

To: All Annual Operating Plan Recipients

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In addition to the November 2021 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted model runs in November to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

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

<https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf>, or  
<https://www.usbr.gov/lc/region/g4000/24mo/2021/November-Chart.pdf>.

The water year 2022 unregulated inflow in the Probable Maximum inflow scenario is 14.02 maf, or 146% of average. Consistent with the Interim Guidelines, the November Probable Maximum 24-Month Study includes a release volume from Glen Canyon Dam of 7.48 maf in water year 2022 and 9.00 maf in water year 2023. Under the probable maximum scenario, Lake Powell's elevation is projected to be 3,594.44 feet on December 31, 2022. With intervening flows between Lake Powell and Lake Mead of 0.994 maf in calendar year 2022, Lake Mead's elevation is projected to be 1,061.95 feet on December 31, 2022.

The 2021 AOP is available online at: <https://www.usbr.gov/lc/region/g4000/aop/AOP21.pdf>.  
The Draft 2022 AOP is available online at: [https://www.usbr.gov/lc/region/g4000/AOP2022/2022%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: <https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.  
The Colorado River DCPs are available online at: <https://www.usbr.gov/dcp/finaldocs.html>.  
The Upper Basin Hydrology Summary is available online at: [https://www.usbr.gov/uc/water/crsp/studies/24Month\\_11\\_ucb.pdf](https://www.usbr.gov/uc/water/crsp/studies/24Month_11_ucb.pdf).

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	33	1	17	35	52	6487.89	205
H	Dec 2020	27	1	50	1	51	6483.85	180
I	Jan 2021	25	1	48	2	51	6479.03	153
S	Feb 2021	24	0	46	0	46	6474.49	132
T	Mar 2021	40	0	51	0	51	6472.03	121
O	Apr 2021	54	1	49	0	49	6473.03	125
R	May 2021	76	1	49	0	49	6478.67	152
I	Jun 2021	143	2	42	0	42	6494.76	251
C	Jul 2021	45	2	43	0	43	6494.70	250
A	Aug 2021	35	2	41	0	41	6493.52	242
L	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	37	1	33	4	37	6491.62	229
	Nov 2021	35	1	59	0	59	6487.96	214
	Dec 2021	27	1	61	0	61	6482.23	179
	Jan 2022	23	1	61	0	61	6474.73	140
	Feb 2022	32	0	56	0	56	6469.42	116
	Mar 2022	77	0	64	0	64	6472.21	128
	Apr 2022	116	1	12	77	89	6477.77	154
	May 2022	270	2	104	50	154	6495.97	268
	Jun 2022	478	2	102	348	450	6499.44	294
	Jul 2022	293	3	102	160	262	6503.19	323
	Aug 2022	97	2	93	0	93	6503.33	324
	Sep 2022	52	2	36	35	71	6500.53	302
	<b>WY 2022</b>	<b>1537</b>	<b>15</b>	<b>786</b>	<b>673</b>	<b>1459</b>		
	Oct 2022	54	1	74	0	74	6497.77	282
	Nov 2022	47	1	73	0	73	6494.06	255
	Dec 2022	33	1	75	0	75	6487.73	212
	Jan 2023	33	1	75	0	75	6480.49	169
	Feb 2023	30	1	68	0	68	6472.82	131
	Mar 2023	64	0	72	0	72	6470.94	122
	Apr 2023	97	1	84	0	84	6473.74	135
	May 2023	225	1	99	0	99	6494.70	259
	Jun 2023	406	2	103	264	367	6499.74	296
	Jul 2023	224	3	102	92	193	6503.36	324
	Aug 2023	80	2	75	0	75	6503.68	326
	Sep 2023	46	2	66	0	66	6500.89	305
	<b>WY 2023</b>	<b>1339</b>	<b>15</b>	<b>965</b>	<b>356</b>	<b>1321</b>		
	Oct 2023	44	1	68	0	68	6497.60	280

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	37	55	4	54	0	54	128	6025.33	3172	82
H	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
I	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
S	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
T	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
O	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
R	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
I	Jun 2021	148	46	10	80	0	80	125	6023.52	3106	205
C	Jul 2021	48	43	12	65	0	65	124	6022.61	3073	80
A	Aug 2021	44	50	12	98	0	98	121	6021.02	3016	111
L	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	49	50	7	77	0	77	117	6018.23	2918	107
	Nov 2021	43	67	3	51	0	51	118	6018.58	2930	77
	Dec 2021	27	61	2	52	0	52	118	6018.79	2937	71
	Jan 2022	29	67	2	52	0	52	119	6019.17	2950	71
	Feb 2022	56	79	2	47	0	47	120	6019.99	2979	72
	Mar 2022	163	151	3	77	0	77	123	6021.90	3047	161
	Apr 2022	186	159	5	74	0	74	126	6024.01	3124	340
	May 2022	392	277	8	92	0	92	133	6028.56	3294	759
	Jun 2022	641	613	11	283	169	452	138	6032.29	3438	1135
	Jul 2022	390	359	14	104	0	104	148	6038.01	3669	320
	Aug 2022	115	112	14	105	0	105	147	6037.85	3662	137
	Sep 2022	68	87	12	108	0	108	146	6037.08	3631	137
	<b>WY 2022</b>	<b>2159</b>	<b>2082</b>	<b>81</b>	<b>1123</b>	<b>169</b>	<b>1292</b>				<b>3388</b>
	Oct 2022	70	90	8	126	0	126	144	6036.04	3588	165
	Nov 2022	59	85	4	144	0	144	142	6034.54	3528	178
	Dec 2022	36	78	2	191	0	191	137	6031.77	3418	215
	Jan 2023	43	86	2	191	0	191	133	6029.13	3315	216
	Feb 2023	48	85	2	172	0	172	130	6026.87	3230	198
	Mar 2023	121	129	3	166	0	166	128	6025.84	3191	249
	Apr 2023	147	134	5	161	0	161	127	6025.01	3161	406
	May 2023	324	198	8	77	0	77	132	6027.93	3270	696
	Jun 2023	530	491	11	283	59	342	137	6031.39	3403	888
	Jul 2023	269	239	14	78	0	78	143	6034.93	3544	204
	Aug 2023	91	86	13	104	0	104	141	6034.19	3513	131
	Sep 2023	55	75	12	105	0	105	140	6033.18	3474	126
	<b>WY 2023</b>	<b>1794</b>	<b>1775</b>	<b>82</b>	<b>1797</b>	<b>59</b>	<b>1857</b>				<b>3674</b>
	Oct 2023	52	75	8	78	0	78	139	6032.92	3463	104

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
* Nov 2020	4	5	9308.44	67
H Dec 2020	4	5	9307.73	66
I Jan 2021	4	5	9306.89	65
S Feb 2021	3	5	9305.99	64
T Mar 2021	4	5	9304.90	62
O Apr 2021	7	5	9305.94	64
R May 2021	16	10	9310.13	70
I Jun 2021	24	16	9314.87	78
C Jul 2021	11	16	9311.57	72
A Aug 2021	7	15	9306.36	64
L Sep 2021	4	10	9302.48	59
<b>WY 2021</b>	<b>92</b>	<b>102</b>		
* Oct 2021	5	5	9302.69	59
Nov 2021	4	5	9302.27	58
Dec 2021	4	5	9301.48	57
Jan 2022	3	5	9300.47	56
Feb 2022	4	4	9300.04	55
Mar 2022	5	5	9300.03	55
Apr 2022	10	15	9296.03	50
May 2022	30	21	9303.02	59
Jun 2022	55	27	9320.17	87
Jul 2022	31	27	9322.34	91
Aug 2022	12	24	9315.89	80
Sep 2022	8	18	9309.69	69
<b>WY 2022</b>	<b>170</b>	<b>159</b>		
Oct 2022	7	9	9308.48	68
Nov 2022	5	6	9308.00	67
Dec 2022	5	6	9307.15	65
Jan 2023	5	6	9306.26	64
Feb 2023	4	6	9305.23	63
Mar 2023	5	6	9304.35	61
Apr 2023	10	15	9300.88	56
May 2023	30	21	9307.08	65
Jun 2023	51	27	9321.57	90
Jul 2023	24	27	9319.94	87
Aug 2023	11	24	9312.34	74
Sep 2023	8	18	9305.87	64
<b>WY 2023</b>	<b>165</b>	<b>171</b>		
Oct 2023	7	9	9304.25	61

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	25	25	0	18	0	18	7464.59	396
H	Dec 2020	21	22	0	21	0	21	7464.73	397
I	Jan 2021	22	23	0	19	0	19	7465.24	400
S	Feb 2021	20	22	0	21	0	21	7465.37	401
T	Mar 2021	29	30	0	32	0	32	7465.07	399
O	Apr 2021	47	46	1	79	0	79	7459.68	365
R	May 2021	90	83	1	96	2	98	7457.14	350
I	Jun 2021	127	119	1	77	0	77	7463.84	391
C	Jul 2021	53	58	1	98	0	98	7457.21	350
A	Aug 2021	45	53	1	93	0	93	7450.20	310
L	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	27	26	0	58	0	58	7429.52	209
	Nov 2021	22	23	0	16	0	16	7430.97	215
	Dec 2021	19	20	0	16	0	16	7431.86	219
	Jan 2022	17	18	0	15	0	15	7432.59	223
	Feb 2022	21	21	0	13	0	13	7434.30	230
	Mar 2022	38	39	0	15	0	15	7439.26	254
	Apr 2022	95	100	0	33	0	33	7452.09	321
	May 2022	253	243	1	192	17	209	7457.90	354
	Jun 2022	362	334	1	71	0	71	7494.80	616
	Jul 2022	180	176	1	71	0	71	7507.28	720
	Aug 2022	72	84	1	86	0	86	7506.94	717
	Sep 2022	41	51	1	87	0	87	7502.61	680
	<b>WY 2022</b>	<b>1147</b>	<b>1136</b>	<b>7</b>	<b>673</b>	<b>17</b>	<b>690</b>		
	Oct 2022	40	42	1	88	0	88	7497.06	634
	Nov 2022	31	32	0	55	0	55	7494.19	611
	Dec 2022	26	28	0	114	0	114	7483.01	524
	Jan 2023	25	26	0	87	0	87	7474.60	463
	Feb 2023	23	25	0	56	0	56	7470.01	432
	Mar 2023	40	42	0	51	0	51	7468.64	422
	Apr 2023	93	98	1	69	0	69	7472.88	451
	May 2023	246	237	1	181	0	181	7480.68	507
	Jun 2023	334	310	1	105	0	105	7506.17	710
	Jul 2023	140	143	2	97	0	97	7511.30	755
	Aug 2023	69	83	1	89	0	89	7510.43	747
	Sep 2023	41	51	1	88	0	88	7506.10	710
	<b>WY 2023</b>	<b>1111</b>	<b>1117</b>	<b>8</b>	<b>1079</b>	<b>0</b>	<b>1079</b>		
	Oct 2023	36	38	1	70	0	70	7502.25	677

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	27	18	2	20	23	0	23	7147.26	107
H	Dec 2020	24	21	3	24	23	0	23	7148.38	108
I	Jan 2021	23	19	1	21	23	0	23	7145.78	106
S	Feb 2021	21	21	1	22	21	0	21	7146.38	106
T	Mar 2021	30	32	1	33	35	0	35	7143.99	104
O	Apr 2021	49	79	1	81	82	0	82	7141.50	103
R	May 2021	93	98	4	102	91	0	91	7155.08	113
I	Jun 2021	132	77	4	81	85	0	85	7150.02	109
C	Jul 2021	54	98	1	99	97	0	97	7152.51	111
A	Aug 2021	46	93	1	93	94	0	94	7150.92	110
L	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	27	58	1	59	61	0	61	7149.67	109
	Nov 2021	23	16	1	17	14	0	14	7153.73	112
	Dec 2021	20	16	1	17	17	0	17	7153.73	112
	Jan 2022	18	15	1	16	16	0	16	7153.73	112
	Feb 2022	22	13	2	15	15	0	15	7153.73	112
	Mar 2022	42	15	4	19	19	0	19	7153.73	112
	Apr 2022	107	33	12	45	45	0	45	7153.73	112
	May 2022	283	209	30	239	239	0	239	7153.73	112
	Jun 2022	393	71	31	102	102	0	102	7153.72	112
	Jul 2022	192	71	11	82	82	0	82	7153.73	112
	Aug 2022	77	86	4	90	90	0	90	7153.73	112
	Sep 2022	43	87	3	89	89	0	89	7153.73	112
	<b>WY 2022</b>	<b>1247</b>	<b>690</b>	<b>101</b>	<b>790</b>	<b>789</b>	<b>0</b>	<b>789</b>		
	Oct 2022	43	88	2	90	90	0	90	7153.73	112
	Nov 2022	33	55	2	57	57	0	57	7153.73	112
	Dec 2022	28	114	1	115	115	0	115	7153.73	112
	Jan 2023	26	87	1	88	88	0	88	7153.73	112
	Feb 2023	25	56	1	58	58	0	58	7153.73	112
	Mar 2023	43	51	3	54	53	0	53	7153.73	112
	Apr 2023	105	69	12	80	80	0	80	7153.73	112
	May 2023	274	181	28	208	208	0	208	7153.73	112
	Jun 2023	358	105	23	129	129	0	129	7153.72	112
	Jul 2023	147	97	7	104	104	0	104	7153.73	112
	Aug 2023	71	89	2	91	91	0	91	7153.73	112
	Sep 2023	43	88	1	89	89	0	89	7153.73	112
	<b>WY 2023</b>	<b>1196</b>	<b>1079</b>	<b>84</b>	<b>1164</b>	<b>1163</b>	<b>0</b>	<b>1163</b>		
	Oct 2023	37	70	1	72	72	0	72	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	29	23	2	25	25	0	25	6751.22	16	0	24
H	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
I	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
S	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
T	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
O	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
R	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
I	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
C	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
A	Aug 2021	52	94	6	100	100	0	100	6751.69	17	65	38
L	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	32	61	5	66	34	32	66	6752.35	17	41	25
	Nov 2021	26	14	3	17	17	0	17	6753.04	17	0	17
	Dec 2021	23	17	3	20	20	0	20	6753.04	17	0	20
	Jan 2022	22	16	4	20	20	0	20	6753.04	17	0	20
	Feb 2022	25	15	3	18	18	0	18	6753.04	17	0	18
	Mar 2022	49	19	6	25	25	0	25	6753.04	17	5	20
	Apr 2022	121	45	14	58	43	15	58	6753.04	17	42	16
	May 2022	326	239	43	282	134	148	282	6753.04	17	62	220
	Jun 2022	446	102	54	156	130	26	156	6753.03	17	61	95
	Jul 2022	218	82	26	108	108	0	108	6753.04	17	65	43
	Aug 2022	85	90	9	98	98	0	98	6753.04	17	65	33
	Sep 2022	49	89	6	95	95	0	95	6753.04	17	55	40
	<b>WY 2022</b>	<b>1422</b>	<b>789</b>	<b>175</b>	<b>964</b>	<b>742</b>	<b>221</b>	<b>963</b>			<b>396</b>	<b>567</b>
	Oct 2022	48	90	6	96	52	43	95	6753.04	17	55	40
	Nov 2022	38	57	5	62	62	0	62	6753.04	17	0	62
	Dec 2022	32	115	5	120	120	0	120	6753.04	17	0	120
	Jan 2023	30	88	4	93	93	0	93	6753.04	17	0	93
	Feb 2023	29	58	4	61	61	0	61	6753.04	17	0	61
	Mar 2023	50	53	7	60	60	0	60	6753.04	17	5	55
	Apr 2023	117	80	12	92	92	0	92	6753.04	17	42	50
	May 2023	308	208	34	242	134	108	242	6753.04	17	62	180
	Jun 2023	398	129	40	169	130	39	169	6753.03	17	61	108
	Jul 2023	163	104	16	120	120	0	120	6753.04	17	65	55
	Aug 2023	79	91	8	99	99	0	99	6753.04	17	65	34
	Sep 2023	49	89	6	95	95	0	95	6753.04	17	55	40
	<b>WY 2023</b>	<b>1341</b>	<b>1163</b>	<b>146</b>	<b>1309</b>	<b>1118</b>	<b>190</b>	<b>1308</b>			<b>410</b>	<b>898</b>
	Oct 2023	43	72	6	78	52	25	78	6753.04	17	55	23

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	3	0	7623.08	33
H	Dec 2020	3	0	7624.62	36
I	Jan 2021	3	0	7626.24	38
S	Feb 2021	3	0	7627.63	41
T	Mar 2021	4	0	7629.73	44
O	Apr 2021	14	1	7636.28	57
R	May 2021	50	30	7645.56	77
I	Jun 2021	44	39	7647.63	81
C	Jul 2021	19	36	7639.49	63
A	Aug 2021	13	34	7628.72	43
L	Sep 2021	7	26	7615.74	24
<b>WY 2021</b>		<b>166</b>	<b>169</b>		
*	Oct 2021	8	3	7619.62	29
	Nov 2021	6	2	7622.61	33
	Dec 2021	5	2	7624.35	36
	Jan 2022	4	2	7625.69	38
	Feb 2022	4	2	7626.96	40
	Mar 2022	9	2	7631.03	47
	Apr 2022	25	2	7642.34	70
	May 2022	67	31	7657.23	105
	Jun 2022	81	60	7665.04	126
	Jul 2022	35	43	7661.69	117
	Aug 2022	18	38	7653.99	97
	Sep 2022	17	30	7648.58	84
<b>WY 2022</b>		<b>278</b>	<b>215</b>		
	Oct 2022	15	17	7647.65	82
	Nov 2022	9	2	7650.50	88
	Dec 2022	6	2	7652.33	93
	Jan 2023	6	2	7653.81	96
	Feb 2023	5	2	7655.17	100
	Mar 2023	11	2	7658.64	109
	Apr 2023	28	10	7665.09	126
	May 2023	78	79	7664.35	124
	Jun 2023	84	82	7665.05	126
	Jul 2023	33	43	7661.04	115
	Aug 2023	20	38	7653.87	97
	Sep 2023	19	30	7649.47	86
<b>WY 2023</b>		<b>314</b>	<b>308</b>		
	Oct 2023	13	17	7647.57	81

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum Probable Inflow\*

### Navajo Reservoir



— BUREAU OF —  
RECLAMATION

		Mod Unreg	Azotea	Reg	Evap	NIIP	Total	Reservoir Elev	Live	Farmington
	Date	Inflow	Tunnel Div	Inflow	Losses	Diversion	Release	End of Month	Storage	Flow
		(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
*	Nov 2020	17	0	14	1	0	22	6038.29	1094	37
H	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
I	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
S	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
T	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
O	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
R	May 2021	169	25	124	3	34	26	6039.27	1105	65
I	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
C	Jul 2021	24	2	40	4	45	35	6035.96	1070	57
A	Aug 2021	5	1	24	3	39	41	6030.18	1010	48
L	Sep 2021	-2	0	17	2	25	50	6024.10	951	49
	<b>WY 2021</b>	<b>463</b>	<b>60</b>	<b>406</b>	<b>23</b>	<b>222</b>	<b>360</b>			<b>549</b>
*	Oct 2021	22	0	17	1	2	30	6022.31	887	41
	Nov 2021	21	0	17	1	0	18	6022.11	885	31
	Dec 2021	17	0	14	0	0	39	6019.29	860	50
	Jan 2022	17	0	15	0	0	28	6017.79	847	38
	Feb 2022	28	0	26	1	0	25	6017.82	847	35
	Mar 2022	90	8	74	1	5	28	6022.31	887	50
	Apr 2022	183	23	138	2	21	27	6031.62	975	82
	May 2022	294	39	218	3	35	28	6046.19	1128	170
	Jun 2022	288	39	229	4	51	27	6058.59	1275	203
	Jul 2022	95	9	94	4	56	28	6059.11	1281	114
	Aug 2022	56	4	72	4	47	28	6058.61	1275	67
	Sep 2022	51	3	60	3	26	27	6059.01	1280	58
	<b>WY 2022</b>	<b>1162</b>	<b>125</b>	<b>974</b>	<b>24</b>	<b>243</b>	<b>331</b>			<b>937</b>
	Oct 2022	49	2	49	2	9	28	6059.82	1290	57
	Nov 2022	32	0	24	1	0	27	6059.56	1287	44
	Dec 2022	23	0	18	1	0	28	6058.77	1277	42
	Jan 2023	21	0	18	1	0	28	6057.92	1266	41
	Feb 2023	31	0	27	1	0	25	6058.04	1268	37
	Mar 2023	102	10	83	2	5	28	6061.85	1316	53
	Apr 2023	186	23	145	3	21	27	6069.00	1411	87
	May 2023	308	41	267	4	35	258	6066.84	1382	416
	Jun 2023	273	36	234	4	51	297	6057.68	1263	483
	Jul 2023	70	6	74	4	56	96	6050.92	1182	175
	Aug 2023	47	2	63	3	47	28	6049.67	1167	67
	Sep 2023	48	2	56	3	26	27	6049.74	1168	60
	<b>WY 2023</b>	<b>1190</b>	<b>124</b>	<b>1060</b>	<b>27</b>	<b>250</b>	<b>895</b>			<b>1562</b>
	Oct 2023	35	1	38	2	9	28	6049.72	1168	50

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	261	279	29	640	0	640	3587.72	4903	10615	650
H	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
I	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
S	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
T	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
O	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
R	May 2021	543	495	20	624	0	624	3560.57	4723	8366	649
I	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	663
C	Jul 2021	193	305	36	767	0	767	3553.88	4683	7866	764
A	Aug 2021	292	452	35	801	0	801	3548.96	4655	7511	785
L	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	317	419	21	481	0	481	3544.25	4628	7181	491
	Nov 2021	330	325	20	500	0	500	3541.61	4614	7000	517
	Dec 2021	270	314	16	600	0	600	3537.45	4591	6721	616
	Jan 2022	270	302	4	723	0	723	3531.39	4560	6327	743
	Feb 2022	392	373	4	639	0	639	3527.42	4540	6076	663
	Mar 2022	700	541	8	675	0	675	3525.30	4529	5945	706
	Apr 2022	1289	1002	12	601	0	601	3531.05	4558	6305	619
	May 2022	3058	2522	17	599	0	599	3556.64	4699	8070	613
	Jun 2022	4083	3432	34	628	0	628	3587.93	4904	10635	637
	Jul 2022	2151	1753	48	709	0	709	3597.97	4978	11557	726
	Aug 2022	628	653	49	758	0	758	3596.45	4967	11414	775
	Sep 2022	530	622	45	567	0	567	3596.54	4968	11423	582
	<b>WY 2022</b>	<b>14017</b>	<b>12258</b>	<b>279</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7688</b>
	Oct 2022	602	695	31	643	0	643	3596.74	4969	11442	657
	Nov 2022	486	591	30	642	0	642	3595.93	4963	11366	656
	Dec 2022	342	589	24	715	0	715	3594.44	4952	11227	726
	Jan 2023	368	584	7	857	0	857	3591.62	4931	10968	876
	Feb 2023	396	547	8	758	0	758	3589.39	4915	10765	780
	Mar 2023	656	652	13	801	0	801	3587.72	4903	10615	829
	Apr 2023	1124	998	21	713	0	713	3590.43	4922	10860	729
	May 2023	2609	2323	27	710	0	710	3605.96	5040	12328	719
	Jun 2023	3324	3019	47	745	0	745	3625.82	5205	14390	750
	Jul 2023	1373	1226	61	842	0	842	3628.54	5229	14690	858
	Aug 2023	510	572	60	900	0	900	3625.27	5200	14330	917
	Sep 2023	423	526	55	674	0	674	3623.55	5185	14143	689
	<b>WY 2023</b>	<b>12213</b>	<b>12322</b>	<b>385</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9184</b>
	Oct 2023	417	481	38	643	0	643	3621.83	5170	13958	655

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum Probable Inflow\*

### Hoover Dam - Lake Mead



— BUREAU OF —  
RECLAMATION

		Glen Release	Side Inflow	Evap	Total	Total	SNWP	Downstream	Bank	Reservoir Elev	EOM
	Date	(1000 Ac-Ft)	Glen to Hoover	Losses	Release	Release	Use	Requirements	Storage	End of Month	Storage
		(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
*	Nov 2020	640	56	42	714	12.0	11	718	656	1081.07	10100
H	Dec 2020	719	59	37	497	8.1	8	500	671	1083.72	10322
I	Jan 2021	763	72	30	593	9.6	11	616	683	1085.95	10510
S	Feb 2021	675	55	28	574	10.3	8	581	690	1087.26	10622
T	Mar 2021	700	33	31	945	15.4	15	936	675	1084.39	10378
O	Apr 2021	628	36	38	1057	17.8	22	1056	647	1079.30	9953
R	May 2021	624	28	43	1086	17.7	27	1077	616	1073.50	9480
I	Jun 2021	651	-14	51	956	16.1	32	945	592	1068.77	9102
C	Jul 2021	767	95	63	862	14.0	31	854	586	1067.65	9014
A	Aug 2021	801	89	67	766	12.5	31	766	587	1067.96	9038
L	Sep 2021	622	50	55	616	10.4	24	614	586	1067.68	9016
	<b>WY 2021</b>	<b>8229</b>	<b>593</b>	<b>529</b>	<b>9396</b>		<b>241</b>	<b>9396</b>			
*	Oct 2021	481	81	40	581	9.4	17	585	581	1066.77	8945
	Nov 2021	500	83	40	646	10.9	13	646	574	1065.37	8836
	Dec 2021	600	80	34	440	7.2	7	440	586	1067.74	9021
	Jan 2022	723	98	28	545	8.9	11	545	601	1070.55	9243
	Feb 2022	639	116	26	539	9.7	9	539	612	1072.68	9413
	Mar 2022	675	151	30	901	14.7	16	901	604	1071.26	9300
	Apr 2022	601	89	36	945	15.9	17	945	586	1067.59	9009
	May 2022	599	70	41	927	15.1	21	927	566	1063.72	8708
	Jun 2022	628	43	49	887	14.9	30	887	548	1060.10	8431
	Jul 2022	709	82	61	779	12.7	34	779	543	1059.07	8353
	Aug 2022	758	84	64	747	12.1	35	747	543	1059.02	8349
	Sep 2022	567	71	53	663	11.1	31	663	536	1057.66	8247
	<b>WY 2022</b>	<b>7480</b>	<b>1047</b>	<b>503</b>	<b>8601</b>		<b>243</b>	<b>8606</b>			
	Oct 2022	643	68	38	509	8.3	26	509	544	1059.37	8375
	Nov 2022	642	67	39	629	10.6	16	629	546	1059.69	8399
	Dec 2022	715	55	33	543	8.8	11	543	557	1061.95	8571
	Jan 2023	857	92	28	536	8.7	13	536	580	1066.46	8921
	Feb 2023	758	109	26	545	9.8	11	545	597	1069.87	9189
	Mar 2023	801	135	29	909	14.8	18	909	596	1069.63	9170
	Apr 2023	713	79	36	981	16.5	21	981	581	1066.69	8939
	May 2023	710	43	41	953	15.5	25	953	565	1063.47	8688
	Jun 2023	745	23	49	921	15.5	35	921	550	1060.57	8466
	Jul 2023	842	77	61	800	13.0	40	800	551	1060.78	8483
	Aug 2023	900	82	65	769	12.5	42	769	558	1062.09	8582
	Sep 2023	674	73	54	679	11.4	37	679	556	1061.81	8561
	<b>WY 2023</b>	<b>9000</b>	<b>902</b>	<b>499</b>	<b>8773</b>		<b>295</b>	<b>8773</b>			
	Oct 2023	643	58	39	517	8.4	31	517	563	1063.20	8668

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	714	-34	11	560	0	560	9.4	639.83	1613
H	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
I	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
S	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
T	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
O	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
R	May 2021	1086	-10	22	1055	0	1055	17.2	642.32	1680
I	Jun 2021	956	-2	25	901	0	901	15.1	643.33	1708
C	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
A	Aug 2021	766	-6	23	731	0	731	11.9	643.54	1713
L	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	581	-3	15	638	0	658	10.7	634.42	1471
	Nov 2021	646	-23	10	546	0	546	9.2	637.00	1538
	Dec 2021	440	-11	9	376	0	376	6.1	638.70	1583
	Jan 2022	545	-17	10	435	0	435	7.1	641.80	1666
	Feb 2022	539	-9	10	520	0	520	9.4	641.80	1666
	Mar 2022	901	-7	13	847	0	847	13.8	643.05	1700
	Apr 2022	945	-8	17	922	0	922	15.5	643.00	1699
	May 2022	927	-8	22	897	0	897	14.6	643.00	1699
	Jun 2022	887	-13	25	849	0	849	14.3	643.00	1699
	Jul 2022	779	-10	25	771	0	771	12.5	642.00	1671
	Aug 2022	747	-11	23	713	0	713	11.6	642.00	1671
	Sep 2022	663	-11	18	688	0	688	11.6	640.01	1617
	<b>WY 2022</b>	<b>8601</b>	<b>-130</b>	<b>197</b>	<b>8202</b>	<b>0</b>	<b>8221</b>			
	Oct 2022	509	-11	15	666	0	666	10.8	633.00	1434
	Nov 2022	629	-23	10	545	0	545	9.2	635.00	1486
	Dec 2022	543	-11	9	405	0	405	6.6	639.51	1604
	Jan 2023	536	-17	10	447	0	447	7.3	641.80	1666
	Feb 2023	545	-9	10	526	0	526	9.5	641.80	1666
	Mar 2023	909	-7	13	854	0	854	13.9	643.05	1700
	Apr 2023	981	-8	17	958	0	958	16.1	643.00	1699
	May 2023	953	-8	22	923	0	923	15.0	643.00	1699
	Jun 2023	921	-13	25	882	0	882	14.8	643.00	1699
	Jul 2023	800	-10	25	792	0	792	12.9	642.00	1671
	Aug 2023	769	-11	23	735	0	735	12.0	642.00	1671
	Sep 2023	679	-11	18	703	0	703	11.8	640.01	1617
	<b>WY 2023</b>	<b>8773</b>	<b>-138</b>	<b>197</b>	<b>8437</b>	<b>0</b>	<b>8437</b>			
	Oct 2023	517	-11	15	674	0	674	11.0	633.00	1434

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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)
*	Nov 2020	560	20	9	357	6.0	92	123	447.50	571	92	1.5
H	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
I	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
S	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
T	Mar 2021	920	1	9	663	10.8	99	149	447.28	566	179	2.9
O	Apr 2021	1028	0	11	728	12.2	102	163	448.04	581	167	2.8
R	May 2021	1055	-2	13	746	12.1	107	168	448.51	590	145	2.4
I	Jun 2021	901	21	15	706	11.9	103	87	448.55	591	151	2.5
C	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	147	2.4
A	Aug 2021	731	16	17	586	9.5	100	48	447.51	571	121	2.0
L	Sep 2021	756	5	15	516	8.7	97	106	448.49	590	116	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>1519</b>	
*	Oct 2021	658	18	12	421	6.8	99	139	448.37	587	66	1.1
	Nov 2021	546	18	9	346	5.8	96	125	447.50	570	91	1.5
	Dec 2021	376	20	7	216	3.5	85	103	446.50	552	90	1.5
	Jan 2022	435	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	847	7	9	613	10.0	99	121	446.70	555	147	2.4
	Apr 2022	922	11	11	700	11.8	57	117	448.70	593	147	2.5
	May 2022	897	9	13	682	11.1	72	126	448.70	593	110	1.8
	Jun 2022	849	6	16	688	11.6	70	68	448.70	593	116	2.0
	Jul 2022	771	15	17	663	10.8	73	35	448.00	580	123	2.0
	Aug 2022	713	15	17	602	9.8	73	35	447.50	571	101	1.6
	Sep 2022	688	14	15	510	8.6	70	95	447.50	570	99	1.7
	<b>WY 2022</b>	<b>8221</b>	<b>157</b>	<b>140</b>	<b>6140</b>		<b>895</b>	<b>1117</b>			<b>1353</b>	
	Oct 2022	666	21	12	480	7.8	73	117	447.50	571	89	1.4
	Nov 2022	545	18	9	364	6.1	70	114	447.50	571	115	1.9
	Dec 2022	405	20	7	257	4.2	94	82	446.50	552	110	1.8
	Jan 2023	447	17	6	310	5.0	99	45	446.50	552	138	2.2
	Feb 2023	526	7	8	401	7.2	3	115	446.50	552	124	2.2
	Mar 2023	854	7	9	619	10.1	99	123	446.70	555	147	2.4
	Apr 2023	958	11	11	706	11.9	85	120	448.70	593	147	2.5
	May 2023	923	9	13	694	11.3	84	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	792	15	17	680	11.1	72	39	448.00	580	123	2.0
	Aug 2023	735	15	17	620	10.1	72	39	447.50	571	101	1.6
	Sep 2023	703	14	15	524	8.8	70	98	447.50	570	99	1.7
	<b>WY 2023</b>	<b>8437</b>	<b>161</b>	<b>139</b>	<b>6359</b>		<b>904</b>	<b>1090</b>			<b>1419</b>	
	Oct 2023	674	21	12	486	7.9	72	119	447.50	571	89	1.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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
*	Nov 2020	714	12.0	1081.07	10100	-68	437.77	1303.0	275.5	85	385.6
H	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
I	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
S	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
T	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
O	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
R	May 2021	1086	17.7	1073.50	9480	-473	423.99	1042.9	433.7	69	399.5
I	Jun 2021	956	16.1	1068.77	9102	-378	419.04	1451.0	366.8	100	383.7
C	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
A	Aug 2021	766	12.5	1067.96	9038	24	421.53	1322.1	286.1	93	373.4
L	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	581	9.4	1066.77	8945	-71	422.27	1228.0	216.2	87	372.4
	Nov 2021	646	10.9	1065.37	8836	-109	420.97	938.0	243.8	67	377.4
	Dec 2021	440	7.2	1067.74	9021	185	419.99	957.0	164.7	68	374.0
	Jan 2022	545	8.9	1070.55	9243	222	421.04	962.9	203.2	67	373.0
	Feb 2022	539	9.7	1072.68	9413	170	422.38	1004.1	203.8	68	378.4
	Mar 2022	901	14.7	1071.26	9300	-113	421.72	1078.4	345.4	74	383.2
	Apr 2022	945	15.9	1067.59	9009	-291	418.64	1078.0	362.8	75	383.8
	May 2022	927	15.1	1063.72	8708	-301	415.03	1038.2	350.5	74	378.1
	Jun 2022	887	14.9	1060.10	8431	-277	408.61	1366.9	324.8	100	366.1
	Jul 2022	779	12.7	1059.07	8353	-78	406.64	1358.1	285.0	100	365.8
	Aug 2022	747	12.1	1059.02	8349	-4	406.42	1357.6	271.9	100	363.9
	Sep 2022	663	11.1	1057.66	8247	-102	406.37	1346.1	239.0	100	360.3
<b>WY 2022</b>		<b>8601</b>							<b>3211.2</b>		
	Oct 2022	509	8.3	1059.37	8375	129	411.14	1060.1	189.1	78	371.4
	Nov 2022	629	10.6	1059.69	8399	24	413.77	1147.6	230.4	84	366.3
	Dec 2022	543	8.8	1061.95	8571	172	412.88	1169.9	197.3	85	363.4
	Jan 2023	536	8.7	1066.46	8921	349	414.06	1197.5	194.8	84	363.7
	Feb 2023	545	9.8	1069.87	9189	268	418.94	990.1	204.9	68	376.0
	Mar 2023	909	14.8	1069.63	9170	-19	418.98	1140.0	344.9	79	379.6
	Apr 2023	981	16.5	1066.69	8939	-231	416.08	1247.2	366.9	88	373.9
	May 2023	953	15.5	1063.47	8688	-250	413.63	1146.3	358.5	82	376.0
	Jun 2023	921	15.5	1060.57	8466	-222	410.70	1111.7	343.7	81	373.3
	Jul 2023	800	13.0	1060.78	8483	16	407.71	1372.7	294.2	100	367.8
	Aug 2023	769	12.5	1062.09	8582	100	408.79	1383.7	282.4	100	367.3
	Sep 2023	679	11.4	1061.81	8561	-21	409.94	1381.4	247.4	100	364.5
<b>WY 2023</b>		<b>8773</b>							<b>3254.6</b>		
	Oct 2023	517	8.4	1063.20	8668	107	412.77	1393.2	192.3	100	371.7

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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
*	Nov 2020	560	9.4	639.83	1613	110	140.14	168.3	67.8	66	121.2
H	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
I	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
S	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
T	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
O	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
R	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
I	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
C	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
A	Aug 2021	731	11.9	643.54	1713	6	144.21	255.0	93.7	100	128.2
L	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	638	10.7	634.42	1471	-95	134.72	215.5	80.2	85	125.6
	Nov 2021	546	9.2	637.00	1538	67	134.20	164.9	66.0	65	120.9
	Dec 2021	376	6.1	638.70	1583	45	137.72	187.6	46.6	74	124.1
	Jan 2022	435	7.1	641.80	1666	83	139.67	159.6	54.8	63	125.8
	Feb 2022	520	9.4	641.80	1666	0	140.22	176.7	65.6	69	126.3
	Mar 2022	847	13.8	643.05	1700	34	139.11	255.0	106.2	100	125.3
	Apr 2022	922	15.5	643.00	1699	-2	139.11	255.0	115.6	100	125.3
	May 2022	897	14.6	643.00	1699	0	139.40	255.0	112.6	100	125.6
	Jun 2022	849	14.3	643.00	1699	0	139.51	255.0	106.7	100	125.7
	Jul 2022	771	12.5	642.00	1671	-27	139.64	255.0	97.0	100	125.8
	Aug 2022	713	11.6	642.00	1671	0	139.50	255.0	89.7	100	125.7
	Sep 2022	688	11.6	640.01	1617	-54	138.52	255.0	85.8	100	124.8
	<b>WY 2022</b>	<b>8202</b>							<b>1026.7</b>		
	Oct 2022	666	10.8	633.00	1434	-183	134.31	227.0	80.6	89	121.0
	Nov 2022	545	9.2	635.00	1486	51	132.49	159.8	65.0	63	119.4
	Dec 2022	405	6.6	639.51	1604	118	136.90	154.7	49.9	61	123.3
	Jan 2023	447	7.3	641.80	1666	62	139.98	156.3	56.4	61	126.1
	Feb 2023	526	9.5	641.80	1666	0	140.17	156.6	66.4	61	126.3
	Mar 2023	854	13.9	643.05	1700	34	139.07	194.1	107.1	76	125.3
	Apr 2023	958	16.1	643.00	1699	-2	138.90	249.9	119.9	98	125.1
	May 2023	923	15.0	643.00	1699	0	139.25	255.0	115.8	100	125.5
	Jun 2023	882	14.8	643.00	1699	0	139.31	255.0	110.7	100	125.5
	Jul 2023	792	12.9	642.00	1671	-27	139.52	255.0	99.5	100	125.7
	Aug 2023	735	12.0	642.00	1671	0	139.36	255.0	92.3	100	125.6
	Sep 2023	703	11.8	640.01	1617	-54	138.43	255.0	87.7	100	124.7
	<b>WY 2023</b>	<b>8437</b>							<b>1051.4</b>		
	Oct 2023	674	11.0	633.00	1434	-183	134.26	227.0	81.6	89	121.0

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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
*	Nov 2020	357	6.0	447.50	571	-5	81.16	90.0	23.9	75	66.9
H	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
I	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
S	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
T	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
O	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
R	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
I	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
C	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
A	Aug 2021	586	9.5	447.51	571	-14	79.33	120.0	40.7	100	69.4
L	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	421	6.8	448.37	587	-2	82.15	96.8	29.7	81	70.6
	Nov 2021	346	5.8	447.50	570	-17	76.72	90.0	22.6	75	65.2
	Dec 2021	216	3.5	446.50	552	-19	74.82	110.3	13.3	92	61.4
	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>6140</b>							<b>403.6</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>		
	Oct 2023	486	7.9	447.50	571	0	76.24	91.0	32.1	76	66.0

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## November 2021 24-Month Study

Maximum 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
* Nov 2020		275	20	5	7	3	1
H Dec 2020		304	24	5	7	3	3
I Jan 2021		319	24	5	6	3	3
S Feb 2021		278	21	5	6	2	3
T 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>
O Apr 2021		254	19	20	28	17	3
R May 2021		249	36	24	32	20	3
I Jun 2021		260	30	20	30	19	3
C Jul 2021		303	24	27	34	20	3
A Aug 2021		310	37	25	34	20	3
L 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		183	29	14	22	7	2
Nov 2021		184	17	4	5	3	4
Dec 2021		218	17	4	6	3	4
Jan 2022		260	17	4	6	3	4
Feb 2022		228	16	3	5	3	3
Mar 2022		238	26	4	7	4	3
<b>Winter 2022</b>		<b>1311</b>	<b>122</b>	<b>33</b>	<b>51</b>	<b>24</b>	<b>21</b>
Apr 2022		213	25	8	16	7	1
May 2022		221	31	51	86	23	7
Jun 2022		247	96	20	37	22	8
Jul 2022		292	36	21	30	19	8
Aug 2022		315	36	26	32	17	7
Sep 2022		236	37	27	32	16	3
<b>Summer 2022</b>		<b>1522</b>	<b>261</b>	<b>154</b>	<b>233</b>	<b>105</b>	<b>33</b>
Oct 2022		266	43	27	32	9	6
Nov 2022		265	49	16	21	11	5
Dec 2022		295	65	33	42	21	5
Jan 2023		352	65	25	32	16	5
Feb 2023		310	58	16	21	11	4
Mar 2023		326	56	14	19	10	4
<b>Winter 2023</b>		<b>1814</b>	<b>336</b>	<b>131</b>	<b>166</b>	<b>77</b>	<b>29</b>
Apr 2023		290	54	19	29	16	5
May 2023		295	26	51	75	23	6
Jun 2023		320	96	31	46	22	8
Jul 2023		371	27	30	38	21	8
Aug 2023		396	36	28	33	17	6
Sep 2023		296	36	27	32	16	5
<b>Summer 2023</b>		<b>1671</b>	<b>238</b>	<b>159</b>	<b>220</b>	<b>99</b>	<b>32</b>
Oct 2023		281	27	22	26	9	5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2021 24-Month Study

Maximum 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	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont
	KAF	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>										
Nov 2021	941	621	814	17141	19517	18675	38192	941	621	814	2376	17141	18675	38192	3810	646	0	22.4
Dec 2021	953	614	816	17322	19705	18784	38490	953	614	816	2383	17322	18784	38490	4580	440	0	22.3
Jan 2022	981	610	841	17601	20034	18599	38633	981	610	841	2433	17601	18599	38633	5350	545	0	22.1
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2022	981	610	841	17601	20034	18599	38633	958	539	605	2101	17601	18599	38301	5350	545	0	22.1
Feb 2022	1,007	607	855	17995	20463	18377	38840	981	537	618	2135	17995	18377	38507	1500	539	0	22.1
Mar 2022	1,002	599	854	18246	20701	18207	38908	972	530	617	2118	18246	18207	38571	1500	901	0	22.0
Apr 2022	922	576	814	18377	20688	18320	39008	886	506	570	1962	18377	18320	38659	1500	945	0	22.4
May 2022	818	509	726	18017	20070	18611	38681	774	444	459	1677	18017	18611	38305	1500	927	0	24.3
Jun 2022	534	475	573	16252	17835	18912	36747	474	400	268	1142	16252	18912	36306	1500	887	0	27.2
Jul 2022	364	214	427	13687	14692	19189	33881	285	109	66	461	13687	19189	33338	1500	779	0	28.4
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2022	105	110	420	12765	13400	19267	32667	105	110	420	635	12765	19267	32667	1500	747	0	28.2
Sep 2022	111	113	426	12908	13557	19271	32829	111	113	426	650	12908	19271	32829	2270	663	0	27.9
Oct 2022	164	150	421	12899	13634	19373	33007	164	150	421	735	12899	19373	33007	3040	509	0	27.8
Nov 2022	227	195	411	12880	13714	19245	32959	227	195	411	834	12880	19245	32959	3810	629	0	27.7
Dec 2022	314	219	414	12956	13903	19221	33124	314	219	414	947	12956	19221	33124	4580	543	0	27.6
Jan 2023	467	305	424	13095	14291	19049	33340	467	305	424	1197	13095	19049	33340	5350	536	0	27.5
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2023	467	305	424	13095	14291	19049	33340	296	257	91	644	13095	19049	32787	5350	536	0	27.5
Feb 2023	613	366	435	13354	14768	18699	33468	443	319	101	863	13354	18699	32917	1500	545	0	27.4
Mar 2023	736	398	434	13557	15124	18431	33556	567	352	99	1018	13557	18431	33006	1500	909	0	27.3
Apr 2023	783	407	385	13707	15282	18450	33733	612	362	43	1018	13707	18450	33175	1500	981	0	27.4
May 2023	801	378	290	13462	14932	18681	33613	626	338	-75	889	13462	18681	33032	1500	953	0	28.9
Jun 2023	567	322	319	11994	13203	18932	32135	379	272	-85	566	11994	18932	31491	1500	921	0	31.0
Jul 2023	398	119	438	9932	10886	19154	30040	191	43	-22	212	9932	19154	29297	1500	800	0	31.4
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2023	229	75	519	9632	10455	19137	29593	229	75	519	824	9632	19137	29593	1500	769	0	31.1
Sep 2023	257	82	534	9992	10865	19038	29903	257	82	534	873	9992	19038	29903	2270	679	0	30.7
Oct 2023	318	120	533	10179	11150	19059	30210	318	120	533	971	10179	19059	30210	3040	517	0	30.4

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