

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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The operation of Lake Powell and Lake Mead in this July 2018 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 2018 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2017 24-Month Study projections of the January 1, 2018, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2018.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell's operational tier in water year 2018 is the Upper Elevation Balancing Tier. With an 8.23 million acre-feet (maf) release from Lake Powell in water year 2018, the April 2018 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 2018. 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 July 24-Month Study projects a balancing release of 9.0 maf in water year 2018.

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 2018.

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

The 2018 AOP is available for download at: <https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP18.pdf>.

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 June was 0.883 maf or 33 percent of the 30-year average from 1981 to 2010. The forecast for July unregulated inflow into Lake Powell is 0.196 maf or 18 percent of the 30-year average. The forecasted 2018 April through July unregulated inflow is 2.675 maf or 37 percent of average.

In this study, the calendar year 2018 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 0.941 maf. The calendar year 2018 diversion for the Central Arizona Project (CAP) is forecasted to be 1.620 maf. Consumptive use for Nevada above Hoover (SNWP Use) is forecasted to be 0.279 maf for calendar year 2018.

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 Management Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Eric Carty at (702) 293-8129.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir



	Regulated Inflow	Evap Losses	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Jul 2017	332	3	88	230	319	6503.83	328
H Aug 2017	102	2	95	61	156	6496.34	271
I Sep 2017	66	2	69	4	72	6495.21	263
WY 2017	2319	15	379	1890	2270		
S Oct 2017	73	1	80	0	80	6494.03	255
T Nov 2017	62	1	78	0	78	6491.65	238
O Dec 2017	46	1	72	8	80	6486.39	204
R Jan 2018	42	1	79	1	80	6479.83	165
I Feb 2018	38	0	72	0	72	6472.86	131
C Mar 2018	58	0	16	56	71	6469.78	117
A Apr 2018	101	1	83	4	87	6472.76	130
L May 2018	354	2	100	123	223	6494.84	260
* Jun 2018	404	2	101	269	370	6499.18	292
Jul 2018	136	3	85	0	85	6505.44	341
Aug 2018	70	2	74	0	74	6504.67	335
Sep 2018	48	2	71	0	71	6501.43	310
WY 2018	1433	16	911	461	1371		
Oct 2018	52	1	74	0	74	6498.38	287
Nov 2018	47	1	71	0	71	6494.90	262
Dec 2018	40	1	74	0	74	6489.77	227
Jan 2019	35	1	74	0	74	6483.66	188
Feb 2019	32	1	67	0	67	6477.25	153
Mar 2019	50	0	77	0	77	6471.42	125
Apr 2019	80	1	92	0	92	6468.44	113
May 2019	150	1	97	5	103	6478.51	159
Jun 2019	270	2	101	39	140	6498.38	287
Jul 2019	175	3	102	18	120	6505.18	339
Aug 2019	66	2	69	0	69	6504.50	334
Sep 2019	43	2	67	0	67	6501.17	308
WY 2019	1040	15	965	62	1027		
Oct 2019	47	1	69	0	69	6498.01	284
Nov 2019	41	1	67	0	67	6494.33	258
Dec 2019	32	1	69	0	69	6488.69	220
Jan 2020	30	1	69	0	69	6482.39	180
Feb 2020	28	1	65	0	65	6475.23	143
Mar 2020	53	0	75	0	75	6470.17	120
Apr 2020	85	1	90	0	90	6468.94	115
May 2020	164	1	95	0	95	6482.72	182
Jun 2020	299	2	104	41	145	6504.55	334

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

July 2018 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)
* Jul 2017	387	374	14	180	48	228	142	6034.61	3531	315
H Aug 2017	120	174	13	143	0	143	143	6035.05	3548	173
I Sep 2017	87	93	11	141	0	141	140	6033.63	3491	161
WY 2017	3153	3104	81	2016	712	2728				4225
S Oct 2017	88	95	8	107	0	107	140	6033.17	3473	151
T Nov 2017	82	98	4	139	0	139	138	6032.07	3430	166
O Dec 2017	52	86	2	174	0	174	135	6029.85	3343	197
R Jan 2018	52	90	2	175	0	175	131	6027.65	3259	208
I Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
C Mar 2018	86	99	3	106	0	106	128	6025.65	3184	178
A Apr 2018	121	108	5	101	0	101	128	6025.69	3186	277
L May 2018	422	290	8	163	6	169	133	6028.57	3294	572
* Jun 2018	435	401	11	125	0	125	143	6035.09	3550	278
Jul 2018	142	91	14	120	0	120	141	6034.06	3508	142
Aug 2018	73	77	13	123	0	123	139	6032.62	3451	139
Sep 2018	51	74	11	125	0	125	136	6031.10	3392	135
WY 2018	1661	1600	83	1613	7	1620				2638
Oct 2018	64	86	7	111	0	111	135	6030.30	3361	138
Nov 2018	60	84	4	107	0	107	134	6029.64	3335	135
Dec 2018	41	75	2	111	0	111	133	6028.70	3299	134
Jan 2019	45	84	2	111	0	111	132	6027.98	3272	131
Feb 2019	45	80	2	100	0	100	131	6027.40	3250	119
Mar 2019	95	122	3	138	0	138	130	6026.91	3231	203
Apr 2019	130	142	5	134	0	134	130	6026.99	3234	324
May 2019	195	148	8	197	0	197	128	6025.53	3180	687
Jun 2019	325	195	10	167	0	167	129	6026.00	3197	602
Jul 2019	200	145	13	92	0	92	130	6027.01	3235	167
Aug 2019	75	78	12	92	0	92	129	6026.33	3210	111
Sep 2019	50	74	11	89	0	89	128	6025.65	3184	103
WY 2019	1325	1312	79	1448	0	1448				2853
Oct 2019	55	78	7	92	0	92	127	6025.10	3164	119
Nov 2019	50	75	3	89	0	89	127	6024.65	3147	118
Dec 2019	35	72	2	92	0	92	126	6024.07	3126	118
Jan 2020	40	79	2	92	0	92	125	6023.69	3112	117
Feb 2020	45	82	2	86	0	86	125	6023.51	3105	114
Mar 2020	102	125	3	61	0	61	127	6025.09	3163	138
Apr 2020	134	138	5	60	0	60	130	6026.99	3234	275
May 2020	245	176	8	191	0	191	129	6026.43	3213	723
Jun 2020	390	235	10	167	0	167	132	6027.92	3270	587

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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)
*	Jul 2017	24	26	9326.95	100
H	Aug 2017	12	25	9320.31	88
I	Sep 2017	8	18	9314.58	77
WY 2017		179	173		
S	Oct 2017	8	8	9314.93	78
T	Nov 2017	6	6	9315.09	78
O	Dec 2017	4	6	9313.84	76
R	Jan 2018	4	6	9312.64	74
I	Feb 2018	4	6	9311.50	72
C	Mar 2018	5	6	9310.51	71
A	Apr 2018	8	7	9311.18	72
L	May 2018	24	12	9318.33	84
*	Jun 2018	13	15	9317.29	82
	Jul 2018	6	18	9309.84	70
	Aug 2018	5	15	9302.96	59
	Sep 2018	5	12	9297.96	52
WY 2018		93	118		
	Oct 2018	4	4	9298.24	53
	Nov 2018	3	3	9298.24	53
	Dec 2018	3	3	9298.17	53
	Jan 2019	3	3	9298.09	53
	Feb 2019	2	3	9297.48	52
	Mar 2019	3	3	9297.40	52
	Apr 2019	5	10	9293.38	47
	May 2019	23	16	9299.30	54
	Jun 2019	35	21	9308.93	68
	Jul 2019	14	24	9302.56	59
	Aug 2019	7	20	9292.96	46
	Sep 2019	6	15	9284.65	37
WY 2019		108	123		
	Oct 2019	6	7	9283.46	36
	Nov 2019	5	5	9283.19	36
	Dec 2019	5	5	9282.64	35
	Jan 2020	4	5	9281.73	34
	Feb 2020	4	5	9280.53	33
	Mar 2020	4	8	9276.41	30
	Apr 2020	9	8	9277.31	31
	May 2020	28	30	9275.24	29
	Jun 2020	42	30	9287.87	41

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Blue Mesa Reservoir



	UnReg Inflow	Regulated Inflow	Evap Losses	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Jul 2017	135	137	2	113	0	110	7518.20	819
H Aug 2017	84	96	1	111	0	111	7516.38	802
I Sep 2017	35	45	1	115	0	114	7508.43	732
WY 2017	1245	1238	9	987	101	1163		
S Oct 2017	37	37	1	102	0	102	7500.64	667
T Nov 2017	32	32	0	40	0	40	7499.68	659
O Dec 2017	25	27	0	93	0	93	7491.44	593
R Jan 2018	20	22	0	60	0	60	7486.51	554
I Feb 2018	23	25	0	32	0	32	7485.54	547
C Mar 2018	28	29	0	43	0	43	7483.73	534
A Apr 2018	48	47	1	82	0	82	7478.94	498
L May 2018	112	100	1	85	0	85	7480.90	513
* Jun 2018	56	57	1	98	0	98	7475.06	471
Jul 2018	28	40	1	105	0	105	7465.34	405
Aug 2018	26	36	1	81	0	81	7458.01	359
Sep 2018	24	31	1	73	0	73	7450.60	316
WY 2018	459	484	7	893	0	893		
Oct 2018	24	24	0	46	0	46	7446.54	294
Nov 2018	21	21	0	18	0	18	7447.10	297
Dec 2018	18	18	0	19	0	19	7447.00	296
Jan 2019	16	16	0	20	0	20	7446.34	292
Feb 2019	14	15	0	18	0	18	7445.63	289
Mar 2019	25	25	0	23	0	23	7445.88	290
Apr 2019	54	59	1	49	0	49	7447.74	300
May 2019	174	167	1	169	0	169	7447.09	297
Jun 2019	250	236	1	45	0	45	7477.28	486
Jul 2019	90	100	1	74	0	74	7480.63	511
Aug 2019	48	61	1	77	0	77	7478.22	493
Sep 2019	36	45	1	71	0	71	7474.38	466
WY 2019	770	785	7	629	0	629		
Oct 2019	37	38	0	44	0	44	7473.40	459
Nov 2019	31	31	0	12	0	12	7476.00	477
Dec 2019	26	26	0	12	0	12	7478.01	492
Jan 2020	24	25	0	12	0	12	7479.87	505
Feb 2020	22	23	0	11	0	11	7481.57	518
Mar 2020	36	40	0	17	0	17	7484.51	539
Apr 2020	77	76	1	42	0	42	7488.93	573
May 2020	221	223	1	167	0	167	7495.93	628
Jun 2020	261	249	1	106	0	106	7512.77	770

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Morrow Point Reservoir



	Unreg	Blue Mesa	Side	Total	Power	Bypass	Total	Reservoir Elev	Live
	Inflow	Release	Inflow	Inflow	Release	Release	Release	End of Month	Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Jul 2017	139	110	4	114	37	0	111	7155.13	113
H Aug 2017	86	111	2	113	0	0	115	7152.68	111
I Sep 2017	35	114	0	115	92	0	112	7155.62	114
WY 2017	1314	1163	69	1232	893	0	1226		
S Oct 2017	38	102	1	103	105	0	105	7153.17	112
T Nov 2017	34	40	1	41	42	0	42	7152.45	111
O Dec 2017	26	93	1	94	94	0	94	7152.45	111
R Jan 2018	22	60	2	62	62	0	63	7150.65	110
I Feb 2018	24	32	1	33	34	0	34	7149.19	108
C Mar 2018	29	43	1	44	49	0	49	7143.05	104
A Apr 2018	54	82	6	87	79	0	79	7154.30	112
L May 2018	121	85	8	94	94	0	94	7153.76	112
* Jun 2018	57	98	2	99	99	0	99	7154.16	112
Jul 2018	28	105	0	105	105	0	105	7153.73	112
Aug 2018	26	81	0	81	81	0	81	7153.73	112
Sep 2018	26	73	2	75	75	0	75	7153.73	112
WY 2018	485	893	26	919	918	0	920		
Oct 2018	25	46	1	47	47	0	47	7153.73	112
Nov 2018	22	18	1	19	19	0	19	7153.73	112
Dec 2018	19	19	1	20	20	0	20	7153.73	112
Jan 2019	17	20	1	21	21	0	21	7153.73	112
Feb 2019	14	18	0	18	18	0	18	7153.73	112
Mar 2019	26	23	1	24	24	0	24	7153.73	112
Apr 2019	62	49	8	57	57	0	57	7153.73	112
May 2019	190	169	16	185	185	0	185	7153.73	112
Jun 2019	265	45	15	60	60	0	60	7153.73	112
Jul 2019	93	74	3	77	77	0	77	7153.73	112
Aug 2019	51	77	3	80	80	0	80	7153.73	112
Sep 2019	36	71	0	71	71	0	71	7153.73	112
WY 2019	820	629	50	679	679	0	679		
Oct 2019	38	44	1	45	45	0	45	7153.73	112
Nov 2019	32	12	1	14	14	0	14	7153.73	112
Dec 2019	28	12	2	14	14	0	14	7153.73	112
Jan 2020	27	12	2	14	14	0	14	7153.73	112
Feb 2020	25	11	3	13	13	0	13	7153.73	112
Mar 2020	40	17	4	21	21	0	21	7153.73	112
Apr 2020	88	42	11	53	53	0	53	7153.73	112
May 2020	247	167	26	193	193	0	193	7153.73	112
Jun 2020	281	106	20	126	126	0	126	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Crystal Reservoir



	Unreg Inflow	Morrow Release	Side Inflow	Total Inflow	Power Release	Bypass Release	Total Release	Reservoir Elev	Live Storage	Tunnel Flow	Below Tunnel Flow
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	End of Month (Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
H Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
I Sep 2017	39	112	4	116	115	0	115	6748.63	16	59	56
WY 2017	1423	1226	109	1335	751	350	1334			413	929
S Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
T Nov 2017	38	42	4	46	46	0	46	6749.89	16	1	46
O Dec 2017	29	94	3	97	97	0	97	6749.23	16	1	98
R Jan 2018	25	63	3	66	62	4	66	6747.99	16	1	65
I Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	34
C Mar 2018	33	49	4	52	53	0	53	6747.97	16	13	38
A Apr 2018	60	79	6	84	84	0	84	6749.35	16	53	28
L May 2018	129	94	9	102	102	0	102	6749.41	16	62	40
* Jun 2018	61	99	3	102	102	0	102	6750.48	16	63	44
Jul 2018	30	105	2	107	107	0	107	6753.04	17	63	44
Aug 2018	28	81	2	83	83	0	83	6753.04	17	65	18
Sep 2018	28	75	2	77	77	0	77	6753.04	17	55	22
WY 2018	531	920	46	965	938	26	964			433	530
Oct 2018	27	47	2	49	49	0	49	6753.04	17	30	19
Nov 2018	24	19	2	21	21	0	21	6753.04	17	0	21
Dec 2018	21	20	2	22	22	0	22	6753.04	17	0	22
Jan 2019	18	21	1	22	22	0	22	6753.04	17	0	22
Feb 2019	15	18	1	19	19	0	19	6753.04	17	0	19
Mar 2019	28	24	2	26	26	0	26	6753.04	17	5	21
Apr 2019	65	57	3	60	60	0	60	6753.04	17	42	18
May 2019	210	185	20	205	134	71	205	6753.04	17	62	143
Jun 2019	290	60	25	85	85	0	85	6753.04	17	61	24
Jul 2019	99	77	6	83	83	0	83	6753.04	17	65	18
Aug 2019	54	80	3	83	83	0	83	6753.04	17	65	18
Sep 2019	39	71	3	74	74	0	74	6753.04	17	55	19
WY 2019	890	679	70	749	678	71	749			385	364
Oct 2019	42	45	4	49	49	0	49	6753.04	17	30	19
Nov 2019	36	14	4	18	18	0	18	6753.04	17	0	18
Dec 2019	32	14	5	18	18	0	18	6753.04	17	0	18
Jan 2020	31	14	5	18	18	0	18	6753.04	17	0	18
Feb 2020	29	13	4	17	17	0	17	6753.04	17	0	17
Mar 2020	46	21	6	28	28	0	28	6753.04	17	5	23
Apr 2020	101	53	12	65	65	0	65	6753.04	17	42	23
May 2020	281	193	34	227	134	93	227	6753.04	17	62	165
Jun 2020	315	126	34	160	130	30	160	6753.04	17	61	99

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

July 2018 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)
*	Jul 2017	30	39	7660.94	115
H	Aug 2017	19	33	7655.15	100
I	Sep 2017	9	34	7644.31	74
WY 2017		303	297		
S	Oct 2017	4	22	7638.22	61
T	Nov 2017	3	2	7639.49	63
O	Dec 2017	1	1	7640.27	65
R	Jan 2018	2	0	7641.42	67
I	Feb 2018	1	0	7642.57	70
C	Mar 2018	3	0	7644.11	73
A	Apr 2018	9	3	7649.29	85
L	May 2018	30	31	7648.91	84
*	Jun 2018	14	35	7639.22	63
	Jul 2018	5	25	7628.52	42
	Aug 2018	6	23	7617.06	25
	Sep 2018	7	18	7606.72	14
WY 2018		84	161		
	Oct 2018	7	10	7602.43	11
	Nov 2018	4	2	7605.16	13
	Dec 2018	3	2	7606.49	14
	Jan 2019	3	2	7607.75	15
	Feb 2019	2	2	7608.06	16
	Mar 2019	4	2	7610.21	18
	Apr 2019	16	2	7621.86	32
	May 2019	54	31	7635.14	54
	Jun 2019	63	44	7644.00	73
	Jul 2019	25	42	7635.79	56
	Aug 2019	16	38	7623.08	33
	Sep 2019	13	30	7609.23	17
WY 2019		210	205		
	Oct 2019	13	17	7604.38	12
	Nov 2019	8	2	7611.11	19
	Dec 2019	6	2	7615.15	23
	Jan 2020	5	2	7618.02	27
	Feb 2020	5	2	7620.28	30
	Mar 2020	9	2	7624.84	36
	Apr 2020	23	2	7636.70	57
	May 2020	71	70	7637.26	59
	Jun 2020	70	70	7637.16	58

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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)
* Jul 2017	49	11	48	4	43	38	6061.00	1361	88
H Aug 2017	30	5	38	4	35	36	6058.07	1323	55
I Sep 2017	9	2	33	3	23	42	6055.28	1289	48
WY 2017	1157	160	991	28	198	785			1410
S Oct 2017	38	2	49	2	8	32	6055.89	1296	52
T Nov 2017	19	0	16	1	0	25	6055.04	1286	41
O Dec 2017	10	0	9	1	0	24	6053.69	1270	40
R Jan 2018	12	0	9	1	0	23	6052.47	1255	40
I Feb 2018	14	0	11	1	1	18	6051.73	1246	33
C Mar 2018	24	2	19	2	6	21	6050.92	1236	30
A Apr 2018	70	13	46	2	20	38	6049.73	1222	42
L May 2018	88	16	71	3	36	32	6049.80	1223	71
* Jun 2018	6	3	24	4	42	42	6044.23	1159	63
Jul 2018	4	0	24	4	56	47	6036.53	1076	59
Aug 2018	25	0	42	3	48	47	6031.06	1019	59
Sep 2018	25	0	36	2	27	39	6027.84	987	52
WY 2018	335	36	356	24	245	388			582
Oct 2018	22	0	25	1	11	26	6026.50	974	38
Nov 2018	20	0	18	1	1	21	6025.98	969	29
Dec 2018	15	0	14	0	1	22	6025.00	959	29
Jan 2019	15	0	14	0	0	22	6024.15	951	28
Feb 2019	19	0	19	1	0	19	6024.00	950	24
Mar 2019	54	0	52	1	5	22	6026.45	973	32
Apr 2019	110	2	94	2	21	21	6031.46	1023	50
May 2019	230	7	200	3	36	22	6044.60	1163	136
Jun 2019	180	3	158	4	52	27	6051.14	1239	144
Jul 2019	35	0	52	4	57	31	6047.72	1199	81
Aug 2019	30	0	52	3	48	36	6044.67	1164	65
Sep 2019	30	0	47	2	26	31	6043.46	1151	54
WY 2019	760	12	743	23	258	299			709
Oct 2019	37	0	42	2	10	47	6041.97	1134	70
Nov 2019	30	0	24	1	0	34	6041.01	1124	50
Dec 2019	25	0	21	1	0	25	6040.55	1119	40
Jan 2020	22	0	18	1	0	22	6040.17	1115	36
Feb 2020	30	0	27	1	0	30	6039.81	1111	43
Mar 2020	92	0	86	1	6	92	6038.53	1097	114
Apr 2020	170	2	146	2	22	170	6034.01	1049	223
May 2020	277	7	269	3	36	277	6029.33	1002	423
Jun 2020	224	3	221	3	53	224	6023.32	943	375

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Lake Powell



	Unreg	Regulated	Evap	PowerPlant	Bypass	Total	Reservoir Elev	Bank	EOM	Lees
	Inflow	Inflow	Losses	Release	Release	Release	End of Month	Storage	Storage	Ferry Gage
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)	(1000 Ac-Ft)
* Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
H Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	929
I Sep 2017	196	410	57	663	0	663	3628.31	5227	14664	671
WY 2017	11905	11396	409	8874	126	9000				9152
S Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	634
T Nov 2017	387	454	37	630	0	630	3625.29	5200	14332	619
O Dec 2017	299	483	29	740	0	740	3622.85	5179	14068	733
R Jan 2018	262	442	9	860	0	860	3619.14	5147	13672	861
I Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	750
C Mar 2018	332	395	16	800	0	800	3612.23	5090	12956	835
A Apr 2018	382	419	25	705	0	705	3609.39	5067	12669	738
L May 2018	1214	968	29	705	0	705	3611.54	5085	12886	730
* Jun 2018	883	635	45	760	0	760	3609.98	5072	12728	783
Jul 2018	196	350	53	860	0	860	3604.73	5030	12207	879
Aug 2018	215	391	51	900	0	900	3599.35	4989	11689	918
Sep 2018	225	389	46	671	0	671	3596.14	4965	11386	682
WY 2018	5113	5847	388	9000	0	9000				9160
Oct 2018	360	444	31	640	0	640	3593.87	4948	11175	646
Nov 2018	380	426	30	640	0	640	3591.42	4930	10949	640
Dec 2018	300	378	23	720	0	720	3587.67	4903	10611	725
Jan 2019	280	356	7	860	0	860	3582.30	4865	10138	871
Feb 2019	280	340	7	750	0	750	3577.79	4834	9751	754
Mar 2019	460	475	12	800	0	800	3574.06	4809	9439	805
Apr 2019	720	652	19	710	0	710	3573.20	4803	9368	718
May 2019	1700	1531	23	710	0	710	3581.95	4862	10107	716
Jun 2019	2250	1788	38	750	0	750	3592.34	4936	11033	758
Jul 2019	760	689	47	850	0	850	3590.22	4921	10841	869
Aug 2019	370	470	46	900	0	900	3585.29	4886	10400	918
Sep 2019	340	442	42	670	0	670	3582.44	4866	10150	681
WY 2019	8200	7991	325	9000	0	9000				9100
Oct 2019	455	519	28	640	0	640	3580.84	4855	10012	646
Nov 2019	447	472	27	640	0	640	3578.72	4840	9831	640
Dec 2019	363	406	21	720	0	720	3575.03	4815	9520	725
Jan 2020	361	400	6	860	0	860	3569.77	4781	9089	871
Feb 2020	393	423	6	750	0	750	3565.90	4756	8780	754
Mar 2020	665	612	11	800	0	800	3563.55	4741	8596	805
Apr 2020	1056	970	17	710	0	710	3566.41	4759	8820	718
May 2020	2343	2277	22	710	0	710	3583.60	4874	10251	716
Jun 2020	2666	2343	39	750	0	750	3599.37	4989	11690	758

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



	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)
* Jul 2017	850	89	66	885	14.4	31	885	646	1079.03	9931
H Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
I Sep 2017	663	70	58	600	10.1	21	591	662	1082.05	10182
WY 2017	9000	995	541	8620		236	8591			
S Oct 2017	640	44	43	596	9.7	23	595	663	1082.30	10202
T Nov 2017	630	40	42	731	12.3	16	731	656	1080.95	10090
O Dec 2017	740	43	37	594	9.7	12	593	664	1082.52	10221
R Jan 2018	860	78	30	449	7.3	10	448	692	1087.50	10642
I Feb 2018	730	60	28	687	12.4	10	693	696	1088.21	10703
C Mar 2018	800	70	32	833	13.5	14	832	695	1088.11	10694
A Apr 2018	705	43	39	1015	17.1	21	1015	675	1084.49	10387
L May 2018	705	23	44	1055	17.1	28	1054	651	1080.00	10011
* Jun 2018	760	28	53	986	16.6	30	985	634	1076.81	9748
Jul 2018	860	81	65	834	13.6	37	834	634	1076.87	9753
Aug 2018	900	112	70	740	12.0	35	740	644	1078.79	9911
Sep 2018	671	105	58	795	13.4	28	795	638	1077.60	9813
WY 2018	9000	727	541	9315		264	9315			
Oct 2018	640	69	42	604	9.8	29	604	640	1077.99	9845
Nov 2018	640	61	42	761	12.8	22	761	632	1076.57	9729
Dec 2018	720	50	36	677	11.0	15	677	635	1077.05	9768
Jan 2019	860	78	30	619	10.1	12	619	652	1080.21	10029
Feb 2019	750	93	27	685	12.3	14	685	659	1081.53	10138
Mar 2019	800	56	31	1055	17.2	21	1055	644	1078.69	9903
Apr 2019	710	48	38	1059	17.8	23	1059	622	1074.54	9563
May 2019	710	31	43	967	15.7	27	967	604	1071.08	9286
Jun 2019	750	12	51	907	15.2	33	907	590	1068.37	9070
Jul 2019	850	81	63	826	13.4	36	826	590	1068.44	9076
Aug 2019	900	112	67	740	12.0	34	740	600	1070.46	9236
Sep 2019	670	105	56	734	12.3	27	734	598	1069.98	9198
WY 2019	9000	796	524	9633		293	9633			
Oct 2019	640	69	41	510	8.3	28	510	606	1071.51	9320
Nov 2019	640	61	41	670	11.3	21	670	604	1071.15	9291
Dec 2019	720	50	35	594	9.7	14	594	612	1072.64	9410
Jan 2020	860	78	29	607	9.9	14	607	629	1075.98	9680
Feb 2020	750	93	27	663	11.5	17	663	638	1077.54	9808
Mar 2020	800	56	30	988	16.1	22	988	626	1075.43	9636
Apr 2020	710	48	37	997	16.8	25	997	608	1071.92	9353
May 2020	710	31	42	917	14.9	31	917	593	1068.99	9120
Jun 2020	750	12	50	929	15.6	31	929	578	1066.03	8887

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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)
*	Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
H	Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
I	Sep 2017	600	-11	18	656	0	656	11.0	639.47	1603
WY 2017		8620	-183	199	8261	0	8261			
S	Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
T	Nov 2017	731	-18	11	595	0	595	10.0	640.07	1619
O	Dec 2017	594	-16	9	552	0	552	9.0	640.68	1636
R	Jan 2018	449	2	10	437	0	437	7.1		1641
I	Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
C	Mar 2018	833	-1	13	836	0	836	13.6	642.57	1687
A	Apr 2018	1015	-3	17	1001	0	1001	16.8	642.40	1682
L	May 2018	1055	-11	22	1001	0	1001	16.3	643.17	1703
*	Jun 2018	986	-21	26	909	0	909	15.3	644.29	1734
	Jul 2018	834	-15	25	842	0	842	13.7	642.50	1685
	Aug 2018	740	-12	23	719	0	719	11.7	642.00	1671
	Sep 2018	795	-12	18	818	0	818	13.7	640.01	1617
WY 2018		9315	-113	198	8989	0	8989			
	Oct 2018	604	-4	15	769	0	769	12.5	633.00	1434
	Nov 2018	761	-12	10	686	0	686	11.5	635.00	1486
	Dec 2018	677	-12	9	559	0	559	9.1	638.71	1583
	Jan 2019	619	-19	10	507	0	507	8.2	641.80	1666
	Feb 2019	685	-15	10	660	0	660	11.9	641.80	1666
	Mar 2019	1055	-17	13	990	0	990	16.1	643.05	1700
	Apr 2019	1059	-20	17	1024	0	1024	17.2	643.00	1699
	May 2019	967	-12	22	933	0	933	15.2	643.00	1699
	Jun 2019	907	-15	25	867	0	867	14.6	643.00	1699
	Jul 2019	826	-15	25	812	0	812	13.2	642.00	1671
	Aug 2019	740	-12	23	706	0	706	11.5	642.00	1671
	Sep 2019	734	-12	18	757	0	757	12.7	640.01	1618
WY 2019		9633	-166	197	9269	0	9269			
	Oct 2019	510	-4	15	675	0	675	11.0	633.00	1434
	Nov 2019	670	-12	10	595	0	595	10.0	635.00	1486
	Dec 2019	594	-12	9	476	0	476	7.7	638.71	1583
	Jan 2020	607	-19	10	495	0	495	8.1	641.80	1666
	Feb 2020	663	-15	10	638	0	638	11.1	641.80	1666
	Mar 2020	988	-17	13	923	0	923	15.0	643.05	1700
	Apr 2020	997	-20	17	962	0	962	16.2	643.00	1699
	May 2020	917	-12	22	882	0	882	14.3	643.00	1699
	Jun 2020	929	-15	25	888	0	888	14.9	643.00	1699

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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)
*	Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
H	Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
I	Sep 2017	656	16	15	481	8.1	56	134	447.17	564	104	1.7
	WY 2017	8261	220	140	6204		664	1406			1513	
S	Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
T	Nov 2017	595	12	9	349	5.9	89	127	447.86	577	99	1.7
O	Dec 2017	552	17	7	335	5.5	100	144	446.80	557	109	1.8
R	Jan 2018	437	3	6	329	5.3	29	90	445.81	539	125	2.0
I	Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
C	Mar 2018	836	-3	9	637	10.4	61	139	447.46	570	195	3.2
A	Apr 2018	1001	-8	11	735	12.4	75	168	447.13	564	175	2.9
L	May 2018	1001	10	13	697	11.3	87	178	448.51	590	124	2.0
*	Jun 2018	909	6	15	712	12.0	91	88	448.43	588	136	2.3
	Jul 2018	842	21	17	668	10.9	99	74	448.00	580	132	2.2
	Aug 2018	719	23	17	590	9.6	99	33	447.50	571	93	1.5
	Sep 2018	818	17	15	533	9.0	96	181	447.50	570	96	1.6
	WY 2018	8989	109	139	6492		908	1462			1495	
	Oct 2018	769	23	12	487	7.9	99	187	447.50	571	65	1.1
	Nov 2018	686	16	9	405	6.8	95	187	447.50	571	99	1.7
	Dec 2018	559	18	7	301	4.9	98	186	446.50	552	109	1.8
	Jan 2019	507	21	6	318	5.2	78	121	446.50	552	138	2.2
	Feb 2019	660	11	8	485	8.7	51	121	446.50	552	160	2.9
	Mar 2019	990	7	9	718	11.7	69	189	446.70	555	198	3.2
	Apr 2019	1024	16	11	710	11.9	88	184	448.70	593	175	2.9
	May 2019	933	15	13	642	10.4	90	189	448.70	593	104	1.7
	Jun 2019	867	13	16	683	11.5	88	79	448.70	593	105	1.8
	Jul 2019	812	21	17	647	10.5	90	79	448.00	580	111	1.8
	Aug 2019	706	23	17	589	9.6	90	29	447.50	571	100	1.6
	Sep 2019	757	17	15	509	8.6	88	152	447.50	570	89	1.5
	WY 2019	9269	200	139	6494		1027	1703			1452	
	Oct 2019	675	23	12	490	8.0	48	141	447.50	571	74	1.2
	Nov 2019	595	16	9	408	6.9	48	141	447.50	571	116	1.9
	Dec 2019	476	18	7	313	5.1	48	141	446.50	552	131	2.1
	Jan 2020	495	21	6	313	5.1	86	106	446.50	552	134	2.2
	Feb 2020	638	11	8	479	8.3	57	100	446.50	552	155	2.7
	Mar 2020	923	7	9	708	11.5	76	125	446.70	555	191	3.1
	Apr 2020	962	16	11	699	11.7	97	125	448.70	593	168	2.8
	May 2020	882	15	13	635	10.3	99	137	448.70	593	100	1.6
	Jun 2020	888	13	16	675	11.3	97	100	448.70	593	102	1.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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
*	Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
H	Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
I	Sep 2017	600	10.1	1082.05	10182	51	440.10	976.1	230.7	66	384.8
WY 2017		8620							3347.1		
S	Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
T	Nov 2017	731	12.3	1080.95	10090	-113	435.01	996.0	287.9	63	393.6
O	Dec 2017	594	9.7	1082.52	10221	131	439.05	821.0	235.7	52	396.6
R	Jan 2018	449	7.3	1087.50	10642	421	442.14	834.0	176.5	51	392.9
I	Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
C	Mar 2018	833	13.5	1088.11	10694	-9	442.23	1005.9	333.9	62	400.8
A	Apr 2018	1015	17.1	1084.49	10387	-308	437.15	880.9	406.2	55	400.0
L	May 2018	1055	17.1	1080.00	10011	-376	432.39	1385.9	412.1	88	390.8
*	Jun 2018	986	16.6	1076.81	9748	-263	428.91	1552.0	378.6	100	384.1
	Jul 2018	834	13.6	1076.87	9753	5	423.13	1552.0	321.5	100	385.7
	Aug 2018	740	12.0	1078.79	9911	157	424.86	1562.0	282.9	100	382.4
	Sep 2018	795	13.4	1077.60	9813	-98	426.03	1552.0	308.0	100	387.7
WY 2018		9315							3647.4		
	Oct 2018	604	9.8	1077.99	9845	32	430.49	1178.0	234.0	76	387.2
	Nov 2018	761	12.8	1076.57	9729	-116	433.08	1060.0	302.3	68	397.5
	Dec 2018	677	11.0	1077.05	9768	39	429.46	1248.0	260.6	80	384.9
	Jan 2019	619	10.1	1080.21	10029	261	430.93	990.0	242.0	63	391.2
	Feb 2019	685	12.3	1081.53	10138	110	432.16	999.0	271.5	63	396.6
	Mar 2019	1055	17.2	1078.69	9903	-235	430.90	993.0	422.2	64	400.2
	Apr 2019	1059	17.8	1074.54	9563	-340	425.94	1135.9	415.9	74	392.8
	May 2019	967	15.7	1071.08	9286	-278	422.18	1116.0	375.5	74	388.3
	Jun 2019	907	15.2	1068.37	9070	-215	416.35	1499.0	341.3	100	376.1
	Jul 2019	826	13.4	1068.44	9076	6	415.37	1499.0	312.2	100	378.2
	Aug 2019	740	12.0	1070.46	9236	160	416.73	1512.0	277.8	100	375.3
	Sep 2019	734	12.3	1069.98	9198	-39	418.13	1512.0	277.0	100	377.5
WY 2019		9633							3732.3		
	Oct 2019	510	8.3	1071.51	9320	122	422.23	1341.0	195.7	88	383.5
	Nov 2019	670	11.3	1071.15	9291	-29	427.27	1018.9	258.9	67	386.7
	Dec 2019	594	9.7	1072.64	9410	119	424.57	1203.8	226.2	80	380.9
	Jan 2020	607	9.9	1075.98	9680	270	426.63	946.7	234.8	63	386.7
	Feb 2020	663	11.5	1077.54	9808	128	428.07	947.4	258.5	63	389.8
	Mar 2020	988	16.1	1075.43	9636	-172	427.30	946.0	388.1	64	393.0
	Apr 2020	997	16.8	1071.92	9353	-283	423.02	1077.6	385.8	74	386.8
	May 2020	917	14.9	1068.99	9120	-233	419.84	1059.1	351.7	74	383.6
	Jun 2020	929	15.6	1066.03	8887	-233	414.15	1408.7	348.4	100	375.0

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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
*	Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
H	Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
I	Sep 2017	656	11.0	639.47	1603	-86	138.07	253.3	83.2	99	126.8
WY 2017		8261							1061.4		
S	Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
T	Nov 2017	595	10.0	640.07	1619	107	138.81	151.3	73.1	59	122.7
O	Dec 2017	552	9.0	640.68	1636	17	139.44	131.6	69.5	52	126.0
R	Jan 2018	437	7.1		1641	5	141.78	159.6	55.0	63	125.9
I	Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
C	Mar 2018	836	13.6	642.57	1687	-17	139.99	189.2	105.4	74	126.1
A	Apr 2018	1001	16.8	642.40	1682	-5	141.14	207.4	125.1	81	125.0
L	May 2018	1001	16.3	643.17	1703	21	141.89	204.0	126.2	80	126.1
*	Jun 2018	909	15.3	644.29	1734	31	143.00	255.0	115.0	100	126.6
	Jul 2018	842	13.7	642.50	1685	-49	136.44	255.0	106.1	100	126.0
	Aug 2018	719	11.7	642.00	1671	-14	135.25	255.0	90.4	100	125.7
	Sep 2018	818	13.7	640.01	1617	-54	133.94	255.0	101.3	100	123.9
WY 2018		8989							1124.9		
	Oct 2018	769	12.5	633.00	1434	-183	130.59	207.3	92.5	81	120.2
	Nov 2018	686	11.5	635.00	1486	51	129.19	170.0	81.2	67	118.3
	Dec 2018	559	9.1	638.71	1583	97	132.25	167.8	68.1	66	121.8
	Jan 2019	507	8.2	641.80	1666	83	134.43	210.6	63.4	83	125.2
	Feb 2019	660	11.9	641.80	1666	0	136.73	187.6	82.6	74	125.2
	Mar 2019	990	16.1	643.05	1700	34	137.26	190.8	123.2	75	124.4
	Apr 2019	1024	17.2	643.00	1699	-1	136.07	255.0	127.6	100	124.6
	May 2019	933	15.2	643.00	1699	0	136.04	255.0	116.8	100	125.2
	Jun 2019	867	14.6	643.00	1699	0	136.04	255.0	108.7	100	125.4
	Jul 2019	812	13.2	642.00	1671	-27	135.51	255.0	101.9	100	125.4
	Aug 2019	706	11.5	642.00	1671	0	134.99	255.0	88.6	100	125.5
	Sep 2019	757	12.7	640.01	1618	-54	133.94	255.0	94.0	100	124.2
WY 2019		9269							1148.6		
	Oct 2019	675	11.0	633.00	1434	-183	130.59	207.3	81.5	81	120.8
	Nov 2019	595	10.0	635.00	1486	51	129.19	170.0	70.8	67	118.9
	Dec 2019	476	7.7	638.71	1583	97	132.25	167.8	58.2	66	122.3
	Jan 2020	495	8.1	641.80	1666	83	133.85	230.3	62.1	90	125.3
	Feb 2020	638	11.1	641.80	1666	0	136.73	187.6	80.1	74	125.5
	Mar 2020	923	15.0	643.05	1700	34	137.26	190.8	115.1	75	124.8
	Apr 2020	962	16.2	643.00	1699	-1	136.07	255.0	120.2	100	124.9
	May 2020	882	14.3	643.00	1699	0	136.04	255.0	110.7	100	125.5
	Jun 2020	888	14.9	643.00	1699	0	136.04	255.0	111.3	100	125.3

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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
*	Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
H	Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
I	Sep 2017	481	8.1	447.17	564	-21	81.08	120.0	33.8	100	70.2
WY 2017		6204							434.1		
S	Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
T	Nov 2017	349	5.9	447.86	577	30	81.65	90.0	24.1	75	69.2
O	Dec 2017	335	5.5	446.80	557	-20	81.55	92.9	22.5	77	67.0
R	Jan 2018	329	5.3	445.81	539	-18	80.05	117.1	22.8	98	69.2
I	Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
C	Mar 2018	638	10.4	447.46	570	-20	81.79	102.6	44.9	85	70.4
A	Apr 2018	735	12.4	447.13	564	-6	81.11	120.0	50.8	100	69.1
L	May 2018	697	11.3	448.51	590	26	82.36	120.0	48.5	100	69.6
*	Jun 2018	712	12.0	448.43	588	-1	80.33	120.0	49.7	100	69.9
	Jul 2018	668	10.9	448.00	580	-8	75.58	120.0	44.1	100	66.0
	Aug 2018	590	9.6	447.50	571	-9	75.13	120.0	38.6	100	65.4
	Sep 2018	533	9.0	447.50	570	0	74.89	120.0	34.7	100	65.1
WY 2018		6492							444.5		
	Oct 2018	487	7.9	447.50	571	0	76.19	91.9	32.1	77	66.0
	Nov 2018	405	6.8	447.50	571	0	75.83	99.0	26.4	83	65.2
	Dec 2018	301	4.9	446.50	552	-19	74.40	120.0	18.9	100	62.8
	Jan 2019	318	5.2	446.50	552	0	75.02	95.8	20.2	80	63.6
	Feb 2019	485	8.7	446.50	552	0	75.21	92.1	31.8	77	65.5
	Mar 2019	718	11.7	446.70	555	4	74.34	112.3	46.9	94	65.3
	Apr 2019	710	11.9	448.70	593	38	75.08	120.0	46.7	100	65.8
	May 2019	642	10.4	448.70	593	0	76.05	120.0	42.6	100	66.3
	Jun 2019	683	11.5	448.70	593	0	76.05	120.0	45.4	100	66.5
	Jul 2019	647	10.5	448.00	580	-13	75.71	120.0	42.7	100	66.1
	Aug 2019	589	9.6	447.50	571	-9	75.13	120.0	38.5	100	65.4
	Sep 2019	509	8.6	447.50	570	0	74.89	120.0	33.1	100	65.0
WY 2019		6494							425.4		
	Oct 2019	490	8.0	447.50	571	0	76.29	90.0	32.4	75	66.1
	Nov 2019	408	6.9	447.50	571	0	76.14	93.0	26.7	78	65.5
	Dec 2019	313	5.1	446.50	552	-19	74.40	120.0	19.7	100	63.0
	Jan 2020	313	5.1	446.50	552	0	75.02	95.8	19.9	80	63.6
	Feb 2020	479	8.3	446.50	552	0	75.21	92.1	31.3	77	65.4
	Mar 2020	708	11.5	446.70	555	4	74.34	112.3	46.2	94	65.3
	Apr 2020	699	11.7	448.70	593	38	75.08	120.0	46.0	100	65.8
	May 2020	635	10.3	448.70	593	0	76.05	120.0	42.1	100	66.3
	Jun 2020	675	11.3	448.70	593	0	76.05	120.0	44.9	100	66.5

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 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
* Jul 2017	399	71	35	13	18	8
H Aug 2017	421	56	34	0	22	9
I Sep 2017	306	56	35	33	22	6
Summer 2017	2033	492	202	207	93	33
S Oct 2017	294	42	30	37	21	7
T Nov 2017	288	55	12	14	8	7
O Dec 2017	339	68	27	33	19	6
R Jan 2018	394	68	17	21	12	6
I Feb 2018	335	60	9	12	3	5
C Mar 2018	364	41	12	16	9	1
Winter 2018	2013	334	107	133	71	31
A Apr 2018	318	39	23	27	16	5
L May 2018	318	63	23	33	20	7
* Jun 2018	343	50	27	34	20	8
Jul 2018	345	44	29	38	18	8
Aug 2018	357	45	22	29	14	7
Sep 2018	264	46	19	27	13	7
Summer 2018	1946	288	144	189	102	42
Oct 2018	250	41	12	17	8	7
Nov 2018	248	39	5	7	4	6
Dec 2018	279	41	5	7	4	6
Jan 2019	329	41	5	7	4	6
Feb 2019	284	37	5	7	3	5
Mar 2019	300	51	6	9	5	5
Winter 2019	1691	248	37	53	27	36
Apr 2019	265	49	13	20	10	6
May 2019	266	72	44	67	23	7
Jun 2019	287	61	12	22	15	8
Jul 2019	329	34	21	28	14	10
Aug 2019	345	34	22	29	14	7
Sep 2019	256	33	20	26	13	6
Summer 2019	1748	281	132	191	90	43
Oct 2019	243	34	12	16	9	6
Nov 2019	242	32	4	5	3	6
Dec 2019	271	34	3	5	3	6
Jan 2020	320	34	3	5	3	6
Feb 2020	277	31	3	5	3	5
Mar 2020	292	22	5	8	5	5
Winter 2020	1352	164	26	36	21	28
Apr 2020	259	22	12	19	11	6
May 2020	265	70	49	69	23	7
Jun 2020	290	61	32	45	22	9

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2018 24-Month Study

Most Probable Inflow*

Flood Control Criteria

Beginning of Month Conditions



Date	Flaming	Blue	Lake	Upper Basin	Lake	Total	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space		Mead	Mead	Sys	
	Gorge	Mesa	Navajo	Powell	Total			Mead	KAF	Gorge	Mesa	Navajo	Allow	Powell	Mead	Total	Required	Sched Rel
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jul 2018	251	359	537	11594	12741	17629	30369	22	-77	-23	-78	11594	17629	29144	1500	834	0	29.8
**** CREDITABLE SPACE ****								**** EFFECTIVE SPACE ****										
Aug 2018	245	425	620	12115	13404	17624	31028	245	425	620	1289	12115	17624	31028	1500	740	0	29.2
Sep 2018	308	470	677	12633	14088	17466	31555	308	470	677	1455	12633	17466	31555	2270	795	0	28.6
Oct 2018	393	514	709	12936	14552	17564	32115	393	514	709	1615	12936	17564	32115	3040	604	0	28.1
Nov 2018	447	536	722	13147	14852	17532	32384	447	536	722	1705	13147	17532	32384	3810	761	0	27.8
Dec 2018	497	533	727	13373	15130	17648	32778	497	533	727	1757	13373	17648	32778	4580	677	0	27.5
Jan 2019	568	533	737	13711	15549	17609	33158	568	533	737	1838	13711	17609	33158	5350	619	0	27.3
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2019	568	533	737	13711	15549	17609	33158	97	225	425	746	13711	17609	32066	5350	619	0	27.3
Feb 2019	635	537	745	14184	16101	17348	33449	162	228	433	823	14184	17348	32356	1500	685	0	26.9
Mar 2019	692	541	746	14571	16549	17239	33788	217	233	433	883	14571	17239	32693	1500	1055	0	26.4
Apr 2019	738	539	723	14883	16883	17474	34357	261	231	403	895	14883	17474	33252	1500	1059	0	26.1
May 2019	747	529	673	14954	16903	17814	34717	264	226	330	820	14954	17814	33588	1500	967	0	26.7
Jun 2019	755	533	533	14215	16036	18091	34127	266	221	152	639	14215	18091	32945	1500	907	0	27.8
Jul 2019	610	343	457	13289	14699	18307	33005	108	16	21	144	13289	18307	31739	1500	826	0	27.6
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2019	520	319	497	13481	14817	18301	33118	520	319	497	1336	13481	18301	33118	1500	740	0	27.3
Sep 2019	551	336	532	13922	15341	18141	33482	551	336	532	1419	13922	18141	33482	2270	734	0	26.8
Oct 2019	602	364	545	14172	15682	18179	33862	602	364	545	1511	14172	18179	33862	3040	510	0	26.5
Nov 2019	646	370	562	14310	15889	18057	33946	646	370	562	1578	14310	18057	33946	3810	670	0	26.3
Dec 2019	689	352	572	14491	16105	18086	34191	689	352	572	1614	14491	18086	34191	4580	594	0	26.2
Jan 2020	748	338	577	14802	16465	17967	34432	748	338	577	1663	14802	17967	34432	5350	607	0	26.1
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2020	748	338	577	14802	16465	17967	34432	404	338	-36	706	14802	17967	33475	5350	607	0	26.1
Feb 2020	802	324	581	15233	16941	17697	34638	456	324	-32	748	15233	17697	33678	1500	663	0	25.8
Mar 2020	846	312	585	15542	17285	17569	34854	498	312	-29	781	15542	17569	33891	1500	988	0	25.6
Apr 2020	811	290	599	15726	17426	17741	35167	457	290	-23	725	15726	17741	34192	1500	997	0	25.6
May 2020	745	256	647	15502	17150	18024	35174	383	256	1	641	15502	18024	34167	1500	917	0	26.9
Jun 2020	699	201	694	14071	15665	18257	33922	329	201	10	540	14071	18257	32868	1500	929	0	28.4

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