350	524	0	21.8
Feb 2022	1,034	612	849	18151	20645	18492	39137	451	225	365	1041	18151	18492	37684	1500	539	0	21.6
Mar 2022	1,053	607	848	18483	20991	18340	39331	467	222	364	1053	18483	18340	37876	1500	902	0	21.3
Apr 2022	1,032	596	831	18801	21261	18492	39752	443	212	341	995	18801	18492	38287	1500	985	0	21.0
May 2022	983	586	794	18907	21269	18827	40095	386	200	280	866	18907	18827	38600	1500	954	0	21.5
Jun 2022	898	579	690	18179	20347	19171	39518	291	178	139	608	18179	19171	37958	1500	913	0	22.6
Jul 2022	733	433	636	17189	18990	19485	38475	113	9	30	151	17189	19485	36825	1500	806	0	22.5
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2022	638	420	665	17248	18972	19604	38576	638	420	665	1724	17248	19604	38576	1500	774	0	22.0
Sep 2022	678	442	696	17610	19426	19635	39061	678	442	696	1815	17610	19635	39061	2270	689	0	21.5
Oct 2022	733	476	704	17816	19728	19761	39489	733	476	704	1913	17816	19761	39489	3040	543	0	21.1
Nov 2022	744	511	697	17896	19849	19824	39673	744	511	697	1952	17896	19824	39673	3810	659	0	20.9
Dec 2022	757	496	693	18001	19947	19957	39903	757	496	693	1946	18001	19957	39903	4580	555	0	20.8
Jan 2023	818	485	693	18204	20199	19891	40091	818	485	693	1995	18204	19891	40091	5350	524	0	20.8
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2023	818	485	693	18204	20199	19891	40091	434	316	475	1224	18204	19891	39320	5350	524	0	20.8
Feb 2023	871	475	695	18553	20594	19616	40210	485	307	476	1268	18553	19616	39438	1500	546	0	20.7
Mar 2023	915	465	687	18792	20860	19441	40300	527	297	468	1293	18792	19441	39526	1500	897	0	20.5
Apr 2023	887	445	636	18994	20962	19553	40515	494	277	410	1182	18994	19553	39729	1500	981	0	20.5
May 2023	833	406	569	18900	20708	19856	40563	432	238	320	990	18900	19856	39746	1500	956	0	21.5
Jun 2023	727	381	444	17841	19393	20163	39556	317	200	157	674	17841	20163	38678	1500	920	0	22.9
Jul 2023	520	215	372	16661	17769	20442	38211	93	11	30	133	16661	20442	37237	1500	815	0	22.7
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2023	445	197	403	16794	17838	20519	38358	445	197	403	1045	16794	20519	38358	1500	784	0	22.2
Sep 2023	497	212	436	17125	18270	20517	38788	497	212	436	1145	17125	20517	38788	2270	693	0	21.8

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