

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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The operation of Lake Powell and Lake Mead in this August 2019 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 2019 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2018 24-Month Study projections of the January 1, 2019, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2019.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2019 is the Upper Elevation Balancing Tier. With an 8.23 million acre-feet (maf) release from Lake Powell in water year 2019, the April 2019 24-Month Study projected the end of water year elevation at Lake Powell to be above 3,575 feet and the end of water year elevation at Lake Mead to be below 1,075 feet. Therefore, in accordance with Section 6.B.4 of the Interim Guidelines, Lake Powell operations shifted to balancing releases for the remainder of water year 2019. Under Section 6.B.4, the contents of Lake Powell and Lake Mead will be balanced by the end of the water year, but not more than 9.0 maf and not less than 8.23 maf shall be released from Lake Powell. Based on the most probable inflow forecast, this August 24-Month Study projects a balancing release of 9.0 maf in water year 2019.

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 2019.

The August 2019 24-Month Study projects the January 1, 2020 Lake Powell elevation to be below the 2019 Equalization Elevation of 3,657 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell's operations in water year 2020 will be governed by the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 maf and the potential for an April adjustment to equalization or balancing releases in April 2020. Based on the most probable inflow forecast, this August 24-Month Study projects an annual release of 8.23 maf in water year 2020.

The August 2019 24-Month Study projects the January 1, 2020 Lake Mead elevation to be above 1,075 feet and below 1,090 feet. 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 2020. 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 2020.

The 2020 operational tier determinations for Lake Powell and Lake Mead will be documented in the 2020 AOP, which is currently in development.

The Interim Guidelines are available for download at: <https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The 2019 AOP is available for download at: <https://www.usbr.gov/lc/region/g4000/aop/AOP19.pdf>.

The Colorado River DCPs are available for download at: <https://www.usbr.gov/dcp/finaldocs.html>.

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows: Observed unregulated inflow into Lake Powell for the month of July was 2.451 maf or 225 percent of the 30-year average from 1981 to 2010. The August unregulated inflow forecast for Lake Powell is 0.700 maf or 140 percent of the 30-year average. The preliminary observed 2019 April through July unregulated inflow is 10.410 maf or 145 percent of average.

In this study, the calendar year 2019 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 0.548 maf. The calendar year 2019 diversion for the Central Arizona Project (CAP) is forecasted to be 1.393 maf. Consumptive use for Nevada above Hoover (SNWP Use) is forecasted to be 0.218 maf for calendar year 2019.

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 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 Cheri Woodward at (702) 293-8101.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2019 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir



	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)
*	Aug 2018	50	2	75	1	76	6500.10	299
H	Sep 2018	30	2	7	58	65	6495.11	262
WY 2018		1397	15	856	528	1382		
I	Oct 2018	42	1	45	20	65	6491.62	238
S	Nov 2018	38	1	60	0	60	6488.29	216
T	Dec 2018	30	1	61	1	61	6483.19	184
O	Jan 2019	28	1	61	0	61	6476.81	150
R	Feb 2019	26	0	55	1	56	6470.41	120
I	Mar 2019	37	0	61	0	61	6464.13	95
C	Apr 2019	114	1	71	0	71	6474.10	137
A	May 2019	167	1	98	0	98	6486.46	204
L	Jun 2019	337	2	107	171	278	6494.89	261
*	Jul 2019	184	3	86	39	125	6502.48	317
	Aug 2019	72	2	74	0	74	6501.96	314
	Sep 2019	46	2	37	35	71	6498.35	287
WY 2019		1121	15	817	266	1083		
	Oct 2019	46	1	71	0	71	6494.76	261
	Nov 2019	44	1	68	0	68	6491.14	236
	Dec 2019	37	1	71	0	71	6485.85	201
	Jan 2020	32	1	71	0	71	6479.08	162
	Feb 2020	30	0	66	0	66	6471.43	125
	Mar 2020	48	0	67	0	67	6466.65	105
	Apr 2020	75	1	75	0	75	6466.51	105
	May 2020	155	1	97	8	105	6477.58	154
	Jun 2020	275	2	102	24	126	6500.35	302
	Jul 2020	170	3	101	34	135	6504.49	334
	Aug 2020	68	2	102	3	105	6499.46	295
	Sep 2020	45	2	21	75	95	6492.18	243
WY 2020		1025	14	911	144	1055		
	Oct 2020	48	1	63	0	63	6489.73	227
	Nov 2020	42	1	60	0	60	6487.00	209
	Dec 2020	32	1	61	0	61	6482.08	178
	Jan 2021	30	1	61	0	61	6476.07	147
	Feb 2021	28	0	56	0	56	6469.84	118
	Mar 2021	53	0	65	0	65	6466.69	106
	Apr 2021	85	1	87	0	87	6466.03	103
	May 2021	164	1	97	8	105	6478.92	161
	Jun 2021	299	2	102	68	170	6498.59	288
	Jul 2021	178	3	102	30	132	6504.15	331

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2019 24-Month Study

Most Probable Inflow*

Flaming Gorge Reservoir



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)
* Aug 2018	42	68	13	124	0	124	139	6032.67	3453	142
H Sep 2018	17	52	11	119	0	119	136	6030.75	3378	132
WY 2018	1594	1580	82	1608	7	1616				2638
I Oct 2018	52	75	7	99	0	99	135	6029.99	3349	131
S Nov 2018	41	63	4	93	0	93	133	6029.15	3316	121
T Dec 2018	29	60	2	124	0	124	131	6027.49	3253	153
O Jan 2019	34	68	2	124	0	124	129	6026.01	3198	154
R Feb 2019	34	63	2	112	0	112	127	6024.69	3149	143
I Mar 2019	74	99	3	58	0	58	128	6025.67	3185	128
C Apr 2019	240	198	5	71	0	71	133	6028.79	3303	341
A May 2019	252	183	8	99	0	99	136	6030.71	3376	568
L Jun 2019	460	400	11	215	100	315	139	6032.55	3448	950
* Jul 2019	227	169	14	100	0	100	141	6033.89	3502	373
Aug 2019	85	87	13	116	0	116	139	6032.87	3461	148
Sep 2019	56	81	12	131	0	131	137	6031.39	3403	148
WY 2019	1585	1547	82	1339	100	1439				3358
Oct 2019	60	85	7	76	0	76	137	6031.41	3404	106
Nov 2019	60	84	4	71	0	71	137	6031.65	3413	104
Dec 2019	40	74	2	169	0	169	134	6029.24	3320	196
Jan 2020	46	85	2	169	0	169	130	6027.05	3237	193
Feb 2020	49	85	2	158	0	158	127	6025.12	3165	182
Mar 2020	98	117	3	78	0	78	129	6026.05	3199	149
Apr 2020	135	135	5	76	0	76	131	6027.44	3251	286
May 2020	230	180	8	78	0	78	134	6029.79	3341	608
Jun 2020	340	191	10	242	0	242	132	6028.23	3281	682
Jul 2020	200	165	14	113	0	113	134	6029.20	3318	188
Aug 2020	77	114	13	123	0	123	133	6028.64	3297	144
Sep 2020	50	100	11	119	0	119	132	6027.89	3268	134
WY 2020	1385	1415	80	1474	0	1474				2974
Oct 2020	55	70	7	68	0	68	131	6027.77	3264	96
Nov 2020	50	67	3	65	0	65	131	6027.72	3262	95
Dec 2020	35	64	2	117	0	117	129	6026.34	3210	142
Jan 2021	40	72	2	117	0	117	127	6025.12	3165	142
Feb 2021	45	72	2	106	0	106	126	6024.20	3131	133
Mar 2021	102	115	3	61	0	61	128	6025.51	3179	138
Apr 2021	134	136	5	60	0	60	131	6027.34	3248	275
May 2021	245	186	8	65	0	65	135	6030.18	3356	597
Jun 2021	390	260	11	238	21	259	135	6029.95	3347	679
Jul 2021	210	165	14	124	0	124	136	6030.64	3374	224

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2019 24-Month Study

Most Probable Inflow*

Taylor Park Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Aug 2018	3	13	9305.51	63
H	Sep 2018	3	8	9301.71	58
WY 2018		88	108		
I	Oct 2018	5	3	9302.60	59
S	Nov 2018	3	3	9302.61	59
T	Dec 2018	4	3	9302.74	59
O	Jan 2019	4	3	9302.92	59
R	Feb 2019	3	3	9303.16	60
I	Mar 2019	5	4	9303.75	60
C	Apr 2019	10	7	9306.14	64
A	May 2019	21	26	9302.64	59
L	Jun 2019	68	38	9320.92	89
*	Jul 2019	47	32	9328.49	103
	Aug 2019	15	24	9324.14	95
	Sep 2019	9	21	9317.77	83
WY 2019		193	168		
	Oct 2019	8	10	9316.87	81
	Nov 2019	7	6	9317.47	82
	Dec 2019	6	6	9317.39	82
	Jan 2020	5	6	9316.73	81
	Feb 2020	5	6	9316.42	81
	Mar 2020	5	6	9315.75	79
	Apr 2020	7	10	9313.99	76
	May 2020	29	18	9320.26	87
	Jun 2020	40	24	9328.61	103
	Jul 2020	16	24	9324.53	95
	Aug 2020	9	19	9319.16	85
	Sep 2020	7	18	9313.09	75
WY 2020		144	152		
	Oct 2020	6	9	9311.53	72
	Nov 2020	5	7	9310.06	70
	Dec 2020	5	5	9310.06	70
	Jan 2021	4	5	9309.90	70
	Feb 2021	4	4	9309.58	69
	Mar 2021	4	7	9308.11	67
	Apr 2021	9	10	9307.63	66
	May 2021	28	13	9316.92	81
	Jun 2021	42	19	9329.23	105
	Jul 2021	20	23	9327.75	102

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Blue Mesa Reservoir



	UnReg	Regulated	Evap	Power	Bypass	Total	Reservoir Elev	Live
Date	Inflow	Inflow	Losses	Release	Release	Release	End of Month	Storage
	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Aug 2018	19	28	1	93	0	93	7453.77	334
H Sep 2018	12	17	1	30	39	68	7444.44	282
WY 2018	433	453	7	856	39	895		
I Oct 2018	23	22	0	46	11	56	7437.59	248
S Nov 2018	22	21	0	19	0	19	7438.08	250
T Dec 2018	20	19	0	21	0	21	7437.82	249
O Jan 2019	20	20	0	17	0	17	7438.40	252
R Feb 2019	20	20	0	23	0	23	7437.59	248
I Mar 2019	28	27	0	25	0	25	7438.01	250
C Apr 2019	121	118	0	33	0	33	7453.91	335
A May 2019	214	218	1	86	18	105	7471.68	447
L Jun 2019	471	444	1	124	70	194	7504.14	696
* Jul 2019	282	266	2	87	51	138	7518.61	823
Aug 2019	88	97	1	108	30	138	7513.89	780
Sep 2019	53	65	1	104	0	104	7509.29	740
WY 2019	1361	1336	8	692	180	871		
Oct 2019	47	49	1	84	0	84	7505.11	704
Nov 2019	38	37	0	77	0	77	7500.28	664
Dec 2019	33	33	0	112	0	112	7490.43	585
Jan 2020	30	31	0	54	0	54	7487.44	562
Feb 2020	26	27	0	51	0	51	7484.25	537
Mar 2020	38	39	0	51	0	51	7482.54	525
Apr 2020	73	76	1	63	0	63	7484.23	537
May 2020	220	209	1	202	56	258	7477.40	487
Jun 2020	275	259	1	68	0	68	7501.86	677
Jul 2020	97	105	1	63	0	63	7506.70	717
Aug 2020	54	64	1	72	0	72	7505.66	709
Sep 2020	39	50	1	76	0	76	7502.35	681
WY 2020	970	978	8	973	56	1029		
Oct 2020	39	41	1	50	0	50	7501.25	672
Nov 2020	31	34	0	49	0	49	7499.35	656
Dec 2020	26	26	0	92	0	92	7491.09	590
Jan 2021	24	25	0	67	0	67	7485.51	547
Feb 2021	22	23	0	49	0	49	7481.97	520
Mar 2021	36	38	0	0	57	57	7479.32	501
Apr 2021	77	78	1	0	84	84	7478.39	494
May 2021	221	206	1	6	232	239	7473.62	461
Jun 2021	261	238	1	59	0	59	7497.15	638
Jul 2021	117	120	1	75	0	75	7502.42	681

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Morrow Point Reservoir



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)
* Aug 2018	19	93	0	93	94	0	94	7153.96	112
H Sep 2018	14	68	2	70	84	0	84	7135.77	98
WY 2018	460	895	27	922	935	0	937		
I Oct 2018	24	56	1	57	56	0	56	7136.92	99
S Nov 2018	23	19	1	20	13	0	15	7143.47	104
T Dec 2018	21	21	1	22	18	0	18	7147.95	107
O Jan 2019	21	17	1	17	18	0	18	7147.00	107
R Feb 2019	20	23	0	24	23	0	23	7147.57	107
I Mar 2019	29	25	1	26	26	0	26	7146.90	107
C Apr 2019	136	33	15	47	41	0	41	7155.16	113
A May 2019	240	105	25	130	127	0	131	7154.68	113
L Jun 2019	512	194	41	235	186	0	234	7155.10	113
* Jul 2019	295	138	13	150	151	0	151	7154.18	112
Aug 2019	93	138	5	143	143	0	143	7153.73	112
Sep 2019	57	104	4	108	108	0	108	7153.73	112
WY 2019	1470	871	109	980	912	0	966		
Oct 2019	50	84	3	87	87	0	87	7153.73	112
Nov 2019	41	77	3	80	80	0	80	7153.73	112
Dec 2019	36	112	3	115	115	0	115	7153.73	112
Jan 2020	33	54	3	57	57	0	57	7153.73	112
Feb 2020	29	51	3	54	54	0	54	7153.73	112
Mar 2020	42	51	4	55	55	0	55	7153.73	112
Apr 2020	86	63	13	76	76	0	76	7153.73	112
May 2020	245	258	25	283	283	0	283	7153.73	112
Jun 2020	295	68	20	88	88	0	88	7153.73	112
Jul 2020	104	63	7	70	70	0	70	7153.73	112
Aug 2020	57	72	3	75	75	0	75	7153.73	112
Sep 2020	42	76	3	79	79	0	79	7153.73	112
WY 2020	1060	1029	90	1119	1119	0	1119		
Oct 2020	42	50	3	53	53	0	53	7153.73	112
Nov 2020	34	49	2	51	51	0	51	7153.73	112
Dec 2020	28	92	2	94	94	0	94	7153.73	112
Jan 2021	27	67	2	70	70	0	70	7153.73	112
Feb 2021	25	49	3	52	52	0	52	7153.73	112
Mar 2021	40	57	4	61	61	0	61	7153.73	112
Apr 2021	88	84	11	95	95	0	95	7153.73	112
May 2021	247	239	26	265	265	0	265	7153.73	112
Jun 2021	281	59	20	79	79	0	79	7153.73	112
Jul 2021	123	75	6	81	81	0	81	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*
Crystal Reservoir



	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)
*	Aug 2018	21	94	2	96	98	0	98	6744.83	15	65	36
H	Sep 2018	15	84	1	85	87	0	87	6737.22	13	59	33
	WY 2018	505	937	45	982	959	26	985			438	553
I	Oct 2018	27	56	3	59	55	0	55	6751.87	17	33	24
S	Nov 2018	26	15	4	19	21	0	21	6743.11	14	1	19
T	Dec 2018	25	18	4	22	21	0	22	6745.32	15	0	20
O	Jan 2019	25	18	4	22	19	3	22	6746.57	15	1	20
R	Feb 2019	24	23	3	27	9	17	26	6748.26	16	1	25
I	Mar 2019	34	26	5	32	30	0	30	6752.77	17	0	29
C	Apr 2019	150	41	15	55	55	0	55	6753.29	17	26	29
A	May 2019	264	131	24	155	108	31	153	6759.30	19	47	105
L	Jun 2019	558	234	46	280	115	73	282	6753.12	17	51	231
*	Jul 2019	321	151	26	177	121	57	178	6746.79	15	61	124
	Aug 2019	103	143	10	153	136	15	151	6753.04	17	65	86
	Sep 2019	65	108	8	116	116	0	116	6753.04	17	55	61
	WY 2019	1621	966	151	1117	807	198	1112			341	774
	Oct 2019	57	87	7	94	94	0	94	6753.04	17	30	64
	Nov 2019	47	80	6	86	86	0	86	6753.04	17	0	86
	Dec 2019	41	115	5	120	120	0	120	6753.04	17	0	120
	Jan 2020	39	57	6	63	63	0	63	6753.04	17	0	63
	Feb 2020	33	54	4	58	0	58	58	6753.04	17	0	58
	Mar 2020	48	55	6	61	47	15	61	6753.04	17	5	56
	Apr 2020	99	76	13	89	89	0	89	6753.04	17	42	47
	May 2020	280	283	35	318	134	184	318	6753.04	17	62	256
	Jun 2020	330	88	35	123	123	0	123	6753.04	17	61	62
	Jul 2020	116	70	12	82	82	0	82	6753.04	17	65	17
	Aug 2020	64	75	7	82	82	0	82	6753.04	17	65	17
	Sep 2020	46	79	4	83	83	0	83	6753.04	17	55	28
	WY 2020	1200	1119	140	1259	1002	256	1259			385	874
	Oct 2020	46	53	5	58	58	0	58	6753.04	17	30	28
	Nov 2020	38	51	4	56	56	0	56	6753.04	17	0	56
	Dec 2020	32	94	5	98	98	0	98	6753.04	17	0	98
	Jan 2021	31	70	5	74	74	0	74	6753.04	17	0	74
	Feb 2021	29	52	4	56	56	0	56	6753.04	17	0	56
	Mar 2021	46	61	6	68	68	0	68	6753.04	17	5	63
	Apr 2021	101	95	12	107	107	0	107	6753.04	17	42	65
	May 2021	281	265	34	299	134	165	299	6753.04	17	62	237
	Jun 2021	315	79	34	113	113	0	113	6753.04	17	61	52
	Jul 2021	138	81	14	96	96	0	96	6753.04	17	65	31

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2019 24-Month Study

Most Probable Inflow*

Vallecito Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Aug 2018	5	19	7613.87	22
H	Sep 2018	3	4	7613.06	21
WY 2018		102	153		
I	Oct 2018	9	3	7617.56	26
S	Nov 2018	5	0	7621.25	31
T	Dec 2018	3	0	7623.31	34
O	Jan 2019	4	0	7625.50	37
R	Feb 2019	4	0	7627.67	41
I	Mar 2019	6	6	7627.39	40
C	Apr 2019	32	25	7631.32	47
A	May 2019	58	41	7640.08	64
L	Jun 2019	160	101	7664.36	124
*	Jul 2019	69	68	7664.45	124
	Aug 2019	22	38	7658.33	108
	Sep 2019	19	30	7654.00	97
WY 2019		391	312		
	Oct 2019	15	17	7653.02	94
	Nov 2019	10	6	7654.48	98
	Dec 2019	8	6	7655.06	99
	Jan 2020	7	6	7655.26	100
	Feb 2020	6	6	7655.29	100
	Mar 2020	8	2	7657.62	106
	Apr 2020	21	2	7664.77	125
	May 2020	64	63	7664.90	125
	Jun 2020	68	68	7664.81	125
	Jul 2020	27	41	7659.14	110
	Aug 2020	17	38	7650.72	89
	Sep 2020	14	29	7644.04	73
WY 2020		265	285		
	Oct 2020	14	16	7642.66	70
	Nov 2020	8	2	7645.16	76
	Dec 2020	6	2	7647.09	80
	Jan 2021	5	2	7648.56	84
	Feb 2021	5	2	7649.81	87
	Mar 2021	9	2	7652.51	93
	Apr 2021	23	2	7660.83	114
	May 2021	71	62	7664.03	123
	Jun 2021	70	70	7663.85	122
	Jul 2021	29	42	7658.88	109

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*
Navajo Reservoir



	Mod Unreg	Azetea	Reg	Evap	NIIP	Total	Reservoir Elev	Live	Farmington
	Inflow	Tunnel Div	Inflow	Losses	Diversion	Release	End of Month	Storage	Flow
Date	(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)
* Aug 2018	-7	0	7	3	42	51	6028.27	991	47
H Sep 2018	2	0	3	2	27	46	6020.80	919	41
WY 2018	268	36	283	24	224	405			531
I Oct 2018	23	1	17	1	7	31	6018.35	897	40
S Nov 2018	15	0	10	1	0	18	6017.43	888	34
T Dec 2018	12	0	9	0	0	18	6016.39	879	30
O Jan 2019	13	0	10	0	0	19	6015.33	869	31
R Feb 2019	17	0	14	1	1	16	6014.90	865	37
I Mar 2019	114	1	113	1	4	18	6024.61	955	62
C Apr 2019	230	24	203	2	20	20	6040.36	1117	102
A May 2019	270	34	216	3	25	25	6054.45	1279	143
L Jun 2019	491	57	376	4	36	114	6071.44	1501	385
* Jul 2019	171	26	141	5	47	59	6073.56	1531	224
Aug 2019	48	2	62	4	48	62	6069.85	1478	114
Sep 2019	42	2	51	3	26	61	6066.99	1439	98
WY 2019	1447	147	1221	26	214	460			1301
Oct 2019	45	2	45	2	10	31	6067.24	1443	61
Nov 2019	39	1	34	1	0	22	6068.08	1454	44
Dec 2019	29	0	27	1	0	31	6067.79	1450	49
Jan 2020	26	0	25	1	0	31	6067.33	1444	47
Feb 2020	31	0	31	1	0	29	6067.39	1445	43
Mar 2020	80	7	67	2	6	31	6069.51	1474	52
Apr 2020	145	17	109	3	21	30	6073.44	1529	83
May 2020	275	36	238	4	36	204	6072.96	1522	351
Jun 2020	195	24	170	4	53	276	6060.83	1358	411
Jul 2020	45	2	58	4	57	47	6056.87	1308	102
Aug 2020	36	1	56	3	48	31	6054.75	1282	64
Sep 2020	34	1	48	3	26	30	6053.90	1272	56
WY 2020	980	92	908	28	256	791			1361
Oct 2020	40	2	41	2	9	31	6053.87	1272	55
Nov 2020	31	0	25	1	0	30	6053.42	1266	47
Dec 2020	25	0	21	1	0	31	6052.53	1256	46
Jan 2021	22	0	18	1	0	31	6051.44	1243	44
Feb 2021	30	0	27	1	0	28	6051.30	1241	40
Mar 2021	92	9	77	2	6	31	6054.54	1280	53
Apr 2021	170	21	128	2	22	30	6060.51	1354	82
May 2021	277	37	231	4	37	133	6064.98	1413	279
Jun 2021	224	29	195	4	53	238	6057.13	1312	389
Jul 2021	66	5	74	4	57	32	6055.56	1292	99

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Lake Powell



	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)
*	Aug 2018	11	260	50	900	0	900	3597.12	4972	11477	911
H	Sep 2018	1	230	45	670	0	670	3592.28	4936	11028	690
	WY 2018	4612	5459	386	9000	0	9000				9158
I	Oct 2018	351	477	30	625	0	625	3590.46	4923	10862	650
S	Nov 2018	254	307	29	585	77	662	3586.50	4894	10507	669
T	Dec 2018	228	322	22	740	0	740	3581.85	4862	10099	744
O	Jan 2019	212	303	7	804	0	804	3576.34	4824	9629	815
R	Feb 2019	255	339	7	730	0	730	3571.89	4795	9261	741
I	Mar 2019	624	573	11	790	0	790	3569.28	4778	9049	798
C	Apr 2019	1242	899	18	720	0	720	3571.12	4790	9198	734
A	May 2019	2511	1980	23	720	0	720	3584.65	4881	10343	752
L	Jun 2019	4206	3583	41	765	0	765	3611.82	5087	12914	808
*	Jul 2019	2451	2015	57	857	0	857	3621.60	5168	13933	905
	Aug 2019	700	843	58	900	0	900	3620.60	5160	13827	917
	Sep 2019	500	672	53	686	0	686	3620.02	5155	13765	700
	WY 2019	13535	12313	357	8923	77	9000				9233
	Oct 2019	610	660	37	640	0	640	3619.87	5154	13749	650
	Nov 2019	580	614	35	640	0	640	3619.33	5149	13693	641
	Dec 2019	450	660	28	720	0	720	3618.56	5143	13611	726
	Jan 2020	430	582	9	760	0	760	3616.90	5129	13438	771
	Feb 2020	450	582	9	680	0	680	3615.95	5121	13338	689
	Mar 2020	640	597	16	710	0	710	3614.79	5111	13219	724
	Apr 2020	985	839	26	640	0	640	3616.34	5124	13379	655
	May 2020	2250	2138	32	630	0	630	3629.05	5233	14746	641
	Jun 2020	2730	2584	54	660	0	660	3643.98	5372	16478	671
	Jul 2020	870	809	68	750	0	750	3643.91	5371	16470	769
	Aug 2020	425	532	67	800	0	800	3641.32	5346	16160	817
	Sep 2020	380	509	61	600	0	600	3640.14	5335	16019	614
	WY 2020	10800	11107	442	8230	0	8230				8368
	Oct 2020	489	514	42	640	0	640	3638.81	5323	15863	650
	Nov 2020	462	495	40	640	0	640	3637.34	5309	15692	641
	Dec 2020	363	516	32	720	0	720	3635.46	5292	15473	726
	Jan 2021	361	489	10	860	0	860	3632.38	5263	15121	871
	Feb 2021	393	479	11	750	0	750	3630.07	5243	14860	759
	Mar 2021	665	599	18	800	0	800	3628.24	5226	14657	814
	Apr 2021	1056	890	28	710	0	710	3629.51	5238	14798	725
	May 2021	2343	2110	35	710	0	710	3640.50	5339	16062	721
	Jun 2021	2666	2430	58	750	0	750	3652.78	5459	17564	761
	Jul 2021	1091	990	72	850	0	850	3653.28	5464	17627	869

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



	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)
*	Aug 2018	900	74	70	749	12.2	28	748	645	1078.88	9918
H	Sep 2018	670	84	58	725	12.2	24	723	642	1078.29	9870
WY 2018		9000	690	541	9240		241	9237			
I	Oct 2018	625	100	42	641	10.4	23	634	643	1078.52	9889
S	Nov 2018	662	67	42	690	11.6	16	689	642	1078.32	9872
T	Dec 2018	740	52	36	468	7.6	11	467	659	1081.46	10132
O	Jan 2019	804	106	30	487	7.9	8	486	682	1085.75	10493
R	Feb 2019	730	126	28	621	11.2	6	620	694	1087.97	10682
I	Mar 2019	790	201	32	738	12.0	13	737	707	1090.24	10878
C	Apr 2019	720	118	39	902	15.2	15	900	700	1088.95	10767
A	May 2019	720	108	45	989	16.1	18	988	686	1086.48	10555
L	Jun 2019	765	69	54	912	15.3	27	911	676	1084.71	10405
*	Jul 2019	857	21	67	946	15.4	33	946	666	1082.82	10246
	Aug 2019	900	100	71	781	12.7	28	781	673	1084.16	10358
	Sep 2019	686	91	59	625	10.5	21	625	678	1084.96	10426
WY 2019		9000	1158	547	8800		219	8783			
	Oct 2019	640	82	43	720	11.7	23	720	674	1084.24	10366
	Nov 2019	640	54	43	559	9.4	14	559	678	1085.10	10438
	Dec 2019	720	51	37	332	5.4	11	332	702	1089.40	10805
	Jan 2020	760	83	31	550	9.0	9	550	718	1092.13	11042
	Feb 2020	680	91	29	635	11.0	8	635	724	1093.20	11135
	Mar 2020	710	57	32	959	15.6	18	959	709	1090.59	10908
	Apr 2020	640	49	39	1033	17.4	22	1033	684	1086.15	10527
	May 2020	630	30	45	975	15.9	31	975	660	1081.79	10160
	Jun 2020	660	17	53	902	15.2	31	902	642	1078.29	9870
	Jul 2020	750	80	66	811	13.2	34	811	637	1077.36	9793
	Aug 2020	800	100	70	721	11.7	31	721	641	1078.25	9867
	Sep 2020	600	91	57	694	11.7	24	694	636	1077.28	9787
WY 2020		8230	784	545	8892		257	8892			
	Oct 2020	640	82	42	459	7.5	26	459	648	1079.50	9969
	Nov 2020	640	54	42	582	9.8	18	582	651	1080.09	10018
	Dec 2020	720	51	37	543	8.8	14	543	662	1082.10	10186
	Jan 2021	860	83	30	567	9.2	9	567	683	1085.84	10501
	Feb 2021	750	91	28	651	11.7	9	651	692	1087.53	10645
	Mar 2021	800	57	31	975	15.9	18	975	682	1085.68	10487
	Apr 2021	710	49	39	1050	17.6	23	1050	660	1081.75	10157
	May 2021	710	30	44	992	16.1	32	992	640	1078.04	9849
	Jun 2021	750	17	52	919	15.4	32	919	626	1075.33	9628
	Jul 2021	850	80	65	828	13.5	34	828	626	1075.36	9630

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave



	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)
*	Aug 2018	749	-13	23	730	0	730	11.9	642.29	1679
H	Sep 2018	725	-11	18	814	0	814	13.7	637.87	1561
WY 2018		9240	-103	198	8981	0	8981			
I	Oct 2018	641	-11	15	635	0	635	10.3	637.08	1540
S	Nov 2018	690	-28	11	610	0	610	10.3	638.62	1581
T	Dec 2018	468	-14	9	386	0	386	6.3	640.79	1639
O	Jan 2019	487	-29	10	418	0	418	6.8	641.89	1668
R	Feb 2019	621	-6	10	569	0	569	10.2	643.20	1704
I	Mar 2019	738	7	13	749	0	749	12.2	642.57	1687
C	Apr 2019	902	0	17	886	0	886	14.9	642.52	1686
A	May 2019	989	-9	22	937	0	937	15.2	643.32	1707
L	Jun 2019	912	-12	25	886	0	886	14.9	642.89	1696
*	Jul 2019	946	-11	25	895	0	894	14.5	643.48	1712
	Aug 2019	781	-11	23	780	0	780	12.7	642.25	1678
	Sep 2019	625	-12	18	735	0	735	12.3	637.00	1538
WY 2019		8800	-138	198	8486	0	8486			
	Oct 2019	720	-4	15	676	0	676	11.0	638.00	1564
	Nov 2019	559	-19	11	503	0	503	8.5	639.01	1591
	Dec 2019	332	-12	9	319	0	319	5.2	638.70	1583
	Jan 2020	550	-16	10	441	0	441	7.2	641.80	1666
	Feb 2020	635	-13	10	612	0	612	10.6	641.80	1666
	Mar 2020	959	-15	13	896	0	896	14.6	643.05	1700
	Apr 2020	1033	-17	17	1001	0	1001	16.8	643.00	1699
	May 2020	975	-11	22	941	0	941	15.3	643.00	1699
	Jun 2020	902	-16	25	860	0	860	14.5	643.00	1699
	Jul 2020	811	-12	25	801	0	801	13.0	642.00	1671
	Aug 2020	721	-11	23	687	0	687	11.2	642.00	1671
	Sep 2020	694	-12	18	717	0	717	12.1	640.01	1618
WY 2020		8892	-159	198	8455	0	8455			
	Oct 2020	459	-4	15	624	0	624	10.2	633.00	1434
	Nov 2020	582	-19	10	501	0	501	8.4	635.00	1486
	Dec 2020	543	-12	9	424	0	424	6.9	638.71	1583
	Jan 2021	567	-16	10	458	0	458	7.4	641.80	1666
	Feb 2021	651	-13	10	628	0	628	11.3	641.80	1666
	Mar 2021	975	-15	13	912	0	912	14.8	643.05	1700
	Apr 2021	1050	-17	17	1018	0	1018	17.1	643.00	1699
	May 2021	992	-11	22	958	0	958	15.6	643.00	1699
	Jun 2021	919	-16	25	877	0	877	14.7	643.00	1699
	Jul 2021	828	-12	25	818	0	818	13.3	642.00	1671

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



	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)
*	Aug 2018	730	22	17	611	9.9	99	22	447.53	571	104	1.7
H	Sep 2018	814	9	15	512	8.6	95	164	448.95	598	94	1.6
	WY 2018	8981	100	139	6479		910	1431			1500	
I	Oct 2018	635	23	12	394	6.4	86	176	448.12	582	68	1.1
S	Nov 2018	610	16	9	357	6.0	85	173	447.99	580	97	1.6
T	Dec 2018	386	26	7	218	3.5	70	143	446.53	552	105	1.7
O	Jan 2019	418	19	6	250	4.1	87	91	446.58	553	122	2.0
R	Feb 2019	569	13	8	372	6.7	31	151	447.53	571	143	2.6
I	Mar 2019	749	-5	9	630	10.2	11	83	447.86	577	185	3.0
C	Apr 2019	886	6	11	712	12.0	28	144	447.29	567	170	2.9
A	May 2019	937	8	13	693	11.3	51	154	448.62	592	128	2.1
L	Jun 2019	886	11	15	717	12.0	53	104	448.47	589	138	2.3
*	Jul 2019	894	16	17	739	12.0	59	92	448.12	582	146	2.4
	Aug 2019	780	20	17	624	10.2	63	90	447.80	576	108	1.8
	Sep 2019	735	14	15	513	8.6	61	155	447.50	571	100	1.7
	WY 2019	8486	167	140	6218		686	1554			1510	
	Oct 2019	676	24	12	467	7.6	43	171	447.50	570	62	1.0
	Nov 2019	503	14	9	358	6.0	30	115	447.50	571	88	1.5
	Dec 2019	319	22	7	274	4.5	31	43	446.50	552	83	1.4
	Jan 2020	441	18	6	262	4.3	95	92	446.50	552	121	2.0
	Feb 2020	612	11	8	431	7.5	85	92	446.50	552	148	2.6
	Mar 2020	896	5	9	706	11.5	18	157	446.70	555	187	3.0
	Apr 2020	1001	12	11	728	12.2	74	151	448.70	593	173	2.9
	May 2020	941	13	13	695	11.3	77	157	448.70	593	116	1.9
	Jun 2020	860	11	16	718	12.1	74	50	448.70	593	124	2.1
	Jul 2020	801	19	17	677	11.0	77	50	448.00	580	131	2.1
	Aug 2020	687	20	17	598	9.7	77	13	447.50	571	101	1.6
	Sep 2020	717	14	15	508	8.5	74	124	447.50	570	93	1.6
	WY 2020	8455	182	139	6422		754	1215			1427	
	Oct 2020	624	24	12	487	7.9	30	112	447.50	571	63	1.0
	Nov 2020	501	14	9	359	6.0	29	112	447.50	571	96	1.6
	Dec 2020	424	22	7	311	5.1	30	112	446.50	552	106	1.7
	Jan 2021	458	18	6	262	4.3	100	104	446.50	552	121	2.0
	Feb 2021	628	11	8	430	7.7	90	104	446.50	552	148	2.7
	Mar 2021	912	5	9	704	11.5	23	169	446.70	555	187	3.0
	Apr 2021	1018	12	11	727	12.2	80	163	448.70	593	173	2.9
	May 2021	958	13	13	694	11.3	83	169	448.70	593	116	1.9
	Jun 2021	877	11	16	716	12.0	80	62	448.70	593	124	2.1
	Jul 2021	818	19	17	676	11.0	83	62	448.00	580	131	2.1

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



	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
*	Aug 2018	749	12.2	1078.88	9918	119	435.01	1562.0	287.4	100	383.8
H	Sep 2018	725	12.2	1078.29	9870	-49	434.15	1562.0	278.7	100	384.7
WY 2018		9240						3614.3			
I	Oct 2018	641	10.4	1078.52	9889	19	435.29	1406.1	247.8	87	386.7
S	Nov 2018	690	11.6	1078.32	9872	-16	434.47	755.0	266.1	49	385.8
T	Dec 2018	453	7.6	1081.46	10132	260	438.59	959.9	179.6	61	396.6
O	Jan 2019	487	7.9	1085.75	10493	361	442.10	1006.1	183.4	63	376.8
R	Feb 2019	621	11.2	1087.97	10682	189	443.82	1119.0	246.4	70	396.7
I	Mar 2019	738	12.0	1090.24	10878	195	444.26	1112.0	295.7	70	400.6
C	Apr 2019	902	15.2	1088.95	10767	-111	439.99	810.1	365.4	51	405.2
A	May 2019	989	16.1	1086.48	10555	-211	440.79	803.9	398.2	51	402.5
L	Jun 2019	912	15.3	1084.71	10405	-150	439.38	1591.0	359.0	100	393.7
*	Jul 2019	946	15.4	1082.82	10246	-159	435.56	1486.0	371.7	93	392.7
	Aug 2019	781	12.7	1084.16	10358	112	432.10	1297.0	307.4	81	393.6
	Sep 2019	625	10.5	1084.96	10426	68	433.24	1600.0	239.3	100	383.0
WY 2019		8785						3460.0			
	Oct 2019	720	11.7	1084.24	10366	-61	435.99	1403.0	282.5	88	392.2
	Nov 2019	559	9.4	1085.10	10438	73	436.84	1190.1	218.2	74	390.4
	Dec 2019	332	5.4	1089.40	10805	367	439.07	1213.0	125.2	75	376.5
	Jan 2020	550	9.0	1092.13	11042	237	442.25	1145.0	216.2	70	392.9
	Feb 2020	635	11.0	1093.20	11135	93	443.29	1129.0	253.3	68	398.9
	Mar 2020	959	15.6	1090.59	10908	-227	440.76	1324.0	386.3	81	402.9
	Apr 2020	1033	17.4	1086.15	10527	-381	437.15	1258.1	413.5	78	400.1
	May 2020	975	15.9	1081.79	10160	-367	431.11	1493.9	382.4	94	392.3
	Jun 2020	902	15.2	1078.29	9870	-290	426.56	1576.0	347.3	100	385.1
	Jul 2020	811	13.2	1077.36	9793	-76	424.69	1576.0	313.1	100	386.0
	Aug 2020	721	11.7	1078.25	9867	73	425.00	1591.0	275.1	100	381.4
	Sep 2020	694	11.7	1077.28	9787	-80	425.61	1591.0	264.9	100	381.7
WY 2020		8892						3478.1			
	Oct 2020	459	7.5	1079.50	9969	182	432.00	1078.1	178.7	67	389.1
	Nov 2020	582	9.8	1080.09	10018	49	435.68	1079.0	228.5	67	392.7
	Dec 2020	543	8.8	1082.10	10186	168	435.10	1087.1	210.0	68	387.0
	Jan 2021	567	9.2	1085.84	10501	315	435.49	1150.0	220.7	70	389.2
	Feb 2021	651	11.7	1087.53	10645	144	437.34	1131.9	258.6	68	397.1
	Mar 2021	975	15.9	1085.68	10487	-158	435.51	1328.7	389.1	81	399.0
	Apr 2021	1050	17.6	1081.75	10157	-331	432.53	1268.3	416.7	78	396.9
	May 2021	992	16.1	1078.04	9849	-307	427.07	1504.8	379.4	94	382.6
	Jun 2021	919	15.4	1075.33	9628	-221	423.24	1587.7	351.8	100	383.0
	Jul 2021	828	13.5	1075.36	9630	2	422.24	1587.6	318.5	100	384.6

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave



	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
*	Aug 2018	730	11.9	642.29	1679	-17	141.02	255.0	92.7	100	127.1
H	Sep 2018	814	13.7	637.87	1561	-119	136.59	255.0	101.2	100	124.3
WY 2018		8981							1126.3		
I	Oct 2018	635	10.3	637.08	1540	-21	135.95	184.3	77.8	72	122.4
S	Nov 2018	610	10.3	638.62	1581	40	137.20	158.1	78.4	62	128.4
T	Dec 2018	386	6.3	640.79	1639	58	140.00	153.0	47.3	60	122.5
O	Jan 2019	418	6.8	641.89	1668	30	143.26	159.6	56.8	63	135.8
R	Feb 2019	569	10.2	643.20	1704	36	144.69	209.5	68.8	82	120.9
I	Mar 2019	749	12.2	642.57	1687	-17	140.17	218.8	94.8	86	126.6
C	Apr 2019	886	14.9	642.52	1686	-1	142.03	210.8	111.9	83	126.3
A	May 2019	937	15.2	643.32	1707	22	139.79	238.6	119.5	94	127.6
L	Jun 2019	886	14.9	642.89	1696	-12	140.50	255.0	113.6	100	128.3
*	Jul 2019	895	14.5	643.48	1712	16	142.50	255.0	113.2	100	126.5
	Aug 2019	780	12.7	642.25	1678	-34	139.94	255.0	98.4	100	126.1
	Sep 2019	735	12.3	637.00	1538	-140	136.84	255.0	90.6	100	123.3
WY 2019		8486							1071.0		
	Oct 2019	676	11.0	638.00	1564	26	135.25	208.9	82.3	82	121.8
	Nov 2019	503	8.5	639.01	1591	27	137.31	153.0	62.2	60	123.7
	Dec 2019	319	5.2	638.70	1583	-8	139.16	200.7	40.0	79	125.4
	Jan 2020	441	7.2	641.80	1666	83	139.62	179.3	55.5	70	125.8
	Feb 2020	612	10.6	641.80	1666	0	139.68	189.9	77.0	74	125.8
	Mar 2020	896	14.6	643.05	1700	34	138.83	255.0	112.1	100	125.1
	Apr 2020	1001	16.8	643.00	1699	-1	138.66	255.0	125.1	100	124.9
	May 2020	941	15.3	643.00	1699	0	139.15	255.0	118.0	100	125.4
	Jun 2020	860	14.5	643.00	1699	0	139.44	255.0	108.1	100	125.6
	Jul 2020	801	13.0	642.00	1671	-27	139.45	255.0	100.7	100	125.6
	Aug 2020	687	11.2	642.00	1671	0	139.67	255.0	86.5	100	125.8
	Sep 2020	717	12.1	640.01	1618	-54	138.33	255.0	89.4	100	124.6
WY 2020		8455							1056.8		
	Oct 2020	624	10.2	633.00	1434	-183	134.59	208.9	75.7	82	121.3
	Nov 2020	501	8.4	635.00	1486	51	132.81	153.0	60.0	60	119.7
	Dec 2020	424	6.9	638.71	1583	97	136.36	200.7	52.1	79	122.8
	Jan 2021	458	7.4	641.80	1666	83	139.51	179.3	57.6	70	125.7
	Feb 2021	628	11.3	641.80	1666	0	139.41	189.4	78.9	74	125.6
	Mar 2021	912	14.8	643.05	1700	34	138.73	255.0	114.0	100	125.0
	Apr 2021	1018	17.1	643.00	1699	-1	138.56	255.0	127.1	100	124.8
	May 2021	958	15.6	643.00	1699	0	139.05	255.0	120.0	100	125.3
	Jun 2021	877	14.7	643.00	1699	0	139.34	255.0	110.1	100	125.5
	Jul 2021	818	13.3	642.00	1671	-27	139.35	255.0	102.7	100	125.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



	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
*	Aug 2018	611	9.9	447.53	571	-9	79.27	120.0	42.7	100	69.9
H	Sep 2018	512	8.6	448.95	598	27	83.02	120.0	35.9	100	70.1
WY 2018		6479						451.7			
I	Oct 2018	394	6.4	448.12	582	-16	82.83	90.0	27.9	75	70.9
S	Nov 2018	357	6.0	447.99	580	-3	82.25	93.0	26.1	78	73.0
T	Dec 2018	218	3.5	446.53	552	-27	81.03	116.1	12.9	97	59.1
O	Jan 2019	250	4.1	446.58	553	1	82.75	117.1	17.0	98	68.2
R	Feb 2019	372	6.7	447.53	571	18	81.87	95.4	25.5	79	68.6
I	Mar 2019	630	10.2	447.86	577	6	82.11	111.3	44.3	93	70.4
C	Apr 2019	712	12.0	447.29	567	-11	79.40	115.0	49.5	96	69.5
A	May 2019	673	11.3	448.62	592	25	80.51	119.0	48.6	99	72.2
L	Jun 2019	717	12.0	448.47	589	-3	80.43	120.0	50.3	100	70.2
*	Jul 2019	739	12.0	448.12	582	-7	80.11	120.0	51.4	100	69.5
	Aug 2019	624	10.2	447.80	576	-6	75.33	120.0	41.0	100	65.7
	Sep 2019	513	8.6	447.50	571	-6	75.03	120.0	33.4	100	65.1
WY 2019		6198						428.0			
	Oct 2019	467	7.6	447.50	570	0	76.29	90.0	30.8	75	65.9
	Nov 2019	358	6.0	447.50	571	0	76.14	93.0	23.2	78	65.0
	Dec 2019	274	4.5	446.50	552	-19	74.65	114.2	17.2	95	62.6
	Jan 2020	262	4.3	446.50	552	0	75.07	94.8	16.4	79	62.7
	Feb 2020	431	7.5	446.50	552	0	75.16	93.1	28.0	78	65.1
	Mar 2020	706	11.5	446.70	555	4	74.01	120.0	45.8	100	64.9
	Apr 2020	728	12.2	448.70	593	38	75.08	120.0	48.0	100	65.9
	May 2020	695	11.3	448.70	593	0	76.05	120.0	46.2	100	66.5
	Jun 2020	718	12.1	448.70	593	0	76.05	120.0	47.8	100	66.6
	Jul 2020	677	11.0	448.00	580	-13	75.71	120.0	44.8	100	66.1
	Aug 2020	598	9.7	447.50	571	-9	75.13	120.0	39.1	100	65.4
	Sep 2020	508	8.5	447.50	570	0	74.89	120.0	33.0	100	65.0
WY 2020		6422						420.4			
	Oct 2020	487	7.9	447.50	571	0	76.29	90.0	32.2	75	66.1
	Nov 2020	359	6.0	447.50	571	0	76.19	92.0	23.4	77	65.0
	Dec 2020	311	5.1	446.50	552	-19	74.86	109.4	19.7	91	63.3
	Jan 2021	262	4.3	446.50	552	0	75.07	94.8	16.4	79	62.7
	Feb 2021	430	7.7	446.50	552	0	75.21	92.1	28.1	77	65.2
	Mar 2021	704	11.5	446.70	555	4	74.01	120.0	45.7	100	64.9
	Apr 2021	727	12.2	448.70	593	38	75.08	120.0	47.9	100	65.9
	May 2021	694	11.3	448.70	593	0	76.05	120.0	46.1	100	66.5
	Jun 2021	716	12.0	448.70	593	0	76.05	120.0	47.7	100	66.6
	Jul 2021	676	11.0	448.00	580	-13	75.71	120.0	44.7	100	66.1

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Upper Basin Power



Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
* Aug 2018	393	50	24	33	19	7
H Sep 2018	288	47	8	29	16	1
Summer 2018	2045	297	133	193	111	36
I Oct 2018	268	39	11	19	9	4
S Nov 2018	248	36	5	4	2	5
T Dec 2018	313	47	5	6	2	5
O Jan 2019	335	47	4	6	1	4
R Feb 2019	302	42	6	8	1	3
I Mar 2019	325	22	6	9	4	3
Winter 2019	1790	233	36	51	19	24
C Apr 2019	294	27	9	14	10	4
A May 2019	299	38	23	45	21	6
L Jun 2019	332	82	33	64	22	8
* Jul 2019	391	39	28	54	23	7
Aug 2019	372	43	34	52	23	7
Sep 2019	283	48	33	39	20	3
Summer 2019	1972	278	159	268	119	36
Oct 2019	264	28	26	31	16	6
Nov 2019	264	26	24	29	15	6
Dec 2019	296	62	34	41	21	6
Jan 2020	312	62	16	21	11	5
Feb 2020	278	58	15	19	0	5
Mar 2020	290	29	15	20	8	4
Winter 2020	1704	265	129	161	71	32
Apr 2020	262	28	18	27	15	5
May 2020	261	29	58	102	23	7
Jun 2020	281	89	20	32	21	8
Jul 2020	324	42	19	25	14	10
Aug 2020	345	45	22	27	14	10
Sep 2020	258	44	23	29	14	2
Summer 2020	1730	275	161	242	102	40
Oct 2020	274	25	15	19	10	5
Nov 2020	272	24	15	19	10	5
Dec 2020	306	43	27	34	17	5
Jan 2021	363	43	20	25	13	5
Feb 2021	316	38	14	19	10	4
Mar 2021	336	22	0	22	12	4
Winter 2021	1531	172	92	115	59	23
Apr 2021	297	22	0	34	19	5
May 2021	301	24	2	95	23	7
Jun 2021	324	87	17	29	20	8
Jul 2021	372	45	23	29	17	10

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2019 24-Month Study

Most Probable Inflow*

Flood Control Criteria

Beginning of Month Conditions



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	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	KAF	
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****											
Aug 2019	274	7	165	10388	10835	17131	27966	274	7	165	447	10388	17131	27966	1500	781	0	32.7	
Sep 2019	319	50	218	10495	11081	17019	28099	319	50	218	586	10495	17019	28099	2270	625	0	32.4	
Oct 2019	405	90	257	10557	11308	16951	28259	405	90	257	751	10557	16951	28259	3040	720	0	32.3	
Nov 2019	429	126	253	10573	11381	17011	28392	429	126	253	808	10573	17011	28392	3810	559	0	32.3	
Dec 2019	445	166	242	10629	11482	16939	28421	445	166	242	853	10629	16939	28421	4580	332	0	32.3	
Jan 2020	573	245	246	10711	11775	16572	28347	573	245	246	1064	10711	16572	28347	5350	550	0	32.3	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2020	573	245	246	10711	11775	16572	28347	182	151	50	384	10711	16572	27667	5350	550	0	32.3	
Feb 2020	695	268	252	10884	12099	16335	28434	306	175	56	537	10884	16335	27756	1500	635	0	32.2	
Mar 2020	804	292	251	10984	12331	16242	28573	415	200	54	668	10984	16242	27894	1500	959	0	31.9	
Apr 2020	789	305	222	11103	12420	16469	28889	395	213	18	626	11103	16469	28198	1500	1033	0	31.8	
May 2020	738	292	167	10943	12140	16850	28990	336	203	-62	477	10943	16850	28270	1500	975	0	32.9	
Jun 2020	599	342	174	9576	10691	17217	27908	184	241	-95	330	9576	17217	27123	1500	902	0	34.5	
Jul 2020	511	153	338	7844	8845	17507	26353	87	34	11	132	7844	17507	25483	1500	811	0	34.4	
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****											
Aug 2020	442	112	388	7852	8794	17584	26377	442	112	388	942	7852	17584	26377	1500	721	0	34.1	
Sep 2020	502	121	414	8162	9199	17510	26709	502	121	414	1037	8162	17510	26709	2270	694	0	33.7	
Oct 2020	583	149	424	8303	9458	17590	27048	583	149	424	1156	8303	17590	27048	3040	459	0	33.5	
Nov 2020	603	158	424	8459	9644	17408	27052	603	158	424	1186	8459	17408	27052	3810	582	0	33.4	
Dec 2020	623	173	430	8630	9857	17359	27216	623	173	430	1227	8630	17359	27216	4580	543	0	33.2	
Jan 2021	706	240	440	8849	10234	17191	27425	706	240	440	1386	8849	17191	27425	5350	567	0	33.1	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2021	706	240	440	8849	10234	17191	27425	374	128	229	731	8849	17191	26771	5350	567	0	33.1	
Feb 2021	783	283	453	9201	10719	16876	27595	451	171	241	863	9201	16876	26940	1500	651	0	32.9	
Mar 2021	845	309	455	9462	11071	16732	27803	512	198	242	952	9462	16732	27146	1500	975	0	32.7	
Apr 2021	809	328	416	9665	11219	16890	28108	471	219	196	886	9665	16890	27441	1500	1050	0	32.6	
May 2021	743	335	342	9524	10944	17220	28165	397	226	97	720	9524	17220	27465	1500	992	0	33.8	
Jun 2021	577	369	283	8260	9489	17528	27017	217	244	-1	460	8260	17528	26248	1500	919	0	35.3	
Jul 2021	459	191	384	6758	7792	17749	25541	87	42	42	170	6758	17749	24678	1500	828	0	35.4	

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