



To: All Annual Operating Plan Recipients

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The operation of Lake Powell and Lake Mead in this September 2021 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2021 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2020 24-Month Study projections of the January 1, 2021, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2021.

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

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

The August 2021 24-Month study 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 September 2021 24-Month Study includes releases from the upstream initial units of the Colorado River Storage Project Act to deliver an additional 181 thousand acre-feet (kaf) to Lake Powell by the end of December 2021. The additional releases began in July and will continue to be implemented on the following schedule:

	Jul (kaf)	Aug (kaf)	Sep (kaf)	Oct (kaf)	Nov (kaf)	Dec (kaf)	Total (kaf)
Flaming Gorge Reservoir	13	42	43	27	0	0	125
Blue Mesa Reservoir	0	14	18	4	0	0	36
Navajo Reservoir	0	0	0	0	10	10	20
Total (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 releases from Lake Powell to Lake Mead will not be adjusted in water year 2021 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 August was 0.294 maf or 59 percent of the 30-year average from 1981 to 2010. The September unregulated inflow forecast for Lake Powell is 0.200 maf or 49 percent of the 30-year average. The 2021 observed April through July unregulated inflow is 1.850 maf or 26 percent of average.

In this study, the calendar year 2021 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.075 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 0.260 maf for calendar year 2021.

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

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

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

Reservoir	Observed Inflow (kaf)				Aug	Inflow Forecast (kaf)			Observed	
	May	Jun	Jul	Aug	%Avg	Sep	Oct	Nov	Apr-Jul	%Avg
Lake Powell	543	809	209	294	59%	200	290	300	1850	26%
Fontenelle	76	143	45	35	46%	30	32	32	318	44%
Flaming Gorge	96	149	64	45	51%	33	36	37	381	39%
Blue Mesa	90	127	53	46	72%	26	26	22	317	47%
Morrow Point	93	132	54	46	69%	28	28	24	328	44%
Crystal	103	140	60	52	69%	32	32	27	357	43%
Taylor Park	16.1	24	11	6.9	67%	5	4.5	4	58	59%
Vallecito	50	44	18.8	13.3	67%	9.5	9.5	5.5	126	65%
Navajo	169	103	24	5.3	12%	20	25	25	378	51%
Lemon	13.6	8.8	3.9	2.5	50%	1.7	1.7	1	29	53%
McPhee	40	21	11	8.6	54%	7	5	4	84	28%
Ridgway	13.8	26	11.8	8.2	56%	5.5	5.5	4	57	56%
Deerlodge	197	96	8.6	6.8	26%	6	15	22	358	29%
Durango	72	89	32	22	58%	14	15	12	211	51%

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\\_09\\_ucb.pdf](https://www.usbr.gov/uc/water/crsp/studies/24Month_09_ucb.pdf)

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	25	2	26	35	61	6494.55	258
	<b>WY 2020</b>	<b>996</b>	<b>15</b>	<b>856</b>	<b>137</b>	<b>993</b>		
H	Oct 2020	32	1	0	55	55	6490.95	225
I	Nov 2020	33	1	17	35	52	6487.89	205
S	Dec 2020	27	1	50	1	51	6483.85	180
T	Jan 2021	25	1	48	2	51	6479.03	153
O	Feb 2021	24	0	46	0	46	6474.49	132
R	Mar 2021	40	0	51	0	51	6472.03	121
I	Apr 2021	54	1	49	0	49	6473.03	125
C	May 2021	76	1	49	0	49	6478.67	152
A	Jun 2021	143	2	42	0	42	6494.76	251
L	Jul 2021	45	2	43	0	43	6494.70	250
*	Aug 2021	35	2	41	0	41	6493.52	242
	Sep 2021	30	2	36	0	36	6492.46	244
	<b>WY 2021</b>	<b>565</b>	<b>14</b>	<b>471</b>	<b>94</b>	<b>565</b>		
	Oct 2021	32	1	25	12	37	6491.59	238
	Nov 2021	32	1	51	0	51	6488.58	218
	Dec 2021	25	1	53	0	53	6483.98	189
	Jan 2022	22	1	53	0	53	6478.28	157
	Feb 2022	21	0	48	0	48	6472.57	130
	Mar 2022	37	0	53	0	53	6468.71	113
	Apr 2022	64	1	58	0	58	6469.91	118
	May 2022	121	1	85	0	85	6477.34	152
	Jun 2022	265	2	101	21	122	6499.27	293
	Jul 2022	165	3	102	32	134	6502.97	321
	Aug 2022	58	2	74	0	74	6500.62	303
	Sep 2022	43	2	37	28	66	6497.34	278
	<b>WY 2022</b>	<b>885</b>	<b>14</b>	<b>742</b>	<b>94</b>	<b>836</b>		
	Oct 2022	44	1	62	0	62	6494.70	259
	Nov 2022	43	1	65	0	65	6491.38	236
	Dec 2022	33	1	68	0	68	6485.96	201
	Jan 2023	31	1	68	0	68	6479.56	164
	Feb 2023	29	0	61	0	61	6472.83	131
	Mar 2023	53	0	68	0	68	6469.38	116
	Apr 2023	82	1	75	0	75	6471.08	123
	May 2023	169	1	91	0	91	6485.65	199
	Jun 2023	278	2	103	76	180	6499.58	295
	Jul 2023	164	3	102	31	133	6503.24	323
	Aug 2023	71	2	74	0	74	6502.55	318

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	28	64	11	98	0	98	129	6025.93	3195	112
	<b>WY 2020</b>	<b>1255</b>	<b>1251</b>	<b>80</b>	<b>1333</b>	<b>62</b>	<b>1395</b>				<b>2825</b>
H	Oct 2020	25	50	7	64	0	64	128	6025.38	3174	85
I	Nov 2020	37	55	4	54	0	54	128	6025.33	3172	82
S	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
T	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
O	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
R	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
I	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
C	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
A	Jun 2021	149	46	10	80	0	80	125	6023.54	3107	205
L	Jul 2021	64	59	13	65	0	65	124	6023.05	3089	80
*	Aug 2021	45	51	12	98	0	98	122	6021.49	3033	111
	Sep 2021	33	39	10	93	0	93	120	6019.75	2971	99
	<b>WY 2021</b>	<b>674</b>	<b>676</b>	<b>77</b>	<b>832</b>	<b>0</b>	<b>832</b>				<b>1421</b>
	Oct 2021	36	41	7	76	0	76	118	6018.61	2931	91
	Nov 2021	37	56	3	53	0	53	118	6018.61	2931	75
	Dec 2021	25	53	2	53	0	53	118	6018.57	2930	72
	Jan 2022	27	58	2	53	0	53	118	6018.68	2933	69
	Feb 2022	31	58	2	48	0	48	118	6018.90	2941	64
	Mar 2022	77	93	3	53	0	53	120	6019.93	2977	113
	Apr 2022	111	105	5	51	0	51	122	6021.27	3025	216
	May 2022	175	139	7	53	0	53	125	6023.39	3101	498
	Jun 2022	300	157	10	124	0	124	126	6024.00	3123	574
	Jul 2022	192	161	13	61	0	61	129	6026.25	3207	136
	Aug 2022	68	84	12	90	0	90	128	6025.77	3189	109
	Sep 2022	46	69	11	90	0	90	127	6024.95	3158	103
	<b>WY 2022</b>	<b>1125</b>	<b>1076</b>	<b>76</b>	<b>805</b>	<b>0</b>	<b>805</b>				<b>2120</b>
	Oct 2022	51	69	7	58	0	58	127	6025.04	3162	89
	Nov 2022	49	71	3	53	0	53	128	6025.43	3176	85
	Dec 2022	33	68	2	71	0	71	128	6025.31	3172	98
	Jan 2023	40	77	2	71	0	71	128	6025.42	3176	98
	Feb 2023	44	76	2	64	0	64	128	6025.68	3186	88
	Mar 2023	95	109	3	85	0	85	129	6026.23	3206	164
	Apr 2023	125	117	5	83	0	83	130	6027.00	3235	290
	May 2023	246	169	8	114	0	114	132	6028.20	3280	628
	Jun 2023	360	262	10	182	0	182	135	6029.93	3346	581
	Jul 2023	184	154	14	66	0	66	137	6031.75	3417	140
	Aug 2023	80	83	13	105	0	105	136	6030.90	3384	129

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
* Sep 2020	5	9	9309.62	69
<b>WY 2020</b>	<b>101</b>	<b>113</b>		
H Oct 2020	4	5	9308.95	68
I Nov 2020	4	5	9308.44	67
S Dec 2020	4	5	9307.73	66
T Jan 2021	4	5	9306.89	65
O Feb 2021	3	5	9305.99	64
R Mar 2021	4	5	9304.90	62
I Apr 2021	7	5	9305.94	64
C May 2021	16	10	9310.13	70
A Jun 2021	24	16	9314.87	78
L Jul 2021	11	16	9311.57	72
* Aug 2021	7	15	9306.36	64
Sep 2021	5	9	9303.70	60
<b>WY 2021</b>	<b>93</b>	<b>102</b>		
Oct 2021	5	12	9298.42	53
Nov 2021	4	5	9297.38	52
Dec 2021	4	4	9296.84	51
Jan 2022	3	4	9295.85	50
Feb 2022	3	4	9294.44	48
Mar 2022	3	4	9293.53	47
Apr 2022	5	4	9293.98	47
May 2022	25	6	9307.78	66
Jun 2022	37	11	9322.96	92
Jul 2022	15	15	9322.96	92
Aug 2022	8	23	9314.62	77
Sep 2022	6	22	9304.62	62
<b>WY 2022</b>	<b>117</b>	<b>116</b>		
Oct 2022	6	18	9295.83	50
Nov 2022	5	13	9289.30	42
Dec 2022	5	5	9288.98	42
Jan 2023	4	5	9288.10	41
Feb 2023	4	5	9286.86	39
Mar 2023	5	5	9286.57	39
Apr 2023	9	5	9290.12	43
May 2023	27	9	9304.05	61
Jun 2023	42	15	9320.55	88
Jul 2023	16	21	9317.60	83
Aug 2023	9	24	9308.57	68

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	23	26	1	80	2	82	7470.42	439
	<b>WY 2020</b>	<b>607</b>	<b>619</b>	<b>8</b>	<b>806</b>	<b>26</b>	<b>908</b>		
H	Oct 2020	20	22	0	66	0	66	7463.47	389
I	Nov 2020	25	25	0	18	0	18	7464.59	396
S	Dec 2020	21	22	0	21	0	21	7464.73	397
T	Jan 2021	22	23	0	19	0	19	7465.24	400
O	Feb 2021	20	22	0	21	0	21	7465.37	401
R	Mar 2021	29	30	0	32	0	32	7465.07	399
I	Apr 2021	47	46	1	79	0	79	7459.68	365
C	May 2021	90	83	1	96	2	98	7457.14	350
A	Jun 2021	127	119	1	77	0	77	7463.84	391
L	Jul 2021	53	58	1	98	0	98	7457.21	350
*	Aug 2021	45	53	1	93	0	93	7450.20	310
	Sep 2021	26	30	1	91	0	91	7438.16	249
	<b>WY 2021</b>	<b>525</b>	<b>533</b>	<b>6</b>	<b>711</b>	<b>2</b>	<b>713</b>		
	Oct 2021	26	33	0	65	0	65	7431.23	216
	Nov 2021	22	23	0	16	0	16	7432.86	224
	Dec 2021	20	21	0	17	0	17	7433.74	228
	Jan 2022	18	19	0	18	0	18	7434.09	229
	Feb 2022	15	17	0	14	0	14	7434.56	232
	Mar 2022	26	27	0	19	0	19	7436.17	239
	Apr 2022	57	56	0	42	0	42	7439.14	253
	May 2022	186	167	1	160	0	160	7440.49	260
	Jun 2022	260	234	1	51	0	51	7471.59	442
	Jul 2022	92	92	1	68	0	68	7474.82	465
	Aug 2022	49	64	1	76	0	76	7472.93	452
	Sep 2022	34	50	1	72	0	72	7469.51	428
	<b>WY 2022</b>	<b>805</b>	<b>804</b>	<b>6</b>	<b>618</b>	<b>0</b>	<b>618</b>		
	Oct 2022	36	48	0	69	0	69	7466.19	406
	Nov 2022	30	38	0	14	0	14	7469.74	430
	Dec 2022	27	27	0	15	0	15	7471.44	441
	Jan 2023	25	26	0	15	0	15	7472.93	452
	Feb 2023	23	24	0	14	0	14	7474.41	462
	Mar 2023	37	38	0	17	0	17	7477.32	483
	Apr 2023	78	74	1	38	0	38	7482.25	519
	May 2023	199	181	1	166	0	166	7484.07	532
	Jun 2023	262	235	1	111	0	111	7499.58	655
	Jul 2023	98	104	1	86	0	86	7501.47	670
	Aug 2023	59	74	1	83	0	83	7500.26	660

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	23	82	1	83	80	0	84	7149.87	109
	<b>WY 2020</b>	<b>632</b>	<b>908</b>	<b>25</b>	<b>933</b>	<b>917</b>	<b>0</b>	<b>933</b>		
H	Oct 2020	21	66	1	67	66	0	66	7151.06	110
I	Nov 2020	27	18	2	20	23	0	23	7147.26	107
S	Dec 2020	24	21	3	24	23	0	23	7148.38	108
T	Jan 2021	23	19	1	21	23	0	23	7145.78	106
O	Feb 2021	21	21	1	22	21	0	21	7146.38	106
R	Mar 2021	30	32	1	33	35	0	35	7143.99	104
I	Apr 2021	49	79	1	81	82	0	82	7141.50	103
C	May 2021	93	98	4	102	91	0	91	7155.08	113
A	Jun 2021	132	77	4	81	85	0	85	7150.02	109
L	Jul 2021	54	98	1	99	97	0	97	7152.51	111
*	Aug 2021	46	93	1	93	94	0	94	7150.92	110
	Sep 2021	28	91	2	93	91	0	91	7153.73	112
	<b>WY 2021</b>	<b>548</b>	<b>713</b>	<b>23</b>	<b>736</b>	<b>732</b>	<b>0</b>	<b>732</b>		
	Oct 2021	28	65	2	67	67	0	67	7153.73	112
	Nov 2021	24	16	2	18	18	0	18	7153.73	112
	Dec 2021	21	17	1	18	18	0	18	7153.73	112
	Jan 2022	19	18	1	19	19	0	19	7153.73	112
	Feb 2022	17	14	2	16	16	0	16	7153.73	112
	Mar 2022	29	19	3	22	22	0	22	7153.73	112
	Apr 2022	67	42	10	52	52	0	52	7153.73	112
	May 2022	210	160	24	184	184	0	184	7153.73	112
	Jun 2022	280	51	20	71	71	0	71	7153.72	112
	Jul 2022	98	68	6	74	74	0	74	7153.73	112
	Aug 2022	51	76	2	78	78	0	78	7153.73	112
	Sep 2022	36	72	2	74	74	0	74	7153.73	112
	<b>WY 2022</b>	<b>880</b>	<b>618</b>	<b>75</b>	<b>693</b>	<b>692</b>	<b>0</b>	<b>692</b>		
	Oct 2022	38	69	2	71	71	0	71	7153.73	112
	Nov 2022	32	14	2	16	16	0	16	7153.73	112
	Dec 2022	28	15	2	17	17	0	17	7153.73	112
	Jan 2023	27	15	2	18	18	0	18	7153.73	112
	Feb 2023	25	14	2	16	16	0	16	7153.73	112
	Mar 2023	41	17	4	20	20	0	20	7153.73	112
	Apr 2023	89	38	11	48	48	0	48	7153.73	112
	May 2023	220	166	21	187	187	0	187	7153.73	112
	Jun 2023	280	111	18	129	129	0	129	7153.72	112
	Jul 2023	102	86	4	90	90	0	90	7153.73	112
	Aug 2023	62	83	2	85	85	0	85	7153.73	112

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	25	84	1	85	59	27	85	6749.98	16	59	28
	<b>WY 2020</b>	<b>683</b>	<b>933</b>	<b>51</b>	<b>984</b>	<b>905</b>	<b>72</b>	<b>984</b>			<b>447</b>	<b>535</b>
H	Oct 2020	23	66	2	68	49	19	67	6751.39	16	42	25
I	Nov 2020	29	23	2	25	25	0	25	6751.22	16	0	24
S	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
T	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
O	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
R	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
I	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
C	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
A	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
L	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
*	Aug 2021	52	94	6	100	100	0	100	6751.69	17	65	38
	Sep 2021	32	91	4	95	94	0	94	6753.04	17	55	39
	<b>WY 2021</b>	<b>600</b>	<b>732</b>	<b>52</b>	<b>784</b>	<b>761</b>	<b>22</b>	<b>783</b>			<b>417</b>	<b>369</b>
	Oct 2021	32	67	4	71	71	0	71	6753.04	17	30	41
	Nov 2021	27	18	3	21	21	0	21	6753.04	17	0	21
	Dec 2021	25	18	4	22	22	0	22	6753.04	17	0	22
	Jan 2022	22	19	3	22	22	0	22	6753.04	17	0	22
	Feb 2022	20	16	3	19	19	0	19	6753.04	17	0	19
	Mar 2022	33	22	4	26	26	0	26	6753.04	17	5	21
	Apr 2022	75	52	8	60	60	0	60	6753.04	17	42	18
	May 2022	240	184	30	214	134	79	214	6753.04	17	62	152
	Jun 2022	310	71	30	101	100	0	100	6753.03	17	61	39
	Jul 2022	110	74	12	86	86	0	86	6753.04	17	65	21
	Aug 2022	59	78	8	86	86	0	86	6753.04	17	65	21
	Sep 2022	42	74	6	80	80	0	80	6753.04	17	55	25
	<b>WY 2022</b>	<b>995</b>	<b>692</b>	<b>115</b>	<b>807</b>	<b>727</b>	<b>79</b>	<b>807</b>			<b>385</b>	<b>422</b>
	Oct 2022	44	71	6	77	77	0	77	6753.04	17	55	22
	Nov 2022	37	16	5	21	21	0	21	6753.04	17	0	21
	Dec 2022	33	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2023	31	18	4	22	22	0	22	6753.04	17	0	22
	Feb 2023	29	16	4	19	19	0	19	6753.04	17	0	19
	Mar 2023	47	20	6	26	26	0	26	6753.04	17	5	21
	Apr 2023	100	48	12	60	60	0	60	6753.04	17	42	18
	May 2023	247	187	27	214	134	80	214	6753.04	17	62	152
	Jun 2023	311	129	32	160	130	30	160	6753.03	17	61	99
	Jul 2023	110	90	9	98	98	0	98	6753.04	17	65	33
	Aug 2023	68	85	7	92	92	0	92	6753.04	17	65	27

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 2021 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



— BUREAU OF —  
RECLAMATION

Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Sep 2020	4	28	7620.77	30
<b>WY 2020</b>	<b>167</b>	<b>213</b>		
H Oct 2020	3	2	7620.99	30
I Nov 2020	3	0	7623.08	33
S Dec 2020	3	0	7624.62	36
T Jan 2021	3	0	7626.24	38
O Feb 2021	3	0	7627.63	41
R Mar 2021	4	0	7629.73	44
I Apr 2021	14	1	7636.28	57
C May 2021	50	30	7645.56	77
A Jun 2021	44	39	7647.63	81
L Jul 2021	19	36	7639.49	63
* Aug 2021	13	34	7628.72	43
Sep 2021	10	30	7614.50	22
<b>WY 2021</b>	<b>168</b>	<b>173</b>		
Oct 2021	10	17	7606.87	15
Nov 2021	6	2	7610.70	18
Dec 2021	5	2	7613.61	21
Jan 2022	4	2	7615.46	24
Feb 2022	4	2	7617.34	26
Mar 2022	6	2	7620.45	30
Apr 2022	16	2	7629.42	44
May 2022	59	31	7643.25	72
Jun 2022	67	43	7653.33	95
Jul 2022	27	42	7647.06	80
Aug 2022	17	38	7637.36	59
Sep 2022	15	30	7629.50	44
<b>WY 2022</b>	<b>235</b>	<b>211</b>		
Oct 2022	13	17	7626.67	39
Nov 2022	9	2	7630.59	46
Dec 2022	7	2	7633.31	51
Jan 2023	6	2	7635.28	55
Feb 2023	5	2	7637.01	58
Mar 2023	9	2	7640.50	66
Apr 2023	23	2	7649.66	86
May 2023	69	31	7664.31	124
Jun 2023	68	66	7664.80	125
Jul 2023	24	42	7658.02	107
Aug 2023	17	38	7649.55	86

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	-7	0	17	2	21	47	6043.32	1149	44
	<b>WY 2020</b>	<b>431</b>	<b>48</b>	<b>429</b>	<b>27</b>	<b>230</b>	<b>411</b>			<b>671</b>
H	Oct 2020	6	0	6	1	9	42	6039.09	1103	42
I	Nov 2020	17	0	14	1	0	22	6038.29	1094	37
S	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
T	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
O	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
R	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
I	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
C	May 2021	169	25	125	3	34	27	6039.27	1105	65
A	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
L	Jul 2021	24	2	40	4	45	35	6035.96	1070	57
*	Aug 2021	5	1	24	3	39	41	6030.18	1010	51
	Sep 2021	20	0	40	2	26	35	6027.91	988	49
	<b>WY 2021</b>	<b>485</b>	<b>60</b>	<b>429</b>	<b>23</b>	<b>223</b>	<b>346</b>			<b>552</b>
	Oct 2021	25	0	33	1	9	25	6027.66	985	40
	Nov 2021	25	0	21	1	0	31	6026.61	975	43
	Dec 2021	19	0	16	0	0	32	6024.95	959	42
	Jan 2022	17	0	15	0	0	20	6024.35	953	29
	Feb 2022	20	0	18	1	0	17	6024.38	953	24
	Mar 2022	53	3	46	1	5	19	6026.54	974	31
	Apr 2022	110	12	84	2	21	18	6030.93	1018	49
	May 2022	245	32	185	3	35	18	6043.07	1146	139
	Jun 2022	190	24	142	4	51	18	6049.16	1216	144
	Jul 2022	40	1	53	4	56	20	6046.89	1189	73
	Aug 2022	34	1	54	3	47	28	6044.74	1165	58
	Sep 2022	32	1	45	2	26	24	6044.17	1159	48
	<b>WY 2022</b>	<b>810</b>	<b>73</b>	<b>713</b>	<b>23</b>	<b>250</b>	<b>269</b>			<b>719</b>
	Oct 2022	37	1	40	2	9	19	6045.10	1169	40
	Nov 2022	26	0	19	1	0	18	6045.14	1170	35
	Dec 2022	25	0	20	1	0	18	6045.23	1171	34
	Jan 2023	22	0	18	1	0	18	6045.11	1169	33
	Feb 2023	30	0	26	1	0	17	6045.86	1178	29
	Mar 2023	96	9	79	1	5	18	6050.53	1232	42
	Apr 2023	152	18	113	2	21	18	6056.51	1304	68
	May 2023	266	35	193	3	35	117	6059.51	1342	258
	Jun 2023	212	27	183	4	51	231	6051.13	1239	383
	Jul 2023	48	2	64	4	56	20	6049.81	1223	79
	Aug 2023	30	2	49	3	47	24	6047.62	1198	58

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	47	267	46	602	0	602	3595.98	4963	11371	628
	<b>WY 2020</b>	<b>5848</b>	<b>6543</b>	<b>372</b>	<b>8230</b>	<b>0</b>	<b>8230</b>				<b>8425</b>
H	Oct 2020	92	246	31	640	0	640	3591.72	4932	10977	667
I	Nov 2020	261	279	29	640	0	640	3587.72	4903	10615	650
S	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
T	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
O	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
R	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
I	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
C	May 2021	543	495	20	624	0	624	3560.57	4723	8366	650
A	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	678
L	Jul 2021	209	305	36	767	0	767	3553.88	4683	7866	798
*	Aug 2021	294	452	35	801	0	801	3548.96	4655	7511	830
	Sep 2021	200	363	31	623	0	623	3545.13	4633	7242	639
	<b>WY 2021</b>	<b>3560</b>	<b>4047</b>	<b>277</b>	<b>8230</b>	<b>0</b>	<b>8230</b>				<b>8388</b>
	Oct 2021	290	378	21	480	0	480	3543.47	4624	7127	492
	Nov 2021	300	316	20	500	0	500	3540.70	4609	6938	503
	Dec 2021	285	322	16	600	0	600	3536.62	4587	6666	603
	Jan 2022	255	284	4	723	0	723	3530.26	4554	6255	732
	Feb 2022	250	263	4	639	0	639	3524.61	4526	5903	650
	Mar 2022	420	363	7	675	0	675	3519.71	4502	5607	691
	Apr 2022	675	540	11	601	0	601	3518.58	4497	5540	619
	May 2022	1680	1372	14	599	0	599	3530.07	4553	6243	618
	Jun 2022	2460	1978	26	628	0	628	3548.37	4651	7469	647
	Jul 2022	870	752	33	709	0	709	3548.49	4652	7478	732
	Aug 2022	365	456	33	758	0	758	3544.06	4627	7168	782
	Sep 2022	350	450	30	568	0	568	3542.07	4616	7031	585
	<b>WY 2022</b>	<b>8200</b>	<b>7473</b>	<b>220</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7655</b>
	Oct 2022	445	478	21	480	0	480	3541.76	4615	7010	492
	Nov 2022	447	427	20	500	0	500	3540.48	4608	6924	503
	Dec 2022	364	384	16	600	0	600	3537.26	4590	6709	603
	Jan 2023	355	373	4	723	0	723	3532.23	4564	6381	732
	Feb 2023	399	398	5	639	0	639	3528.64	4546	6153	650
	Mar 2023	653	559	8	675	0	675	3526.82	4537	6039	691
	Apr 2023	945	766	12	601	0	601	3529.08	4548	6180	619
	May 2023	2213	1969	16	599	0	599	3547.88	4648	7434	618
	Jun 2023	2595	2363	30	628	0	628	3568.82	4775	9012	647
	Jul 2023	898	797	40	709	0	709	3569.37	4778	9056	732
	Aug 2023	445	536	40	758	0	758	3566.34	4759	8814	782

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 2021 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



— BUREAU OF —  
RECLAMATION

	Date	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Sep 2020	602	56	59	646	10.9	28	651	668	1083.21	10279
	<b>WY 2020</b>	<b>8230</b>	<b>863</b>	<b>553</b>	<b>8263</b>		<b>255</b>	<b>8267</b>			
H	Oct 2020	640	35	43	730	11.9	21	734	661	1081.88	10167
I	Nov 2020	640	56	42	714	12.0	11	718	656	1081.07	10100
S	Dec 2020	719	59	37	497	8.1	8	500	671	1083.72	10322
T	Jan 2021	763	72	30	593	9.6	11	616	683	1085.95	10510
O	Feb 2021	675	55	28	574	10.3	8	581	690	1087.26	10622
R	Mar 2021	700	33	31	945	15.4	15	936	675	1084.39	10378
I	Apr 2021	628	36	38	1057	17.8	22	1056	647	1079.30	9953
C	May 2021	624	28	43	1086	17.7	27	1077	616	1073.50	9480
A	Jun 2021	651	-14	51	956	16.1	32	945	592	1068.77	9102
L	Jul 2021	767	93	63	862	14.0	30	854	586	1067.65	9014
*	Aug 2021	801	89	67	766	12.5	31	766	587	1067.96	9038
	Sep 2021	623	71	55	623	10.5	33	623	586	1067.76	9022
	<b>WY 2021</b>	<b>8230</b>	<b>612</b>	<b>529</b>	<b>9403</b>		<b>248</b>	<b>9404</b>			
	Oct 2021	480	58	40	614	10.0	27	614	578	1066.06	8889
	Nov 2021	500	71	40	616	10.4	15	616	572	1064.86	8796
	Dec 2021	600	67	34	521	8.5	9	521	578	1066.09	8892
	Jan 2022	723	95	28	531	8.6	11	531	593	1069.05	9124
	Feb 2022	639	97	26	610	11.0	9	610	599	1070.12	9209
	Mar 2022	675	111	29	909	14.8	16	909	588	1068.13	9052
	Apr 2022	601	81	36	964	16.2	18	964	568	1064.09	8736
	May 2022	599	50	41	946	15.4	21	946	546	1059.68	8399
	Jun 2022	628	29	48	906	15.2	30	906	526	1055.59	8092
	Jul 2022	709	64	59	798	13.0	35	798	519	1054.08	7981
	Aug 2022	758	81	63	766	12.5	36	766	517	1053.76	7957
	Sep 2022	568	71	51	682	11.5	32	682	510	1052.15	7839
	<b>WY 2022</b>	<b>7480</b>	<b>876</b>	<b>495</b>	<b>8863</b>		<b>258</b>	<b>8863</b>			
	Oct 2022	480	58	37	528	8.6	27	528	506	1051.46	7789
	Nov 2022	500	71	37	648	10.9	16	648	498	1049.78	7667
	Dec 2022	600	67	32	555	9.0	11	555	503	1050.68	7732
	Jan 2023	723	95	26	542	8.8	12	542	517	1053.74	7955
	Feb 2023	639	97	24	575	10.3	9	575	525	1055.36	8075
	Mar 2023	675	111	27	915	14.9	16	915	514	1053.16	7913
	Apr 2023	601	81	33	960	16.1	18	960	494	1048.89	7603
	May 2023	599	50	38	948	15.4	22	948	472	1044.16	7267
	Jun 2023	628	29	44	913	15.3	31	913	452	1039.69	6957
	Jul 2023	709	64	55	807	13.1	35	807	445	1038.00	6841
	Aug 2023	758	81	58	776	12.6	36	776	443	1037.58	6812

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	646	1	18	791	0	791	13.3	636.50	1525
	<b>WY 2020</b>	<b>8263</b>	<b>-50</b>	<b>198</b>	<b>8063</b>	<b>0</b>	<b>8063</b>			
H	Oct 2020	730	-12	15	725	0	725	11.8	635.65	1503
I	Nov 2020	714	-34	11	560	0	560	9.4	639.83	1613
S	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
T	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
O	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
R	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
I	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
C	May 2021	1086	-10	22	1055	0	1055	17.2	642.32	1680
A	Jun 2021	956	-2	25	901	0	901	15.1	643.33	1708
L	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
*	Aug 2021	766	-6	23	731	0	731	11.9	643.54	1713
	Sep 2021	623	-11	18	742	0	742	12.5	638.00	1564
	<b>WY 2021</b>	<b>9403</b>	<b>-139</b>	<b>198</b>	<b>9027</b>	<b>0</b>	<b>9027</b>			
	Oct 2021	614	-11	15	692	0	692	11.3	634.00	1460
	Nov 2021	616	-23	10	557	0	557	9.4	635.00	1486
	Dec 2021	521	-11	9	383	0	383	6.2	639.51	1604
	Jan 2022	531	-17	10	443	0	443	7.2	641.80	1666
	Feb 2022	610	-9	10	591	0	591	10.6	641.80	1666
	Mar 2022	909	-7	13	855	0	855	13.9	643.05	1700
	Apr 2022	964	-8	17	941	0	941	15.8	643.00	1699
	May 2022	946	-8	22	916	0	916	14.9	643.00	1699
	Jun 2022	906	-13	25	868	0	868	14.6	643.00	1699
	Jul 2022	798	-10	25	790	0	790	12.8	642.00	1671
	Aug 2022	766	-11	23	732	0	732	11.9	642.00	1671
	Sep 2022	682	-11	18	706	0	706	11.9	640.01	1617
	<b>WY 2022</b>	<b>8863</b>	<b>-138</b>	<b>197</b>	<b>8474</b>	<b>0</b>	<b>8474</b>			
	Oct 2022	528	-11	15	685	0	685	11.1	633.00	1434
	Nov 2022	648	-23	10	564	0	564	9.5	635.00	1486
	Dec 2022	555	-11	9	417	0	417	6.8	639.51	1604
	Jan 2023	542	-17	10	454	0	454	7.4	641.80	1666
	Feb 2023	575	-9	10	556	0	556	10.0	641.80	1666
	Mar 2023	915	-7	13	861	0	861	14.0	643.05	1700
	Apr 2023	960	-8	17	937	0	937	15.7	643.00	1699
	May 2023	948	-8	22	917	0	917	14.9	643.00	1699
	Jun 2023	913	-13	25	874	0	874	14.7	643.00	1699
	Jul 2023	807	-10	25	799	0	799	13.0	642.00	1671
	Aug 2023	776	-11	23	742	0	742	12.1	642.00	1671

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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)
*	Sep 2020	791	4	15	542	9.1	92	164	446.61	554	111	1.9
	<b>WY 2020</b>	<b>8063</b>	<b>98</b>	<b>139</b>	<b>6041</b>		<b>631</b>	<b>1319</b>			<b>1494</b>	
H	Oct 2020	725	21	12	448	7.3	94	164	447.77	576	66	1.1
I	Nov 2020	560	20	9	357	6.0	92	123	447.50	571	92	1.5
S	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
T	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
O	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
R	Mar 2021	920	1	9	663	10.8	99	149	447.28	566	179	2.9
I	Apr 2021	1028	0	11	728	12.2	102	163	448.04	581	167	2.8
C	May 2021	1055	-2	13	746	12.1	107	168	448.51	590	145	2.4
A	Jun 2021	901	21	15	706	11.9	103	87	448.55	591	151	2.5
L	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	147	2.4
*	Aug 2021	731	16	17	586	9.5	100	48	447.51	571	116	1.9
	Sep 2021	742	14	15	527	8.9	96	108	447.50	570	106	1.8
	<b>WY 2021</b>	<b>9027</b>	<b>126</b>	<b>140</b>	<b>6405</b>		<b>1064</b>	<b>1443</b>			<b>1505</b>	
	Oct 2021	692	21	12	459	7.5	99	138	447.50	570	64	1.0
	Nov 2021	557	18	9	340	5.7	95	127	447.50	571	94	1.6
	Dec 2021	383	20	7	228	3.7	98	84	446.50	552	87	1.4
	Jan 2022	443	17	6	302	4.9	106	41	446.50	552	138	2.2
	Feb 2022	591	7	8	397	7.2	74	113	446.50	552	124	2.2
	Mar 2022	855	7	9	613	10.0	106	121	446.70	555	147	2.4
	Apr 2022	941	11	11	700	11.8	76	117	448.70	593	147	2.5
	May 2022	916	9	13	682	11.1	91	126	448.70	593	110	1.8
	Jun 2022	868	6	16	688	11.6	89	68	448.70	593	116	2.0
	Jul 2022	790	15	17	663	10.8	91	35	448.00	580	123	2.0
	Aug 2022	732	15	17	602	9.8	91	35	447.50	571	101	1.6
	Sep 2022	706	14	15	510	8.6	89	95	447.50	570	99	1.7
	<b>WY 2022</b>	<b>8474</b>	<b>161</b>	<b>139</b>	<b>6184</b>		<b>1106</b>	<b>1100</b>			<b>1351</b>	
	Oct 2022	685	21	12	480	7.8	91	117	447.50	571	89	1.4
	Nov 2022	564	18	9	364	6.1	89	114	447.50	571	115	1.9
	Dec 2022	417	20	7	257	4.2	106	82	446.50	552	110	1.8
	Jan 2023	454	17	6	310	5.0	105	45	446.50	552	138	2.2
	Feb 2023	556	7	8	401	7.2	32	115	446.50	552	124	2.2
	Mar 2023	861	7	9	619	10.1	105	123	446.70	555	147	2.4
	Apr 2023	937	11	11	706	11.9	64	120	448.70	593	147	2.5
	May 2023	917	9	13	694	11.3	79	128	448.70	593	110	1.8
	Jun 2023	874	6	16	704	11.8	76	71	448.70	593	116	2.0
	Jul 2023	799	15	17	680	11.1	79	39	448.00	580	123	2.0
	Aug 2023	742	15	17	620	10.1	79	39	447.50	571	101	1.6

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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
*	Sep 2020	646	10.9	1083.21	10279	-70	441.07	1264.0	250.3	81	387.6
	<b>WY 2020</b>	<b>8263</b>							<b>3256.3</b>		
H	Oct 2020	730	11.9	1081.88	10167	-111	439.76	1154.0	284.7	74	390.2
I	Nov 2020	714	12.0	1081.07	10100	-68	437.77	1303.0	275.5	85	385.6
S	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
T	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
O	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
R	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
I	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
C	May 2021	1086	17.7	1073.50	9480	-473	423.99	1042.9	433.7	69	399.5
A	Jun 2021	956	16.1	1068.77	9102	-378	419.04	1451.0	366.8	100	383.7
L	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
*	Aug 2021	766	12.5	1067.96	9038	24	421.53	1322.1	286.1	93	373.4
	Sep 2021	623	10.5	1067.76	9022	-16	417.35	1228.0	233.3	87	374.7
	<b>WY 2021</b>	<b>9403</b>							<b>3645.1</b>		
	Oct 2021	614	10.0	1066.06	8889	-133	418.95	1246.0	229.3	89	373.7
	Nov 2021	616	10.4	1064.86	8796	-93	421.15	938.0	234.5	67	380.7
	Dec 2021	521	8.5	1066.09	8892	96	419.32	945.0	198.3	68	380.4
	Jan 2022	531	8.6	1069.05	9124	232	419.90	870.0	197.6	61	372.1
	Feb 2022	610	11.0	1070.12	9209	85	420.46	964.9	230.2	67	377.4
	Mar 2022	909	14.8	1068.13	9052	-158	417.43	1242.0	341.9	88	376.2
	Apr 2022	964	16.2	1064.09	8736	-316	414.62	1136.0	359.7	82	373.0
	May 2022	946	15.4	1059.68	8399	-337	410.56	1094.0	352.8	81	372.9
	Jun 2022	906	15.2	1055.59	8092	-307	404.38	1315.0	328.8	100	362.9
	Jul 2022	798	13.0	1054.08	7981	-112	401.93	1298.0	289.0	100	362.1
	Aug 2022	766	12.5	1053.76	7957	-23	401.35	1298.0	275.7	100	360.0
	Sep 2022	682	11.5	1052.15	7839	-118	401.04	1281.0	243.2	100	356.5
	<b>WY 2022</b>	<b>8863</b>							<b>3280.9</b>		
	Oct 2022	528	8.6	1051.46	7789	-50	404.91	946.0	188.3	74	356.6
	Nov 2022	648	10.9	1049.78	7667	-122	404.71	1091.0	232.8	86	359.3
	Dec 2022	555	9.0	1050.68	7732	65	402.15	1112.0	197.1	87	354.9
	Jan 2023	542	8.8	1053.74	7955	223	401.93	1123.0	191.8	87	353.7
	Feb 2023	575	10.3	1055.36	8075	120	405.52	885.4	210.5	67	366.3
	Mar 2023	915	14.9	1053.16	7913	-162	404.55	907.0	337.2	70	368.5
	Apr 2023	960	16.1	1048.89	7603	-310	400.94	894.5	349.0	70	363.4
	May 2023	948	15.4	1044.16	7267	-336	396.62	863.7	343.2	69	362.1
	Jun 2023	913	15.3	1039.69	6957	-310	388.83	1250.0	316.9	100	347.2
	Jul 2023	807	13.1	1038.00	6841	-116	386.11	1234.0	279.3	100	346.3
	Aug 2023	776	12.6	1037.58	6812	-29	385.39	1234.0	267.0	100	344.3

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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
*	Sep 2020	791	13.3	636.50	1525	-163	133.32	255.0	98.1	100	123.9
	<b>WY 2020</b>	<b>8063</b>							<b>1015.1</b>		
H	Oct 2020	725	11.8	635.65	1503	-22	134.17	215.5	91.1	85	125.5
I	Nov 2020	560	9.4	639.83	1613	110	140.14	168.3	67.8	66	121.2
S	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
T	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
O	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
R	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
I	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
C	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
A	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
L	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
*	Aug 2021	731	11.9	643.54	1713	6	144.21	255.0	93.7	100	128.2
	Sep 2021	742	12.5	638.00	1564	-149	137.94	255.0	92.3	100	124.3
	<b>WY 2021</b>	<b>9027</b>							<b>1138.8</b>		
	Oct 2021	692	11.3	634.00	1460	-104	133.64	189.2	83.3	74	120.4
	Nov 2021	557	9.4	635.00	1486	26	132.91	153.0	66.7	60	119.7
	Dec 2021	383	6.2	639.51	1604	118	137.06	199.1	47.3	78	123.5
	Jan 2022	443	7.2	641.80	1666	62	140.01	159.6	55.9	63	126.1
	Feb 2022	591	10.6	641.80	1666	0	139.68	189.4	74.4	74	125.8
	Mar 2022	855	13.9	643.05	1700	34	139.07	255.0	107.1	100	125.3
	Apr 2022	941	15.8	643.00	1699	-2	139.00	255.0	117.9	100	125.2
	May 2022	916	14.9	643.00	1699	0	139.29	255.0	114.9	100	125.5
	Jun 2022	868	14.6	643.00	1699	0	139.40	255.0	109.0	100	125.6
	Jul 2022	790	12.8	642.00	1671	-27	139.53	255.0	99.3	100	125.7
	Aug 2022	732	11.9	642.00	1671	0	139.38	255.0	92.0	100	125.6
	Sep 2022	706	11.9	640.01	1617	-54	138.40	255.0	88.1	100	124.7
	<b>WY 2022</b>	<b>8474</b>							<b>1055.7</b>		
	Oct 2022	685	11.1	633.00	1434	-183	134.19	227.0	82.8	89	120.9
	Nov 2022	564	9.5	635.00	1486	51	132.37	159.8	67.2	63	119.3
	Dec 2022	417	6.8	639.51	1604	118	136.80	154.7	51.4	61	123.2
	Jan 2023	454	7.4	641.80	1666	62	139.93	156.3	57.2	61	126.1
	Feb 2023	556	10.0	641.80	1666	0	139.95	156.6	70.0	61	126.1
	Mar 2023	861	14.0	643.05	1700	34	139.02	194.1	107.9	76	125.3
	Apr 2023	937	15.7	643.00	1699	-2	139.02	249.9	117.4	98	125.2
	May 2023	917	14.9	643.00	1699	0	139.28	255.0	115.1	100	125.5
	Jun 2023	874	14.7	643.00	1699	0	139.36	255.0	109.8	100	125.6
	Jul 2023	799	13.0	642.00	1671	-27	139.47	255.0	100.3	100	125.7
	Aug 2023	742	12.1	642.00	1671	0	139.32	255.0	93.1	100	125.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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
*	Sep 2020	542	9.1	446.61	554	-27	78.70	120.0	37.7	100	69.6
	<b>WY 2020</b>	<b>6041</b>							<b>416.0</b>		
H	Oct 2020	448	7.3	447.77	576	22	81.85	90.0	32.2	75	71.8
I	Nov 2020	357	6.0	447.50	571	-5	81.16	90.0	23.9	75	66.9
S	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
T	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
O	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
R	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
I	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
C	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
A	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
L	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
*	Aug 2021	586	9.5	447.51	571	-14	79.33	120.0	40.7	100	69.4
	Sep 2021	527	8.9	447.50	570	0	74.89	120.0	34.3	100	65.1
	<b>WY 2021</b>	<b>6405</b>							<b>441.0</b>		
	Oct 2021	459	7.5	447.50	570	0	76.04	94.8	30.1	79	65.6
	Nov 2021	340	5.7	447.50	571	0	76.29	90.0	22.0	75	64.9
	Dec 2021	228	3.7	446.50	552	-19	74.82	110.3	14.1	92	61.8
	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>6184</b>							<b>404.4</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

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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
* Sep 2020	262	37	23	28	11	2
<b>Summer 2020</b>	<b>1806</b>	<b>254</b>	<b>146</b>	<b>182</b>	<b>102</b>	<b>37</b>
H Oct 2020	277	24	18	22	9	0
I Nov 2020	275	20	5	7	3	1
S Dec 2020	304	24	5	7	3	3
T Jan 2021	319	24	5	6	3	3
O Feb 2021	278	21	5	6	2	3
R 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>
I Apr 2021	254	19	20	28	17	3
C May 2021	249	36	24	32	20	3
A Jun 2021	260	30	20	30	19	3
L Jul 2021	303	24	27	34	20	3
* Aug 2021	310	37	25	34	20	3
Sep 2021	231	31	23	33	16	3
<b>Summer 2021</b>	<b>1607</b>	<b>177</b>	<b>140</b>	<b>190</b>	<b>112</b>	<b>17</b>
Oct 2021	177	25	16	24	12	2
Nov 2021	183	18	4	6	4	4
Dec 2021	218	18	4	6	4	4
Jan 2022	259	18	4	7	4	3
Feb 2022	227	16	4	6	3	3
Mar 2022	235	18	5	8	5	3
<b>Winter 2022</b>	<b>1300</b>	<b>111</b>	<b>37</b>	<b>58</b>	<b>31</b>	<b>18</b>
Apr 2022	208	17	10	19	10	3
May 2022	210	18	40	66	23	5
Jun 2022	228	42	13	25	17	7
Jul 2022	264	21	19	27	15	8
Aug 2022	280	30	21	28	15	6
Sep 2022	208	30	20	27	14	3
<b>Summer 2022</b>	<b>1399</b>	<b>157</b>	<b>125</b>	<b>192</b>	<b>95</b>	<b>31</b>
Oct 2022	176	20	19	26	13	4
Nov 2022	182	18	4	6	4	5
Dec 2022	217	24	4	6	4	5
Jan 2023	259	24	4	6	4	4
Feb 2023	228	21	4	6	3	4
Mar 2023	238	29	5	7	5	4
<b>Winter 2023</b>	<b>834</b>	<b>85</b>	<b>32</b>	<b>44</b>	<b>24</b>	<b>18</b>
Apr 2023	212	28	11	17	10	4
May 2023	217	38	48	67	23	5
Jun 2023	238	62	33	46	22	7
Jul 2023	276	23	26	32	17	8
Aug 2023	294	36	25	31	16	6

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## September 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>										
Sep 2021	813	519	691	16811	18834	18582	37416	813	519	691	2023	16811	18582	37416	2270	623	0	23.0
Oct 2021	882	581	714	17080	19257	18598	37855	882	581	714	2177	17080	18598	37855	3040	614	0	22.6
Nov 2021	928	613	716	17195	19452	18731	38183	928	613	716	2257	17195	18731	38183	3810	616	0	22.3
Dec 2021	948	606	726	17384	19664	18824	38489	948	606	726	2280	17384	18824	38489	4580	521	0	22.2
Jan 2022	978	602	743	17656	19979	18728	38707	978	602	743	2323	17656	18728	38707	5350	531	0	22.0
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Jan 2022	978	602	743	17656	19979	18728	38707	470	282	414	1166	17656	18728	37550	5350	531	0	22.1
Feb 2022	1,007	600	748	18067	20422	18496	38918	496	282	419	1197	18067	18496	37760	1500	610	0	21.8
Mar 2022	1,026	598	748	18419	20791	18411	39202	513	281	418	1212	18419	18411	38042	1500	909	0	21.4
Apr 2022	1,007	590	727	18715	21039	18568	39608	488	275	391	1154	18715	18568	38437	1500	964	0	21.2
May 2022	954	576	683	18782	20995	18884	39880	429	259	324	1012	18782	18884	38678	1500	946	0	21.8
Jun 2022	843	570	555	18079	20047	19221	39268	306	233	158	697	18079	19221	37997	1500	906	0	23.2
Jul 2022	681	387	486	16853	18407	19528	37935	131	24	33	188	16853	19528	36569	1500	798	0	23.1
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2022	569	365	512	16844	18290	19639	37929	569	365	512	1446	16844	19639	37929	1500	766	0	22.7
Sep 2022	605	378	536	17154	18674	19663	38336	605	378	536	1519	17154	19663	38336	2270	682	0	22.3
Oct 2022	660	401	543	17291	18895	19781	38676	660	401	543	1604	17291	19781	38676	3040	528	0	22.0
Nov 2022	676	423	532	17312	18943	19831	38774	676	423	532	1631	17312	19831	38774	3810	648	0	21.8
Dec 2022	684	400	532	17398	19014	19953	38967	684	400	532	1616	17398	19953	38967	4580	555	0	21.8
Jan 2023	724	388	531	17613	19256	19888	39145	724	388	531	1643	17613	19888	39145	5350	542	0	21.7
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Jan 2023	724	388	531	17613	19256	19888	39145	429	275	238	942	17613	19888	38444	5350	542	0	21.7
Feb 2023	757	378	532	17941	19609	19665	39273	460	266	239	964	17941	19665	38570	1500	575	0	21.6
Mar 2023	781	368	524	18169	19841	19545	39385	480	257	229	966	18169	19545	38680	1500	915	0	21.4
Apr 2023	775	347	470	18283	19875	19707	39582	471	236	168	875	18283	19707	38865	1500	960	0	21.4
May 2023	739	311	397	18142	19589	20017	39606	428	195	73	696	18142	20017	38855	1500	948	0	22.5
Jun 2023	618	297	360	16888	18162	20353	38515	295	163	-3	455	16888	20353	37696	1500	913	0	24.0
Jul 2023	456	175	462	15310	16402	20663	37066	118	12	44	174	15310	20663	36147	1500	807	0	24.0
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2023	357	159	478	15266	16260	20779	37039	357	159	478	994	15266	20779	37039	1500	776	0	23.6

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