

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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The operation of Lake Powell and Lake Mead in this October 2017 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 2017 Annual Operating Plan (AOP) and draft 2018 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 operational tier for water year 2018 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 2018. This October 2017 24-Month Study indicates that, consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is projected to occur and Lake Powell is projected to release 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 years 2017 and 2018.

The 2018 operational tier determinations will be documented in the 2018 AOP, which is currently in the final stages of development.

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

The 2017 AOP is available for download at: <http://www.usbr.gov/lc/region/g4000/aop/AOP17.pdf>

The draft 2018 AOP is available for download at: https://www.usbr.gov/lc/region/g4000/AOP2018/AOP18_draft.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 September was 0.196 maf or 48 percent of the 30-year average from 1981 to 2010. The forecast for October unregulated inflow into Lake Powell is 0.510 maf or 100 percent of the 30-year average. The observed 2017 April through July unregulated inflow is 8.173 maf or 114 percent of average.

In this study, the calendar year 2017 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 0.652 maf. The calendar year 2017 diversion for the Central Arizona Project (CAP) is projected to be 1.394 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.248 maf for calendar year 2017.

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



October 2017 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)
* Oct 2016	57	1	0	57	57	6490.08	228
H Nov 2016	62	1	0	59	59	6490.44	230
I Dec 2016	37	1	0	63	63	6486.33	203
S Jan 2017	45	1	0	63	63	6483.20	184
T Feb 2017	51	1	0	57	57	6482.06	178
O Mar 2017	180	1	0	150	150	6486.90	207
R Apr 2017	225	1	0	304	304	6472.17	128
I May 2017	430	1	54	373	427	6472.55	129
C Jun 2017	732	2	74	469	543	6502.49	317
A Jul 2017	332	3	88	230	319	6503.83	328
L Aug 2017	102	2	95	61	156	6496.34	271
* Sep 2017	66	2	69	4	72	6495.21	263
WY 2017	2319	15	379	1890	2270		
Oct 2017	90	1	78	0	78	6496.72	275
Nov 2017	66	1	76	0	76	6495.23	264
Dec 2017	50	1	78	0	78	6491.10	235
Jan 2018	45	1	78	0	78	6485.92	202
Feb 2018	40	1	71	0	71	6480.58	170
Mar 2018	60	1	90	0	90	6474.57	140
Apr 2018	93	1	93	27	120	6468.28	112
May 2018	185	1	96	64	160	6473.78	136
Jun 2018	325	2	101	61	162	6499.72	297
Jul 2018	210	3	101	61	162	6505.56	342
Aug 2018	85	2	95	0	95	6504.01	330
Sep 2018	51	2	75	0	75	6500.66	304
WY 2018	1300	15	1032	213	1245		
Oct 2018	52	1	73	0	73	6497.78	282
Nov 2018	44	1	70	0	70	6493.98	255
Dec 2018	32	1	73	0	73	6487.81	214
Jan 2019	30	1	73	0	73	6480.76	171
Feb 2019	28	1	66	0	66	6473.09	133
Mar 2019	53	0	73	0	73	6468.36	112
Apr 2019	85	1	71	0	71	6471.54	126
May 2019	164	1	98	30	129	6478.63	160
Jun 2019	299	2	102	58	160	6499.70	297
Jul 2019	178	3	101	28	129	6505.59	342
Aug 2019	77	2	97	0	97	6502.68	319
Sep 2019	46	2	71	0	71	6499.09	292
WY 2019	1087	15	967	117	1084		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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)
* Oct 2016	70	70	7	85	0	85	128	6025.69	3186	119
H Nov 2016	73	70	4	77	0	77	128	6025.41	3175	112
I Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
S Jan 2017	49	67	2	110	0	110	124	6023.01	3087	149
T Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
O Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
R Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
I May 2017	582	580	8	278	171	449	129	6026.15	3203	857
C Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
A Jul 2017	387	374	14	180	48	228	142	6034.61	3531	314
L Aug 2017	120	174	13	143	0	143	143	6035.05	3548	172
* Sep 2017	87	93	11	141	0	141	140	6033.63	3491	160
WY 2017	3153	3104	81	2016	712	2728				4222
Oct 2017	110	98	8	107	0	107	140	6033.24	3476	131
Nov 2017	85	95	4	142	0	142	138	6032.01	3427	173
Dec 2017	56	84	2	172	0	172	134	6029.80	3341	197
Jan 2018	64	97	2	172	0	172	131	6027.86	3267	194
Feb 2018	64	95	2	156	0	156	129	6026.26	3207	178
Mar 2018	120	150	3	154	0	154	129	6026.09	3201	219
Apr 2018	145	172	5	149	0	149	130	6026.56	3218	339
May 2018	270	245	8	215	0	215	130	6027.14	3240	715
Jun 2018	410	247	10	271	0	271	129	6026.25	3207	721
Jul 2018	250	202	13	100	0	100	132	6028.51	3292	175
Aug 2018	99	109	13	100	0	100	132	6028.43	3289	121
Sep 2018	62	86	11	97	0	97	131	6027.87	3268	112
WY 2018	1735	1680	80	1833	0	1833				3273
Oct 2018	64	84	7	100	0	100	131	6027.29	3246	128
Nov 2018	53	80	3	97	0	97	130	6026.77	3226	126
Dec 2018	35	75	2	100	0	100	129	6026.10	3201	125
Jan 2019	40	83	2	100	0	100	128	6025.60	3183	125
Feb 2019	45	82	2	90	0	90	128	6025.35	3173	118
Mar 2019	102	122	3	100	0	100	128	6025.85	3192	177
Apr 2019	134	119	5	97	0	97	129	6026.31	3209	312
May 2019	245	210	8	160	0	160	131	6027.41	3250	692
Jun 2019	390	251	10	146	0	146	134	6029.79	3341	566
Jul 2019	210	162	14	98	0	98	136	6031.02	3388	198
Aug 2019	89	109	13	98	0	98	136	6030.97	3386	124
Sep 2019	55	81	11	95	0	95	135	6030.32	3362	114
WY 2019	1462	1459	80	1281	0	1281				2804

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 24-Month Study

Most Probable Inflow*

Taylor Park Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Oct 2016	5	6	9310.23	70
H Nov 2016	4	5	9309.76	70
I Dec 2016	5	5	9309.56	69
S Jan 2017	6	5	9309.76	70
T Feb 2017	4	5	9309.43	69
O Mar 2017	6	6	9309.23	69
R Apr 2017	13	9	9312.04	73
I May 2017	30	19	9318.55	84
C Jun 2017	62	45	9327.76	102
A Jul 2017	24	26	9326.95	100
L Aug 2017	12	25	9320.31	88
* Sep 2017	8	18	9314.58	77
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WY 2017	179	173		
Oct 2017	7	8	9314.06	77
Nov 2017	6	6	9313.76	76
Dec 2017	5	6	9313.16	75
Jan 2018	5	6	9312.56	74
Feb 2018	4	6	9311.33	72
Mar 2018	4	6	9310.09	70
Apr 2018	8	8	9310.09	70
May 2018	27	17	9316.11	80
Jun 2018	42	22	9326.91	100
Jul 2018	17	22	9324.33	95
Aug 2018	8	20	9317.82	83
Sep 2018	7	16	9312.56	74
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WY 2018	140	143		
Oct 2018	6	8	9311.61	72
Nov 2018	5	6	9311.00	71
Dec 2018	5	6	9310.18	70
Jan 2019	4	6	9309.13	69
Feb 2019	4	6	9307.72	66
Mar 2019	4	6	9306.69	65
Apr 2019	9	6	9308.49	68
May 2019	28	20	9313.62	76
Jun 2019	42	22	9324.59	96
Jul 2019	20	22	9323.62	94
Aug 2019	10	20	9318.35	84
Sep 2019	7	16	9313.34	75
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WY 2019	145	144		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 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)
* Oct 2016	32	33	1	90	0	90	7493.44	608
H Nov 2016	26	27	0	33	0	33	7492.53	601
I Dec 2016	26	26	0	35	0	35	7491.43	593
S Jan 2017	29	28	0	34	0	34	7490.68	587
T Feb 2017	28	29	0	44	1	44	7488.71	571
O Mar 2017	70	70	0	69	0	70	7488.71	571
R Apr 2017	145	140	1	53	0	53	7499.55	658
I May 2017	244	233	1	151	65	293	7491.98	597
C Jun 2017	392	373	1	139	35	175	7515.35	793
A Jul 2017	135	137	2	113	0	110	7518.20	819
L Aug 2017	84	96	1	111	0	111	7516.38	802
* Sep 2017	35	45	1	115	0	114	7508.43	732
WY 2017	1245	1238	9	987	101	1163		
Oct 2017	40	41	1	75	0	75	7504.35	698
Nov 2017	35	36	0	71	0	71	7500.07	662
Dec 2017	29	30	0	117	0	117	7489.16	575
Jan 2018	28	29	0	75	0	75	7483.05	528
Feb 2018	24	26	0	37	0	37	7481.56	517
Mar 2018	36	38	0	38	0	38	7481.51	517
Apr 2018	69	69	1	50	0	50	7483.92	535
May 2018	190	180	1	146	0	146	7488.31	568
Jun 2018	255	235	1	52	0	52	7510.48	750
Jul 2018	93	98	2	90	0	90	7511.26	757
Aug 2018	52	64	1	98	0	98	7507.24	722
Sep 2018	49	58	1	86	0	86	7503.84	693
WY 2018	900	903	9	934	0	934		
Oct 2018	46	47	1	60	0	60	7502.25	680
Nov 2018	34	35	0	59	0	59	7499.38	656
Dec 2018	26	27	0	107	0	107	7489.32	576
Jan 2019	24	26	0	83	0	83	7481.78	519
Feb 2019	22	25	0	32	0	32	7480.71	511
Mar 2019	36	38	0	35	0	35	7481.06	514
Apr 2019	77	74	1	45	0	45	7484.93	543
May 2019	221	213	1	153	0	153	7492.55	601
Jun 2019	261	241	1	72	0	72	7512.63	769
Jul 2019	117	119	2	87	0	87	7516.04	799
Aug 2019	63	73	1	96	0	96	7513.34	775
Sep 2019	38	47	1	95	0	95	7507.63	725
WY 2019	966	964	9	924	0	924		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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)
* Oct 2016	33	90	1	91	93	0	93	7146.55	106
H Nov 2016	28	33	2	36	32	0	35	7147.39	107
I Dec 2016	27	35	1	36	34	0	34	7150.44	109
S Jan 2017	30	34	2	36	33	0	33	7153.75	112
T Feb 2017	29	44	1	45	55	0	55	7140.48	102
O Mar 2017	74	70	5	74	64	0	68	7148.96	108
R Apr 2017	157	53	12	66	65	0	65	7149.64	109
I May 2017	263	293	19	312	203	0	312	7149.70	109
C Jun 2017	411	175	19	195	184	0	193	7151.34	110
A Jul 2017	139	110	4	114	37	0	111	7155.13	113
L Aug 2017	86	111	2	113	0	0	115	7152.68	111
* Sep 2017	35	114	0	115	92	0	112	7155.62	114
WY 2017	1314	1163	69	1232	893	0	1226		
Oct 2017	42	75	2	77	79	0	79	7153.73	112
Nov 2017	36	71	1	72	72	0	72	7153.73	112
Dec 2017	30	117	1	118	118	0	118	7153.73	112
Jan 2018	31	75	3	78	78	0	78	7153.73	112
Feb 2018	26	37	2	39	39	0	39	7153.73	112
Mar 2018	40	38	4	42	42	0	42	7153.73	112
Apr 2018	79	50	10	60	60	0	60	7153.73	112
May 2018	210	146	20	166	166	0	166	7153.73	112
Jun 2018	275	52	20	72	72	0	72	7153.73	112
Jul 2018	99	90	6	96	96	0	96	7153.73	112
Aug 2018	55	98	3	101	101	0	101	7153.73	112
Sep 2018	52	86	3	89	89	0	89	7153.73	112
WY 2018	975	934	75	1009	1010	0	1010		
Oct 2018	48	60	3	63	63	0	63	7153.73	112
Nov 2018	36	59	2	61	61	0	61	7153.73	112
Dec 2018	28	107	2	109	109	0	109	7153.73	112
Jan 2019	27	83	2	85	85	0	85	7153.73	112
Feb 2019	25	32	3	35	35	0	35	7153.73	112
Mar 2019	40	35	4	39	39	0	39	7153.73	112
Apr 2019	88	45	11	56	56	0	56	7153.73	112
May 2019	247	153	26	179	179	0	179	7153.73	112
Jun 2019	281	72	20	92	92	0	92	7153.73	112
Jul 2019	123	87	6	93	93	0	93	7153.73	112
Aug 2019	67	96	3	99	99	0	99	7153.73	112
Sep 2019	41	95	3	98	98	0	98	7153.73	112
WY 2019	1051	924	85	1009	1009	0	1009		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 24-Month Study

Most Probable Inflow*

Crystal Reservoir



	Unreg Inflow	Morrow Release	Side Inflow	Total Inflow	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	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)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Oct 2016	37	93	4	97	97	0	97	6747.92	15	57	39
H Nov 2016	31	35	3	38	37	0	37	6750.47	16	1	36
I Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
S Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
T Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
O Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	67
R Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
I May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
C Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
A Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
L Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
* 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
Oct 2017	45	79	3	82	80	0	80	6753.04	17	30	50
Nov 2017	38	72	2	74	74	0	74	6753.04	17	0	74
Dec 2017	32	118	2	120	120	0	120	6753.04	17	0	120
Jan 2018	37	78	6	84	84	0	84	6753.04	17	0	84
Feb 2018	30	39	4	43	43	0	43	6753.04	17	0	43
Mar 2018	46	42	6	48	48	0	48	6753.04	17	5	43
Apr 2018	90	60	11	71	71	0	71	6753.04	17	30	41
May 2018	240	166	30	196	134	61	196	6753.04	17	55	141
Jun 2018	310	72	35	107	107	0	107	6753.04	17	60	47
Jul 2018	111	96	12	108	108	0	108	6753.04	17	65	43
Aug 2018	62	101	7	108	108	0	108	6753.04	17	65	43
Sep 2018	59	89	7	96	96	0	96	6753.04	17	55	41
WY 2018	1100	1010	125	1135	1073	61	1134			365	769
Oct 2018	55	63	7	69	69	0	69	6753.04	17	30	39
Nov 2018	41	61	5	66	66	0	66	6753.04	17	0	66
Dec 2018	32	109	5	114	114	0	114	6753.04	17	0	114
Jan 2019	31	85	5	90	90	0	90	6753.04	17	0	90
Feb 2019	29	35	4	39	39	0	39	6753.04	17	0	39
Mar 2019	46	39	6	45	45	0	45	6753.04	17	5	40
Apr 2019	101	56	12	68	68	0	68	6753.04	17	30	38
May 2019	281	179	34	213	134	79	213	6753.04	17	55	158
Jun 2019	315	92	34	126	126	0	126	6753.04	17	60	66
Jul 2019	138	93	14	108	108	0	108	6753.04	17	65	43
Aug 2019	75	99	8	108	108	0	108	6753.04	17	65	43
Sep 2019	47	98	6	104	104	0	104	6753.04	17	55	49
WY 2019	1191	1009	140	1149	1070	79	1149			365	784

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



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Oct 2016	11	8	7644.63	74
H Nov 2016	6	2	7646.51	79
I Dec 2016	6	2	7647.98	82
S Jan 2017	7	5	7648.89	84
T Feb 2017	7	15	7645.42	76
O Mar 2017	24	24	7645.75	77
R Apr 2017	45	35	7649.82	87
I May 2017	67	44	7658.86	109
C Jun 2017	72	57	7664.54	124
A Jul 2017	30	39	7660.94	115
L Aug 2017	19	33	7655.15	100
* Sep 2017	9	34	7644.31	74
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WY 2017	303	297		
Oct 2017	10	20	7639.51	63
Nov 2017	8	2	7642.34	69
Dec 2017	6	2	7644.18	73
Jan 2018	5	2	7645.55	77
Feb 2018	4	2	7646.52	79
Mar 2018	6	2	7648.21	83
Apr 2018	15	2	7653.54	96
May 2018	57	31	7663.40	121
Jun 2018	70	67	7664.37	124
Jul 2018	27	42	7658.65	109
Aug 2018	17	38	7650.14	87
Sep 2018	15	30	7643.70	72
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WY 2018	240	238		
Oct 2018	14	17	7642.24	69
Nov 2018	8	2	7645.14	76
Dec 2018	6	2	7647.06	80
Jan 2019	5	2	7648.54	83
Feb 2019	5	2	7649.78	86
Mar 2019	9	2	7652.49	93
Apr 2019	23	2	7660.81	114
May 2019	71	61	7664.53	124
Jun 2019	70	70	7664.40	124
Jul 2019	29	42	7659.41	111
Aug 2019	20	38	7652.10	92
Sep 2019	17	29	7647.19	80
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WY 2019	279	267		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 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)
* Oct 2016	27	0	24	2	5	27	6056.19	1300	46
H Nov 2016	24	0	19	1	0	22	6055.87	1296	43
I Dec 2016	25	0	22	1	0	21	6055.92	1297	40
S Jan 2017	34	0	32	1	0	22	6056.65	1306	39
T Feb 2017	56	1	62	1	1	27	6059.31	1339	48
O Mar 2017	176	17	159	2	6	30	6068.54	1460	89
R Apr 2017	235	33	193	3	19	33	6078.18	1598	137
I May 2017	261	45	195	4	25	228	6073.94	1536	315
C Jun 2017	231	46	166	5	40	259	6063.90	1398	458
A Jul 2017	49	11	48	4	43	38	6061.00	1361	93
L Aug 2017	30	5	38	4	35	36	6058.07	1323	54
* Sep 2017	9	2	33	3	23	42	6055.28	1289	47
WY 2017	1157	160	990	28	198	785			1409
Oct 2017	25	2	33	2	8	25	6055.10	1287	46
Nov 2017	25	1	18	1	2	21	6054.62	1281	37
Dec 2017	20	0	16	1	2	22	6053.91	1272	36
Jan 2018	23	0	20	1	0	22	6053.72	1270	35
Feb 2018	26	0	24	1	0	19	6054.00	1273	30
Mar 2018	64	2	57	2	5	22	6056.37	1302	40
Apr 2018	128	15	100	2	21	21	6060.81	1358	58
May 2018	240	37	177	4	35	22	6069.55	1474	149
Jun 2018	205	32	170	5	51	21	6076.11	1567	165
Jul 2018	44	6	52	5	56	42	6072.57	1516	98
Aug 2018	33	1	53	4	47	66	6067.96	1452	99
Sep 2018	32	1	46	3	26	85	6062.87	1385	110
WY 2018	865	99	764	29	254	386			901
Oct 2018	39	2	40	2	10	31	6062.72	1383	55
Nov 2018	31	1	23	1	0	30	6062.15	1375	47
Dec 2018	25	0	20	1	0	31	6061.30	1364	46
Jan 2019	22	0	18	1	0	31	6060.29	1351	44
Feb 2019	30	0	27	1	0	28	6060.17	1350	40
Mar 2019	92	2	83	2	5	22	6064.40	1405	44
Apr 2019	170	14	134	3	21	21	6071.04	1495	73
May 2019	277	37	230	4	36	247	6066.92	1438	393
Jun 2019	224	32	191	4	52	272	6056.37	1302	423
Jul 2019	66	6	72	4	57	43	6053.79	1271	110
Aug 2019	45	1	62	3	48	36	6051.73	1246	74
Sep 2019	43	1	54	3	26	31	6051.20	1240	64
WY 2019	1064	96	957	27	254	821			1413

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 24-Month Study

Most Probable Inflow*

Lake Powell



	Unreg Inflow	Regulated Inflow	Evap Losses	PowerPlant Release	Bypass Release	Total Release	Reservoir Elev End of Month	Bank Storage	EOM Storage	Lees 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)
* Oct 2016	381	477	35	601	0	601	3609.48	5068	12678	610
H Nov 2016	383	389	33	624	126	750	3605.81	5039	12313	754
I Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
S Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
T Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
O Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
R Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
I May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
C Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
A Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
L Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	931
* Sep 2017	196	410	57	663	0	663	3628.31	5227	14664	681
WY 2017	11905	11396	409	8874	126	9000				9163
Oct 2017	510	553	39	667	0	667	3627.03	5215	14522	673
Nov 2017	490	582	37	630	0	630	3626.31	5209	14443	634
Dec 2017	380	587	30	740	0	740	3624.76	5196	14274	746
Jan 2018	360	514	9	860	0	860	3621.71	5169	13946	866
Feb 2018	390	488	10	750	0	750	3619.34	5149	13694	752
Mar 2018	590	591	16	780	0	780	3617.53	5134	13504	785
Apr 2018	860	774	26	683	0	683	3618.11	5139	13564	691
May 2018	1950	1704	32	700	0	700	3626.50	5211	14464	706
Jun 2018	2600	2157	52	760	0	760	3637.50	5310	15710	766
Jul 2018	840	747	65	860	0	860	3636.08	5297	15545	875
Aug 2018	400	527	63	900	0	900	3632.56	5265	15142	914
Sep 2018	350	501	58	670	0	670	3630.70	5248	14932	679
WY 2018	9720	9725	436	9000	0	9000				9086
Oct 2018	464	517	40	640	0	640	3629.36	5236	14781	646
Nov 2018	450	518	38	640	0	640	3628.03	5224	14634	644
Dec 2018	363	515	30	720	0	720	3626.06	5207	14416	726
Jan 2019	361	488	9	860	0	860	3622.81	5179	14063	866
Feb 2019	393	446	10	750	0	750	3620.09	5155	13772	752
Mar 2019	665	598	16	800	0	800	3618.17	5139	13570	805
Apr 2019	1056	872	26	710	0	710	3619.37	5149	13696	718
May 2019	2343	2232	32	710	0	710	3631.98	5260	15075	716
Jun 2019	2666	2365	55	750	0	750	3644.33	5375	16520	756
Jul 2019	1091	989	68	850	0	850	3644.87	5381	16586	865
Aug 2019	500	582	67	900	0	900	3641.90	5352	16229	914
Sep 2019	408	521	61	670	0	670	3640.26	5336	16034	679
WY 2019	10760	10643	452	9000	0	9000				9086

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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)
* Oct 2016	601	78	42	518	8.4	23	517	631	1076.34	9710
H Nov 2016	750	77	42	751	12.6	16	750	632	1076.55	9727
I Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
S Jan 2017	880	128	30	500	8.1	7	494	684	1086.08	10521
T Feb 2017	711	150	28	488	8.8	7	487	704	1089.78	10838
O Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
R Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
I May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
C Jun 2017	749	17	53	864	14.5	29	864	648	1079.52	9971
A Jul 2017	850	89	66	885	14.4	31	885	646	1079.03	9931
L Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
* Sep 2017	663	70	58	600	10.1	21	596	662	1082.05	10182
WY 2017	9000	994	541	8620		234	8596			
Oct 2017	667	71	43	616	10.0	27	616	665	1082.64	10231
Nov 2017	630	65	43	718	12.1	18	718	660	1081.69	10152
Dec 2017	740	51	37	507	8.2	15	507	674	1084.28	10369
Jan 2018	860	64	30	618	10.1	12	618	690	1087.18	10615
Feb 2018	750	72	28	683	12.3	14	683	696	1088.24	10706
Mar 2018	780	46	31	1049	17.1	21	1049	679	1085.19	10446
Apr 2018	683	39	39	1059	17.8	23	1059	655	1080.73	10071
May 2018	700	26	44	964	15.7	27	964	636	1077.22	9782
Jun 2018	760	10	52	878	14.8	33	878	624	1075.00	9601
Jul 2018	860	77	65	834	13.6	36	834	624	1075.02	9603
Aug 2018	900	127	69	735	11.9	34	735	636	1077.19	9780
Sep 2018	670	110	57	745	12.5	27	745	633	1076.63	9734
WY 2018	9000	757	538	9407		288	9407			
Oct 2018	640	71	42	497	8.1	28	497	641	1078.28	9869
Nov 2018	640	65	42	659	11.1	21	659	640	1078.09	9853
Dec 2018	720	51	36	581	9.5	14	581	649	1079.68	9984
Jan 2019	860	64	30	719	11.7	10	719	659	1081.54	10139
Feb 2019	750	72	28	612	11.0	12	612	669	1083.45	10299
Mar 2019	800	46	31	1044	17.0	20	1044	654	1080.65	10065
Apr 2019	710	39	38	1099	18.5	27	1099	629	1075.92	9676
May 2019	710	26	43	975	15.9	32	975	610	1072.28	9381
Jun 2019	750	10	51	875	14.7	33	875	598	1069.94	9194
Jul 2019	850	77	64	836	13.6	36	836	597	1069.84	9187
Aug 2019	900	127	68	780	12.7	34	780	606	1071.55	9323
Sep 2019	670	110	56	703	11.8	31	703	605	1071.44	9315
WY 2019	9000	757	527	9380		296	9380			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave



	Hoover Release	Side Inflow	Evap Losses	Power Release	Spill Release	Total Release	Total Release	Reservoir Elev	EOM Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	End of Month (Ft)	(1000 Ac-Ft)
* Oct 2016	518	-7	15	640	0	640	10.4	634.86	1482
H Nov 2016	751	-29	11	574	0	574	9.6	640.09	1620
I Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
S Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
T Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
O Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
R Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
I May 2017	917	-13	22	846	0	846	13.8	643.74	1719
C Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
A Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
L Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
* Sep 2017	600	-11	18	656	0	656	11.0	639.47	1603
WY 2017	8620	-183	199	8261	0	8261			
Oct 2017	616	-4	15	662	0	662	10.8	637.00	1538
Nov 2017	718	-11	11	617	0	617	10.4	640.01	1617
Dec 2017	507	-10	9	523	0	523	8.5	638.71	1583
Jan 2018	618	-19	10	507	0	507	8.2	641.80	1666
Feb 2018	683	-16	10	613	45	657	11.8	641.80	1666
Mar 2018	1049	-16	13	986	0	986	16.0	643.05	1700
Apr 2018	1059	-20	17	1024	0	1024	17.2	643.00	1699
May 2018	964	-13	22	929	0	929	15.1	643.00	1699
Jun 2018	878	-18	25	862	0	862	14.5	642.00	1671
Jul 2018	834	-16	25	806	0	806	13.1	641.50	1658
Aug 2018	735	-12	23	700	0	700	11.4	641.50	1658
Sep 2018	745	-11	18	756	0	756	12.7	640.01	1617
WY 2018	9407	-166	197	8984	45	9028			
Oct 2018	497	-4	15	661	0	661	10.8	633.00	1434
Nov 2018	659	-11	10	586	0	586	9.8	635.00	1486
Dec 2018	581	-10	9	465	0	465	7.6	638.71	1583
Jan 2019	719	-19	10	607	0	607	9.9	641.80	1666
Feb 2019	612	-16	10	587	0	587	10.6	641.80	1666
Mar 2019	1044	-16	13	980	0	980	15.9	643.05	1700
Apr 2019	1099	-20	17	1064	0	1064	17.9	643.00	1699
May 2019	975	-13	22	940	0	940	15.3	643.00	1699
Jun 2019	875	-18	25	859	0	859	14.4	642.00	1671
Jul 2019	836	-16	25	809	0	809	13.2	641.50	1658
Aug 2019	780	-12	23	745	0	745	12.1	641.50	1658
Sep 2019	703	-11	18	713	0	713	12.0	640.01	1617
WY 2019	9380	-166	197	9016	0	9016			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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)
* Oct 2016	640	36	12	466	7.6	80	133	446.90	559	61	1.0
H Nov 2016	574	21	9	374	6.3	78	140	446.33	549	97	1.6
I Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
S Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
T Feb 2017	486	14	8	393	7.1	13	62	448.30	586	160	2.9
O Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
R Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
I May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
C Jun 2017	853	0	15	689	11.6	58	79	448.41	588	126	2.1
A Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
L Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
* Sep 2017	656	17	15	481	8.1	56	134	447.17	564	104	1.7
WY 2017	8261	223	140	6204		665	1406			1513	
Oct 2017	662	28	12	471	7.7	70	132	447.00	561	69	1.1
Nov 2017	617	19	9	414	7.0	73	125	447.50	571	102	1.7
Dec 2017	523	19	7	337	5.5	88	124	446.50	552	109	1.8
Jan 2018	507	17	6	325	5.3	69	119	446.50	552	138	2.2
Feb 2018	657	10	8	497	8.9	37	119	446.50	552	160	2.9
Mar 2018	986	7	9	725	11.8	58	187	446.70	555	198	3.2
Apr 2018	1024	19	11	722	12.1	80	182	448.70	593	175	2.9
May 2018	929	15	13	649	10.6	82	187	448.70	593	104	1.7
Jun 2018	862	15	16	690	11.6	80	78	448.70	593	105	1.8
Jul 2018	806	26	17	656	10.7	82	78	448.00	580	111	1.8
Aug 2018	700	25	17	595	9.7	82	29	447.50	571	100	1.6
Sep 2018	756	20	15	521	8.8	80	151	447.50	570	89	1.5
WY 2018	9028	220	139	6601		883	1512			1461	
Oct 2018	661	28	12	496	8.1	34	139	447.50	571	74	1.2
Nov 2018	586	19	9	417	7.0	34	139	447.50	571	116	1.9
Dec 2018	465	19	7	318	5.2	35	139	446.50	552	131	2.1
Jan 2019	607	17	6	361	5.9	95	157	446.50	552	138	2.2
Feb 2019	587	10	8	484	8.7	26	73	446.50	552	160	2.9
Mar 2019	980	7	9	719	11.7	95	152	446.70	555	198	3.2
Apr 2019	1064	19	11	747	12.6	93	183	448.70	593	175	2.9
May 2019	940	15	13	647	10.5	95	188	448.70	593	104	1.7
Jun 2019	859	15	16	680	11.4	93	73	448.70	593	105	1.8
Jul 2019	809	26	17	650	10.6	95	73	448.00	580	111	1.8
Aug 2019	745	25	17	584	9.5	95	73	447.50	571	100	1.6
Sep 2019	713	20	15	518	8.7	35	157	447.50	570	89	1.5
WY 2019	9016	220	139	6622		824	1548			1500	

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



	Power Release Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2016	518	8.4	1076.34	9710	90	438.10	1335.0	195.2	87	377.1
H	Nov 2016	751	12.6	1076.55	9727	17	427.42	1072.0	290.6	80	386.7
I	Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
S	Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
T	Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
O	Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
R	Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
I	May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
C	Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
A	Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
L	Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
*	Sep 2017	600	10.1	1082.05	10182	51	440.10	976.1	230.7	66	384.8
WY 2017		8620							3347.1		
	Oct 2017	616	10.0	1082.64	10231	50	435.60	976.1	242.6	66	394.1
	Nov 2017	718	12.1	1081.69	10152	-80	435.00	1085.0	284.8	68	396.5
	Dec 2017	507	8.2	1084.28	10369	217	437.04	826.9	202.9	52	400.0
	Jan 2018	618	10.1	1087.18	10615	246	438.57	924.9	246.7	58	399.0
	Feb 2018	683	12.3	1088.24	10706	91	437.63	1216.0	271.9	75	398.1
	Mar 2018	1049	17.1	1085.19	10446	-260	436.24	1203.1	419.3	75	399.5
	Apr 2018	1059	17.8	1080.73	10071	-375	431.54	1266.0	419.1	80	395.7
	May 2018	964	15.7	1077.22	9782	-289	426.07	1473.1	373.1	95	387.1
	Jun 2018	878	14.8	1075.00	9601	-181	422.99	1544.0	334.2	100	380.7
	Jul 2018	834	13.6	1075.02	9603	2	422.39	1544.0	321.1	100	385.0
	Aug 2018	735	11.9	1077.19	9780	177	423.64	1555.0	280.0	100	381.1
	Sep 2018	745	12.5	1076.63	9734	-46	424.92	1554.0	286.3	100	384.2
WY 2018		9407							3682.2		
	Oct 2018	497	8.1	1078.28	9869	135	429.66	1259.0	193.3	81	389.1
	Nov 2018	659	11.1	1078.09	9853	-16	432.67	1260.0	255.5	81	387.8
	Dec 2018	581	9.5	1079.68	9984	131	432.21	1164.0	224.9	74	387.1
	Jan 2019	719	11.7	1081.54	10139	155	433.54	901.1	285.5	57	397.3
	Feb 2019	612	11.0	1083.45	10299	160	434.97	824.0	243.5	52	397.8
	Mar 2019	1044	17.0	1080.65	10065	-234	430.20	1392.7	406.7	88	389.6
	Apr 2019	1099	18.5	1075.92	9676	-389	426.18	1353.5	429.3	87	390.6
	May 2019	975	15.9	1072.28	9381	-294	420.67	1534.2	372.3	100	381.8
	Jun 2019	875	14.7	1069.94	9194	-187	418.04	1521.2	329.0	100	376.0
	Jul 2019	836	13.6	1069.84	9187	-8	417.32	1520.7	318.2	100	380.4
	Aug 2019	780	12.7	1071.55	9323	137	418.28	1530.4	295.4	100	378.7
	Sep 2019	703	11.8	1071.44	9315	-9	419.56	1529.9	264.9	100	377.0
WY 2019		9380							3618.5		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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
* Oct 2016	640	10.4	634.86	1482	-144	135.70	201.5	79.3	79	123.8
H Nov 2016	574	9.6	640.09	1620	138	140.91	170.9	71.1	67	123.8
I Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
S Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
T Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
O Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
R Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
I May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
C Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
A Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
L Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
* Sep 2017	656	11.0	639.47	1603	-86	138.07	253.3	83.2	99	126.8
WY 2017	8261							1061.4		
Oct 2017	662	10.8	637.00	1538	-65	133.30	179.3	81.0	70	122.4
Nov 2017	617	10.4	640.01	1617	80	134.57	151.3	75.8	59	122.8
Dec 2017	523	8.5	638.71	1583	-34	136.19	131.6	64.9	52	124.3
Jan 2018	507	8.2	641.80	1666	83	135.41	179.3	63.4	70	125.2
Feb 2018	613	11.0	641.80	1666	0	139.21	111.1	76.9	44	125.5
Mar 2018	986	16.0	643.05	1700	34	138.04	166.2	122.7	65	124.4
Apr 2018	1024	17.2	643.00	1699	-1	137.36	207.4	127.6	81	124.6
May 2018	929	15.1	643.00	1699	0	137.43	204.0	116.4	80	125.2
Jun 2018	862	14.5	642.00	1671	-27	135.51	255.0	107.8	100	125.0
Jul 2018	806	13.1	641.50	1658	-14	134.73	255.0	100.6	100	124.8
Aug 2018	700	11.4	641.50	1658	0	134.46	255.0	87.6	100	125.1
Sep 2018	756	12.7	640.01	1617	-40	133.68	255.0	93.8	100	124.0
WY 2018	8984							1118.4		
Oct 2018	661	10.8	633.00	1434	-183	130.74	202.3	79.9	79	120.9
Nov 2018	586	9.8	635.00	1486	51	129.19	170.0	69.7	67	118.9
Dec 2018	465	7.6	638.71	1583	97	132.25	167.8	56.9	66	122.4
Jan 2019	607	9.9	641.80	1666	83	135.41	179.3	75.6	70	124.6
Feb 2019	587	10.6	641.80	1666	0	139.42	111.1	73.7	44	125.7
Mar 2019	980	15.9	643.05	1700	34	138.04	166.2	122.0	65	124.5
Apr 2019	1064	17.9	643.00	1699	-1	137.36	207.4	132.4	81	124.4
May 2019	940	15.3	643.00	1699	0	137.43	204.0	117.7	80	125.2
Jun 2019	859	14.4	642.00	1671	-27	135.51	255.0	107.4	100	125.0
Jul 2019	809	13.2	641.50	1658	-14	134.73	255.0	100.9	100	124.7
Aug 2019	745	12.1	641.50	1658	0	134.46	255.0	93.0	100	124.9
Sep 2019	713	12.0	640.01	1617	-40	133.68	255.0	88.6	100	124.2
WY 2019	9016							1117.8		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2017 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
* Oct 2016	466	7.6	446.90	559	-20	78.88	93.6	32.8	78	70.5
H Nov 2016	374	6.3	446.33	549	-11	80.55	90.0	26.0	75	69.6
I Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
S Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
T Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
O Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
R Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
I May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
C Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
A Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
L Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
* Sep 2017	481	8.1	447.17	564	-21	81.08	120.0	33.8	100	70.2
WY 2017	6204							434.1		
Oct 2017	471	7.7	447.00	561	-3	75.74	92.9	30.9	77	65.5
Nov 2017	414	7.0	447.50	571	9	76.05	90.0	27.1	75	65.5
Dec 2017	337	5.5	446.50	552	-19	75.66	92.9	21.6	77	64.3
Jan 2018	325	5.3	446.50	552	0	74.04	117.1	20.4	98	62.9
Feb 2018	497	8.9	446.50	552	0	75.21	92.1	32.6	77	65.6
Mar 2018	725	11.8	446.70	555	4	74.69	104.5	47.6	87	65.6
Apr 2018	722	12.1	448.70	593	38	75.08	120.0	47.6	100	65.9
May 2018	649	10.6	448.70	593	0	76.05	120.0	43.1	100	66.3
Jun 2018	690	11.6	448.70	593	0	76.05	120.0	45.9	100	66.5
Jul 2018	656	10.7	448.00	580	-13	75.71	120.0	43.3	100	66.1
Aug 2018	595	9.7	447.50	571	-9	75.13	120.0	38.9	100	65.4
Sep 2018	521	8.8	447.50	570	0	74.89	120.0	33.9	100	65.0
WY 2018	6601							432.9		
Oct 2018	496	8.1	447.50	571	0	76.19	91.9	32.8	77	66.0
Nov 2018	417	7.0	447.50	571	0	75.83	99.0	27.2	83	65.2
Dec 2018	318	5.2	446.50	552	-19	74.40	120.0	20.0	100	63.1
Jan 2019	361	5.9	446.50	552	0	75.02	95.8	23.2	80	64.1
Feb 2019	484	8.7	446.50	552	0	75.21	92.1	31.7	77	65.5
Mar 2019	719	11.7	446.70	555	4	74.34	112.3	47.0	94	65.3
Apr 2019	747	12.6	448.70	593	38	75.08	120.0	49.2	100	65.9
May 2019	647	10.5	448.70	593	0	76.05	120.0	42.9	100	66.3
Jun 2019	680	11.4	448.70	593	0	76.05	120.0	45.2	100	66.5
Jul 2019	650	10.6	448.00	580	-13	75.71	120.0	42.9	100	66.1
Aug 2019	584	9.5	447.50	571	-9	75.13	120.0	38.2	100	65.4
Sep 2019	518	8.7	447.50	570	0	74.89	120.0	33.7	100	65.0
WY 2019	6622							434.0		

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 24-Month Study

Most Probable Inflow*

Upper Basin Power



	Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
* Oct 2016	269	33	26	33	19	0
H Nov 2016	277	30	9	11	6	0
I Dec 2016	395	41	10	11	6	0
S Jan 2017	385	43	10	11	5	0
T Feb 2017	307	43	13	19	10	0
O Mar 2017	312	97	19	22	0	0
Winter 2017	1945	289	87	107	46	0
R Apr 2017	270	102	15	22	6	0
I May 2017	291	105	43	72	17	4
C Jun 2017	346	102	40	66	8	6
A Jul 2017	399	71	35	13	18	8
L Aug 2017	421	56	34	0	22	9
* Sep 2017	306	56	35	33	22	6
Summer 2017	2033	492	202	207	93	33
Oct 2017	279	39	23	28	14	7
Nov 2017	264	52	22	26	13	7
Dec 2017	309	63	35	42	21	7
Jan 2018	357	63	22	28	15	6
Feb 2018	310	57	11	14	7	6
Mar 2018	321	56	11	15	8	7
Winter 2018	1839	331	123	154	77	39
Apr 2018	281	54	15	22	12	6
May 2018	290	78	42	60	23	6
Jun 2018	321	99	16	26	18	8
Jul 2018	366	37	28	34	19	10
Aug 2018	381	37	30	36	19	9
Sep 2018	282	35	26	32	17	7
Summer 2018	1921	340	157	210	108	46
Oct 2018	269	37	18	23	12	7
Nov 2018	268	35	18	22	11	6
Dec 2018	301	36	32	39	20	6
Jan 2019	358	36	24	31	16	6
Feb 2019	310	33	9	13	7	5
Mar 2019	330	36	10	14	8	5
Winter 2019	1835	214	111	141	73	34
Apr 2019	292	35	13	20	12	5
May 2019	296	58	45	65	23	7
Jun 2019	320	53	22	33	22	8
Jul 2019	367	36	27	34	19	10
Aug 2019	388	36	30	36	19	9
Sep 2019	287	35	30	35	18	7
Summer 2019	1663	219	137	187	94	39

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2017 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	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	
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Oct 2017	339	97	407	9658	10501	17195	27696	339	97	407	843	9658	17195	27696	3040	616	0	32.8
Nov 2017	343	132	409	9800	10684	17146	27830	343	132	409	885	9800	17146	27830	3810	718	0	32.6
Dec 2017	403	168	415	9879	10864	17225	28090	403	168	415	986	9879	17225	28090	4580	507	0	32.4
Jan 2018	517	255	424	10048	11243	17008	28251	517	255	424	1196	10048	17008	28251	5350	618	0	32.2
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2018	517	255	424	10048	11243	17008	28251	107	207	424	738	10048	17008	27794	5350	618	0	32.3
Feb 2018	625	301	426	10376	11729	16762	28491	215	255	426	896	10376	16762	28034	1500	683	0	32.0
Mar 2018	717	312	423	10628	12080	16671	28751	307	267	423	997	10628	16671	28296	1500	1049	0	31.6
Apr 2018	754	312	394	10818	12279	16931	29209	340	269	393	1002	10818	16931	28752	1500	1059	0	31.4
May 2018	764	295	338	10758	12155	17306	29460	344	251	314	909	10758	17306	28973	1500	964	0	32.2
Jun 2018	718	261	222	9858	11059	17595	28654	289	206	159	654	9858	17595	28107	1500	878	0	33.6
Jul 2018	590	80	129	8612	9411	17776	27187	150	3	10	163	8612	17776	26552	1500	834	0	33.5
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2018	460	73	180	8777	9489	17774	27263	460	73	180	712	8777	17774	27263	1500	735	0	33.2
Sep 2018	476	107	244	9180	10007	17597	27604	476	107	244	827	9180	17597	27604	2270	745	0	32.7
Oct 2018	522	136	311	9390	10360	17643	28003	522	136	311	970	9390	17643	28003	3040	497	0	32.4
Nov 2018	566	150	313	9541	10569	17508	28077	566	150	313	1029	9541	17508	28077	3810	659	0	32.3
Dec 2018	613	173	321	9688	10795	17524	28319	613	173	321	1107	9688	17524	28319	4580	581	0	32.1
Jan 2019	679	253	332	9906	11170	17393	28563	679	253	332	1264	9906	17393	28563	5350	719	0	31.8
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2019	679	253	332	9906	11170	17393	28563	375	252	95	722	9906	17393	28021	5350	719	0	31.8
Feb 2019	740	310	345	10259	11655	17238	28893	435	310	107	852	10259	17238	28349	1500	612	0	31.7
Mar 2019	788	318	346	10550	12002	17078	29081	480	318	108	906	10550	17078	28534	1500	1044	0	31.3
Apr 2019	790	316	291	10752	12149	17312	29461	478	316	46	839	10752	17312	28903	1500	1099	0	31.2
May 2019	759	287	201	10626	11873	17701	29574	441	287	-68	660	10626	17701	28987	1500	975	0	32.4
Jun 2019	684	228	258	9247	10417	17996	28413	356	219	-51	524	9247	17996	27766	1500	875	0	33.9
Jul 2019	457	61	394	7802	8713	18183	26895	112	30	29	171	7802	18183	26155	1500	836	0	34.0
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****										
Aug 2019	363	30	425	7736	8555	18190	26745	363	30	425	819	7736	18190	26745	1500	780	0	33.7
Sep 2019	388	54	450	8093	8986	18054	27040	388	54	450	892	8093	18054	27040	2270	703	0	33.4

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