

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
Boulder Canyon Operations Office
River Operations Group
Daniel Bunk
P.O. Box 61470
Boulder City, NV 89006-1470
Phone: 702-293-8013



The operation of Lake Powell and Lake Mead in this August 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). Pursuant to the Interim Guidelines, the August 2016 24-Month Study projections of the January 1, 2017, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2017.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2017 is the Upper Elevation Balancing Tier. With an 8.23 million acre-feet (maf) release from Lake Powell in water year 2017, the April 2017 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 2017. 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 2017.

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 2017.

The August 2017 24-Month Study projects the January 1, 2018 Lake Powell elevation to be below the 2018 Equalization Elevation of 3,654 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell's operations in 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. Consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is currently projected to occur and Lake Powell is projected to release 9.0 maf in water year 2018.

The August 2017 24-Month Study projects the January 1, 2018 Lake Mead elevation to be above 1,075 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 2018.

The operational tier determinations will be documented in the 2018 AOP, which is currently in 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>.

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 1.073 maf or 98 percent of the 30-year average from 1981 to 2010. The forecast for August unregulated inflow into Lake Powell is 0.550 maf or 110 percent of the 30-year average. The preliminary 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 0.753 maf. The calendar year 2017 diversion for the Central Arizona Project (CAP) is projected to be 1.379 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.247 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

August 2017 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 2016	29	2	65	0	65	6495.03	262
H Sep 2016	26	2	36	21	58	6490.22	229
WY 2016	943	15	739	213	952		
I Oct 2016	57	1	0	57	57	6490.08	228
S Nov 2016	62	1	0	59	59	6490.44	230
T Dec 2016	37	1	0	63	63	6486.33	203
O Jan 2017	45	1	0	63	63	6483.20	184
R Feb 2017	51	1	0	57	57	6482.06	178
I Mar 2017	180	1	0	150	150	6486.90	207
C Apr 2017	225	1	0	304	304	6472.17	128
A May 2017	430	1	54	373	427	6472.55	129
L Jun 2017	732	2	74	469	543	6502.49	317
* Jul 2017	332	3	88	230	319	6503.83	328
Aug 2017	125	2	102	63	165	6498.24	286
Sep 2017	80	2	71	0	71	6499.16	293
WY 2017	2356	15	389	1888	2278		
Oct 2017	70	1	74	0	74	6498.49	288
Nov 2017	63	1	71	0	71	6497.24	279
Dec 2017	50	1	74	0	74	6493.81	254
Jan 2018	46	1	74	0	74	6489.53	226
Feb 2018	40	1	67	0	67	6485.37	198
Mar 2018	60	1	101	4	105	6477.27	153
Apr 2018	88	1	94	32	126	6468.78	114
May 2018	165	1	97	35	132	6475.83	146
Jun 2018	300	2	101	44	145	6499.95	298
Jul 2018	190	3	101	41	142	6505.77	344
Aug 2018	72	2	74	0	74	6505.25	340
Sep 2018	46	2	71	0	71	6501.77	312
WY 2018	1190	15	999	156	1155		
Oct 2018	49	1	68	0	68	6499.09	292
Nov 2018	42	1	65	0	65	6495.79	268
Dec 2018	32	1	68	0	68	6490.57	232
Jan 2019	30	1	68	0	68	6484.65	194
Feb 2019	28	1	61	0	61	6478.66	160
Mar 2019	53	0	85	0	85	6471.78	127
Apr 2019	85	1	93	4	97	6468.94	115
May 2019	164	1	96	54	150	6471.90	127
Jun 2019	299	2	99	56	155	6496.01	270
Jul 2019	178	3	101	0	101	6505.76	344

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 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)
* Aug 2016	28	64	13	110	0	110	131	6027.55	3255	133
H Sep 2016	36	67	11	107	0	107	129	6026.27	3207	128
WY 2016	1427	1437	80	1406	203	1609				3435
I Oct 2016	70	70	7	85	0	85	128	6025.69	3186	119
S Nov 2016	73	70	4	77	0	77	128	6025.41	3175	112
T Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
O Jan 2017	49	67	2	110	0	110	124	6023.01	3087	155
R Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
I Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
C Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
A May 2017	582	580	8	278	171	449	129	6026.15	3203	857
L Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
* Jul 2017	387	374	14	180	48	228	142	6034.61	3531	314
Aug 2017	145	185	13	142	0	142	143	6035.32	3559	162
Sep 2017	92	83	12	143	0	143	140	6033.62	3491	155
WY 2017	3184	3105	81	2017	712	2729				4213
Oct 2017	85	89	8	148	0	148	138	6032.00	3427	172
Nov 2017	84	92	4	143	0	143	136	6030.67	3375	174
Dec 2017	55	79	2	169	0	169	132	6028.38	3287	194
Jan 2018	64	92	2	172	0	172	129	6026.29	3208	194
Feb 2018	64	91	2	156	0	156	127	6024.55	3144	178
Mar 2018	120	165	3	135	0	135	128	6025.24	3169	202
Apr 2018	150	188	5	131	0	131	130	6026.59	3220	321
May 2018	235	202	8	187	0	187	130	6026.78	3227	682
Jun 2018	360	205	10	164	0	164	131	6027.58	3256	614
Jul 2018	213	165	13	98	0	98	133	6028.92	3308	176
Aug 2018	85	87	13	98	0	98	132	6028.31	3284	119
Sep 2018	55	80	11	95	0	95	131	6027.65	3259	110
WY 2018	1570	1535	80	1696	0	1696				3136
Oct 2018	59	78	7	98	0	98	130	6026.95	3233	126
Nov 2018	51	74	3	95	0	95	129	6026.33	3210	125
Dec 2018	35	71	2	98	0	98	128	6025.56	3181	124
Jan 2019	40	78	2	98	0	98	127	6024.98	3160	123
Feb 2019	45	78	2	89	0	89	127	6024.64	3147	117
Mar 2019	102	135	3	98	0	98	128	6025.51	3179	175
Apr 2019	134	145	5	95	0	95	130	6026.67	3222	310
May 2019	245	231	8	153	0	153	132	6028.48	3291	685
Jun 2019	390	245	11	146	0	146	136	6030.71	3376	566
Jul 2019	210	133	14	98	0	98	137	6031.23	3397	198

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2017 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 2016	9	16	9315.75	79
H	Sep 2016	6	14	9310.77	71
WY 2016		125	125		
I	Oct 2016	5	6	9310.23	70
S	Nov 2016	4	5	9309.76	70
T	Dec 2016	5	5	9309.56	69
O	Jan 2017	6	5	9309.76	70
R	Feb 2017	4	5	9309.43	69
I	Mar 2017	6	6	9309.23	69
C	Apr 2017	13	9	9312.04	73
A	May 2017	30	19	9318.55	84
L	Jun 2017	62	45	9327.76	102
*	Jul 2017	24	26	9326.95	100
	Aug 2017	12	23	9321.18	89
	Sep 2017	8	18	9315.72	79
WY 2017		179	171		
	Oct 2017	8	8	9315.79	79
	Nov 2017	6	6	9315.79	79
	Dec 2017	5	6	9315.21	78
	Jan 2018	5	6	9314.62	77
	Feb 2018	4	6	9313.43	75
	Mar 2018	4	6	9312.22	73
	Apr 2018	7	8	9311.61	72
	May 2018	26	17	9316.94	81
	Jun 2018	42	22	9327.64	101
	Jul 2018	15	22	9324.04	94
	Aug 2018	9	20	9318.07	83
	Sep 2018	7	16	9312.83	74
WY 2018		138	143		
	Oct 2018	6	8	9311.88	73
	Nov 2018	5	6	9311.28	72
	Dec 2018	5	6	9310.46	71
	Jan 2019	4	6	9309.42	69
	Feb 2019	4	6	9308.01	67
	Mar 2019	4	6	9306.99	65
	Apr 2019	9	6	9308.78	68
	May 2019	28	20	9313.89	76
	Jun 2019	42	22	9324.82	96
	Jul 2019	20	22	9323.85	94

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2017 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 2016	57	65	1	110	0	110	7506.94	720
H Sep 2016	38	46	1	100	0	100	7500.48	665
WY 2016	881	882	9	913	19	934		
I Oct 2016	32	33	1	90	0	90	7493.44	608
S Nov 2016	26	27	0	33	0	33	7492.53	601
T Dec 2016	26	26	0	35	0	35	7491.43	593
O Jan 2017	29	28	0	34	0	34	7490.68	587
R Feb 2017	28	29	0	44	1	44	7488.71	571
I Mar 2017	70	70	0	69	0	70	7488.71	571
C Apr 2017	145	140	1	53	0	53	7499.55	658
A May 2017	244	233	1	151	65	293	7491.98	597
L Jun 2017	392	373	1	139	35	175	7515.35	793
* Jul 2017	135	137	2	113	0	110	7518.20	819
Aug 2017	72	83	1	111	0	111	7515.02	790
Sep 2017	50	60	1	107	0	107	7509.53	742
WY 2017	1248	1240	9	978	101	1155		
Oct 2017	45	45	1	80	0	80	7505.35	706
Nov 2017	37	37	0	75	0	75	7500.79	668
Dec 2017	33	34	0	113	0	113	7490.95	589
Jan 2018	29	30	0	65	0	65	7486.37	553
Feb 2018	24	26	0	44	0	44	7483.94	535
Mar 2018	36	38	0	47	0	47	7482.65	525
Apr 2018	71	72	1	50	0	50	7485.44	546
May 2018	210	201	1	146	0	146	7492.46	601
Jun 2018	275	255	1	59	0	59	7515.55	795
Jul 2018	101	108	2	96	0	96	7516.74	806
Aug 2018	53	64	1	102	0	102	7512.39	767
Sep 2018	41	50	1	99	0	99	7506.60	717
WY 2018	955	960	9	976	0	976		
Oct 2018	40	42	1	69	0	69	7503.35	689
Nov 2018	32	33	0	64	0	64	7499.60	658
Dec 2018	26	27	0	104	0	104	7489.95	581
Jan 2019	24	26	0	68	0	68	7484.42	539
Feb 2019	22	25	0	49	0	49	7481.09	514
Mar 2019	36	38	0	53	0	53	7478.92	498
Apr 2019	77	74	1	54	0	54	7481.63	518
May 2019	221	213	1	144	0	144	7490.60	586
Jun 2019	261	241	1	54	0	54	7512.98	772
Jul 2019	117	119	2	87	0	87	7516.37	802

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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)
*	Aug 2016	58	110	1	111	111	0	111	7153.88	112
H	Sep 2016	39	100	1	100	103	0	103	7150.03	109
WY 2016		931	934	49	983	972	5	978		
I	Oct 2016	33	90	1	91	93	0	93	7146.55	106
S	Nov 2016	28	33	2	36	32	0	35	7147.39	107
T	Dec 2016	27	35	1	36	34	0	34	7150.44	109
O	Jan 2017	30	34	2	36	33	0	33	7153.75	112
R	Feb 2017	29	44	1	45	55	0	55	7140.48	102
I	Mar 2017	74	70	5	74	64	0	68	7148.96	108
C	Apr 2017	157	53	12	66	65	0	65	7149.64	109
A	May 2017	263	293	19	312	203	0	312	7149.70	109
L	Jun 2017	411	175	19	195	184	0	193	7151.34	110
*	Jul 2017	139	110	4	114	37	0	111	7155.13	113
	Aug 2017	77	111	5	116	117	0	117	7153.73	112
	Sep 2017	53	107	3	110	110	0	110	7153.73	112
WY 2017		1323	1155	74	1229	1028	0	1225		
	Oct 2017	48	80	3	83	83	0	83	7153.73	112
	Nov 2017	40	75	3	78	78	0	78	7153.73	112
	Dec 2017	35	113	2	115	115	0	115	7153.73	112
	Jan 2018	31	65	2	67	67	0	67	7153.73	112
	Feb 2018	26	44	2	46	46	0	46	7153.73	112
	Mar 2018	40	47	4	51	51	0	51	7153.73	112
	Apr 2018	81	50	10	60	60	0	60	7153.73	112
	May 2018	230	146	20	166	166	0	166	7153.73	112
	Jun 2018	290	59	15	74	74	0	74	7153.73	112
	Jul 2018	105	96	4	100	100	0	100	7153.73	112
	Aug 2018	56	102	3	105	105	0	105	7153.73	112
	Sep 2018	43	99	2	101	101	0	101	7153.73	112
WY 2018		1025	976	70	1046	1046	0	1046		
	Oct 2018	42	69	2	71	71	0	71	7153.73	112
	Nov 2018	34	64	2	66	66	0	66	7153.73	112
	Dec 2018	28	104	2	106	106	0	106	7153.73	112
	Jan 2019	27	68	2	70	70	0	70	7153.73	112
	Feb 2019	25	49	3	52	52	0	52	7153.73	112
	Mar 2019	40	53	4	57	57	0	57	7153.73	112
	Apr 2019	88	54	11	65	65	0	65	7153.73	112
	May 2019	247	144	26	170	170	0	170	7153.73	112
	Jun 2019	281	54	20	74	74	0	74	7153.73	112
	Jul 2019	123	87	6	93	93	0	93	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 2017 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 2016	62	111	4	114	114	0	114	6749.30	16	62	53
H	Sep 2016	42	103	3	106	106	1	107	6747.05	15	59	47
	WY 2016	1038	978	107	1085	811	243	1084			384	724
I	Oct 2016	37	93	4	97	97	0	97	6747.92	15	57	39
S	Nov 2016	31	35	3	38	37	0	37	6750.47	16	1	36
T	Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
O	Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
R	Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
I	Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	66
C	Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
A	May 2017	285	312	22	334	86	73	331	6759.83	19	62	271
L	Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
*	Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
	Aug 2017	82	117	5	122	120	0	120	6753.04	17	65	55
	Sep 2017	59	110	6	116	116	0	116	6753.04	17	55	61
	WY 2017	1435	1225	112	1338	753	349	1336			412	931
	Oct 2017	55	83	7	90	90	0	90	6753.04	17	30	60
	Nov 2017	45	78	5	83	83	0	83	6753.04	17	0	83
	Dec 2017	40	115	5	120	120	0	120	6753.04	17	0	120
	Jan 2018	37	67	6	73	73	0	73	6753.04	17	0	73
	Feb 2018	30	46	4	50	50	0	50	6753.04	17	0	50
	Mar 2018	46	51	6	57	57	0	57	6753.04	17	5	52
	Apr 2018	92	60	11	71	71	0	71	6753.04	17	30	41
	May 2018	260	166	30	196	134	61	196	6753.04	17	55	141
	Jun 2018	325	74	35	109	109	0	109	6753.04	17	60	49
	Jul 2018	116	100	11	111	111	0	111	6753.04	17	65	46
	Aug 2018	62	105	6	111	111	0	111	6753.04	17	65	46
	Sep 2018	49	101	6	107	107	0	107	6753.04	17	55	52
	WY 2018	1157	1046	132	1178	1117	61	1178			365	813
	Oct 2018	48	71	6	77	77	0	77	6753.04	17	30	47
	Nov 2018	39	66	5	71	71	0	71	6753.04	17	0	71
	Dec 2018	32	106	5	111	111	0	111	6753.04	17	0	111
	Jan 2019	31	70	5	75	75	0	75	6753.04	17	0	75
	Feb 2019	29	52	4	56	56	0	56	6753.04	17	0	56
	Mar 2019	46	57	6	63	63	0	63	6753.04	17	5	58
	Apr 2019	101	65	12	77	77	0	77	6753.04	17	30	47
	May 2019	281	170	34	204	134	70	204	6753.04	17	55	149
	Jun 2019	315	74	34	108	108	0	108	6753.04	17	60	48
	Jul 2019	138	93	14	108	108	0	108	6753.04	17	65	43

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2017 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 2016	15	33	7648.82	84
H	Sep 2016	14	27	7643.21	71
WY 2016		269	270		
I	Oct 2016	11	8	7644.63	74
S	Nov 2016	6	2	7646.51	79
T	Dec 2016	6	2	7647.98	82
O	Jan 2017	7	5	7648.89	84
R	Feb 2017	7	15	7645.42	76
I	Mar 2017	24	24	7645.75	77
C	Apr 2017	45	35	7649.82	87
A	May 2017	67	44	7658.86	109
L	Jun 2017	72	57	7664.54	124
*	Jul 2017	30	39	7660.94	115
	Aug 2017	23	37	7655.23	100
	Sep 2017	18	30	7650.38	88
WY 2017		317	297		
	Oct 2017	15	17	7649.37	85
	Nov 2017	9	3	7651.87	92
	Dec 2017	7	3	7653.51	96
	Jan 2018	6	3	7654.73	99
	Feb 2018	4	2	7655.30	100
	Mar 2018	7	2	7657.25	105
	Apr 2018	20	5	7663.01	120
	May 2018	61	61	7663.01	120
	Jun 2018	67	62	7664.64	124
	Jul 2018	27	42	7658.93	109
	Aug 2018	17	38	7650.44	88
	Sep 2018	15	30	7644.02	73
WY 2018		255	266		
	Oct 2018	14	17	7642.57	70
	Nov 2018	8	2	7645.46	76
	Dec 2018	6	2	7647.37	81
	Jan 2019	5	2	7648.84	84
	Feb 2019	5	2	7650.09	87
	Mar 2019	9	2	7652.78	94
	Apr 2019	23	2	7661.08	115
	May 2019	71	68	7662.32	118
	Jun 2019	70	65	7664.23	123
	Jul 2019	29	42	7659.18	110

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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)
* Aug 2016	30	4	45	4	33	35	6059.16	1337	56
H Sep 2016	21	1	33	3	27	30	6056.98	1310	41
WY 2016	863	96	769	29	169	653			1077
I Oct 2016	27	0	24	2	5	27	6056.19	1300	46
S Nov 2016	24	0	19	1	0	22	6055.87	1296	43
T Dec 2016	25	0	22	1	0	20	6055.92	1297	40
O Jan 2017	34	0	31	1	0	22	6056.65	1306	39
R Feb 2017	55	1	62	1	1	27	6059.31	1339	48
I Mar 2017	176	17	159	2	6	30	6068.54	1460	89
C Apr 2017	235	33	192	3	19	33	6078.18	1598	137
A May 2017	262	45	195	4	25	228	6073.94	1536	315
L Jun 2017	230	46	166	5	40	259	6063.90	1398	458
* Jul 2017	49	11	47	4	43	38	6061.00	1361	93
Aug 2017	37	2	50	4	39	35	6058.75	1332	70
Sep 2017	35	1	46	3	22	29	6058.12	1324	58
WY 2017	1189	156	1013	28	201	769			1436
Oct 2017	42	2	42	2	8	22	6058.91	1334	48
Nov 2017	37	1	30	1	1	21	6059.52	1342	39
Dec 2017	27	0	23	1	1	22	6059.52	1342	37
Jan 2018	24	0	21	1	0	22	6059.41	1340	36
Feb 2018	27	0	25	1	0	19	6059.81	1345	30
Mar 2018	74	3	66	2	5	22	6062.76	1383	40
Apr 2018	144	16	113	3	21	21	6067.92	1452	66
May 2018	270	38	232	4	35	201	6067.29	1444	343
Jun 2018	200	31	164	4	51	238	6057.31	1314	371
Jul 2018	44	6	53	4	56	29	6054.39	1278	84
Aug 2018	35	1	55	3	47	37	6051.66	1245	69
Sep 2018	36	1	50	3	26	30	6050.96	1237	56
WY 2018	960	98	873	27	251	682			1217
Oct 2018	42	2	43	2	10	22	6051.83	1247	46
Nov 2018	32	1	24	1	0	21	6052.05	1250	38
Dec 2018	25	0	20	1	0	22	6051.91	1248	37
Jan 2019	22	0	18	1	0	22	6051.60	1244	35
Feb 2019	30	0	27	1	0	19	6052.17	1251	32
Mar 2019	92	2	83	2	5	22	6056.67	1306	44
Apr 2019	170	15	134	2	21	21	6063.72	1396	73
May 2019	277	37	236	4	36	201	6063.40	1392	347
Jun 2019	224	31	187	4	52	246	6054.28	1277	397
Jul 2019	66	6	73	4	57	28	6052.99	1261	95

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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)
* Aug 2016	253	432	56	900	0	900	3613.55	5101	13091	914
H Sep 2016	281	461	50	699	0	699	3610.93	5080	12824	712
WY 2016	9616	9909	378	9000	0	9000				9117
I Oct 2016	381	477	35	601	0	601	3609.48	5068	12678	610
S Nov 2016	383	389	33	624	126	750	3605.81	5039	12313	754
T Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
O Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
R Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
I Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
C Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
A May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
L Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
* Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
Aug 2017	550	624	63	900	0	900	3631.94	5259	15071	914
Sep 2017	420	545	57	663	0	663	3630.49	5246	14908	672
WY 2017	12234	11660	410	8874	126	9000				9137
Oct 2017	510	598	40	630	0	630	3629.90	5241	14842	636
Nov 2017	490	572	38	630	0	630	3629.11	5234	14753	634
Dec 2017	370	559	30	740	0	740	3627.34	5218	14557	746
Jan 2018	360	502	9	860	0	860	3624.23	5191	14217	866
Feb 2018	390	494	10	750	0	750	3621.95	5171	13971	752
Mar 2018	590	572	17	800	0	800	3619.82	5153	13745	805
Apr 2018	900	774	26	700	0	700	3620.24	5157	13788	708
May 2018	2000	1892	32	700	0	700	3630.08	5243	14862	706
Jun 2018	2600	2308	54	760	0	760	3642.05	5353	16246	766
Jul 2018	800	726	67	860	0	860	3640.49	5339	16061	875
Aug 2018	400	512	65	900	0	900	3636.91	5305	15641	914
Sep 2018	350	469	59	670	0	670	3634.82	5286	15400	679
WY 2018	9760	9978	447	9000	0	9000				9086
Oct 2018	464	522	41	640	0	640	3633.54	5274	15254	646
Nov 2018	450	516	39	640	0	640	3632.22	5262	15103	644
Dec 2018	363	501	31	720	0	720	3630.17	5243	14872	726
Jan 2019	361	463	10	860	0	860	3626.78	5213	14495	866
Feb 2019	393	453	10	750	0	750	3624.18	5191	14211	752
Mar 2019	665	615	17	800	0	800	3622.45	5176	14024	805
Apr 2019	1056	880	27	710	0	710	3623.68	5186	14157	718
May 2019	2343	2170	33	710	0	710	3635.50	5292	15478	716
Jun 2019	2666	2320	56	750	0	750	3647.28	5404	16880	756
Jul 2019	1091	973	69	850	0	850	3647.69	5408	16930	865

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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)
*	Aug 2016	900	107	69	701	11.4	28	700	625	1075.17	9615
H	Sep 2016	699	88	57	702	11.8	22	701	625	1075.23	9620
	WY 2016	9000	798	531	9293		224	9282			
I	Oct 2016	601	78	42	518	8.4	23	517	631	1076.34	9710
S	Nov 2016	750	77	42	751	12.6	16	750	632	1076.55	9727
T	Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
O	Jan 2017	880	128	30	500	8.1	7	494	684	1086.08	10521
R	Feb 2017	711	150	28	488	8.8	7	487	704	1089.78	10838
I	Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
C	Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
A	May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
L	Jun 2017	749	18	53	864	14.5	30	864	648	1079.52	9971
*	Jul 2017	850	88	66	885	14.4	30	885	646	1079.03	9931
	Aug 2017	900	127	71	653	10.6	31	653	662	1082.11	10187
	Sep 2017	663	110	59	649	10.9	28	649	665	1082.55	10224
	WY 2017	9000	1068	541	8638		245	8619			
	Oct 2017	630	71	43	696	11.3	23	696	661	1081.87	10166
	Nov 2017	630	65	43	647	10.9	15	647	660	1081.77	10158
	Dec 2017	740	51	37	592	9.6	11	592	669	1083.46	10299
	Jan 2018	860	64	30	712	11.6	10	712	680	1085.35	10459
	Feb 2018	750	72	28	609	11.0	12	609	690	1087.27	10622
	Mar 2018	800	46	31	1036	16.9	20	1036	676	1084.59	10395
	Apr 2018	700	39	38	1092	18.4	27	1092	650	1079.90	10002
	May 2018	700	26	44	966	15.7	32	966	631	1076.30	9706
	Jun 2018	760	10	52	866	14.5	33	866	620	1074.21	9537
	Jul 2018	860	77	65	828	13.5	36	828	620	1074.31	9545
	Aug 2018	900	127	69	770	12.5	34	770	630	1076.09	9690
	Sep 2018	670	110	57	697	11.7	31	697	630	1076.04	9686
	WY 2018	9000	757	536	9511		282	9511			
	Oct 2018	640	71	42	489	8.0	26	489	639	1077.81	9830
	Nov 2018	640	65	42	632	10.6	18	632	640	1077.95	9842
	Dec 2018	720	51	36	587	9.6	14	587	648	1079.47	9967
	Jan 2019	860	64	30	716	11.7	10	716	658	1081.36	10124
	Feb 2019	750	72	28	610	11.0	12	610	669	1083.30	10286
	Mar 2019	800	46	31	1042	16.9	20	1042	654	1080.52	10054
	Apr 2019	710	39	38	1097	18.4	27	1097	628	1075.81	9667
	May 2019	710	26	43	973	15.8	32	973	609	1072.19	9374
	Jun 2019	750	10	51	873	14.7	33	873	597	1069.87	9189
	Jul 2019	850	77	64	834	13.6	36	834	597	1069.80	9184

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2017 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 2016	701	-12	23	714	0	714	11.6	642.00	1671
H	Sep 2016	702	-18	18	711	0	711	11.9	640.34	1627
	WY 2016	9293	-195	198	8879	0	8879			
I	Oct 2016	518	-7	15	640	0	640	10.4	634.86	1482
S	Nov 2016	751	-29	11	574	0	574	9.6	640.09	1620
T	Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
O	Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
R	Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
I	Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
C	Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
A	May 2017	917	-13	22	846	0	846	13.8	643.74	1719
L	Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
*	Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
	Aug 2017	653	-12	23	676	0	676	11.0	642.50	1685
	Sep 2017	649	-11	18	700	0	700	11.8	639.51	1604
	WY 2017	8638	-188	199	8274	0	8274			
	Oct 2017	696	-4	15	744	0	744	12.1	637.00	1538
	Nov 2017	647	-11	10	625	0	625	10.5	637.00	1538
	Dec 2017	592	-10	9	528	0	528	8.6	638.71	1583
	Jan 2018	712	-19	10	601	0	601	9.8	641.80	1666
	Feb 2018	609	-16	10	583	0	583	10.5	641.80	1666
	Mar 2018	1036	-16	13	973	0	973	15.8	643.05	1700
	Apr 2018	1092	-20	17	1057	0	1057	17.8	643.00	1699
	May 2018	966	-13	22	931	0	931	15.1	643.00	1699
	Jun 2018	866	-18	25	850	0	850	14.3	642.00	1671
	Jul 2018	828	-16	25	800	0	800	13.0	641.50	1658
	Aug 2018	770	-12	23	735	0	735	12.0	641.50	1658
	Sep 2018	697	-11	18	708	0	708	11.9	640.01	1617
	WY 2018	9511	-166	197	9134	0	9134			
	Oct 2018	489	-4	15	653	0	653	10.6	633.00	1434
	Nov 2018	632	-11	10	560	0	560	9.4	635.00	1486
	Dec 2018	587	-10	9	471	0	471	7.7	638.71	1583
	Jan 2019	716	-19	10	605	0	605	9.8	641.80	1666
	Feb 2019	610	-16	10	585	0	585	10.5	641.80	1666
	Mar 2019	1042	-16	13	978	0	978	15.9	643.05	1700
	Apr 2019	1097	-20	17	1062	0	1062	17.8	643.00	1699
	May 2019	973	-13	22	938	0	938	15.3	643.00	1699
	Jun 2019	873	-18	25	857	0	857	14.4	642.00	1671
	Jul 2019	834	-16	25	807	0	807	13.1	641.50	1658

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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)
*	Aug 2016	714	23	17	570	9.3	85	65	448.50	590	99	1.6
H	Sep 2016	711	14	15	490	8.2	89	134	447.97	579	92	1.5
	WY 2016	8879	225	140	6360		1057	1467			1496	
I	Oct 2016	640	36	12	466	7.6	80	133	446.90	559	61	1.0
S	Nov 2016	574	21	9	374	6.3	78	140	446.33	549	97	1.6
T	Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
O	Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
R	Feb 2017	486	15	8	393	7.1	13	62	448.30	586	160	2.9
I	Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
C	Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
A	May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
L	Jun 2017	853	1	15	689	11.6	58	79	448.41	588	126	2.1
*	Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
	Aug 2017	676	25	17	547	8.9	57	72	448.50	590	100	1.6
	Sep 2017	700	20	15	524	8.8	55	136	447.50	571	89	1.5
	WY 2017	8274	241	140	6224		663	1409			1497	
	Oct 2017	744	28	12	496	8.1	112	144	447.50	571	69	1.1
	Nov 2017	625	19	9	410	6.9	110	109	447.50	571	102	1.7
	Dec 2017	528	19	7	333	5.4	112	109	446.50	552	109	1.8
	Jan 2018	601	17	6	361	5.9	90	157	446.50	552	138	2.2
	Feb 2018	583	10	8	482	8.7	24	73	446.50	552	160	2.9
	Mar 2018	973	7	9	717	11.7	90	152	446.70	555	198	3.2
	Apr 2018	1057	19	11	745	12.5	88	183	448.70	593	175	2.9
	May 2018	931	15	13	643	10.5	90	188	448.70	593	104	1.7
	Jun 2018	850	15	16	676	11.4	88	73	448.70	593	105	1.8
	Jul 2018	800	26	17	646	10.5	90	73	448.00	580	111	1.8
	Aug 2018	735	25	17	579	9.4	90	73	447.50	571	100	1.6
	Sep 2018	708	20	15	515	8.7	32	157	447.50	570	89	1.5
	WY 2018	9134	220	139	6604		1015	1491			1461	
	Oct 2018	653	28	12	489	8.0	26	146	447.50	571	74	1.2
	Nov 2018	560	19	9	392	6.6	25	146	447.50	571	116	1.9
	Dec 2018	471	19	7	325	5.3	26	146	446.50	552	131	2.1
	Jan 2019	605	17	6	359	5.8	95	157	446.50	552	138	2.2
	Feb 2019	585	10	8	481	8.7	26	73	446.50	552	160	2.9
	Mar 2019	978	7	9	717	11.7	95	152	446.70	555	198	3.2
	Apr 2019	1062	19	11	745	12.5	93	183	448.70	593	175	2.9
	May 2019	938	15	13	645	10.5	95	188	448.70	593	104	1.7
	Jun 2019	857	15	16	678	11.4	93	73	448.70	593	105	1.8
	Jul 2019	807	26	17	648	10.5	95	73	448.00	580	111	1.8

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2017 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 2016	701	11.4	1075.17	9615	196	431.00	1549.0	265.2	100	378.4
H	Sep 2016	702	11.8	1075.23	9620	5	429.97	1539.0	266.3	100	379.1
WY 2016		9293						3596.9			
I	Oct 2016	518	8.4	1076.34	9710	90	438.10	1335.0	195.2	87	377.1
S	Nov 2016	751	12.6	1076.55	9727	17	427.42	1072.0	290.6	80	386.7
T	Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
O	Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
R	Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
I	Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
C	Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
A	May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
L	Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
*	Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
	Aug 2017	653	10.6	1082.11	10187	256	427.41	1478.1	247.7	93	379.5
	Sep 2017	649	10.9	1082.55	10224	37	430.13	1587.0	248.0	100	382.4
WY 2017		8638						3351.2			
	Oct 2017	696	11.3	1081.87	10166	-57	435.94	978.9	275.9	61	396.2
	Nov 2017	647	10.9	1081.77	10158	-8	437.01	882.9	256.7	56	397.0
	Dec 2017	592	9.6	1083.46	10299	142	437.65	824.9	235.6	52	398.0
	Jan 2018	712	11.6	1085.35	10459	160	436.05	1102.0	281.7	69	395.4
	Feb 2018	609	11.0	1087.27	10622	163	436.24	1214.0	238.1	75	391.3
	Mar 2018	1036	16.9	1084.59	10395	-227	434.71	1311.1	409.5	82	395.1
	Apr 2018	1092	18.4	1079.90	10002	-393	430.70	1285.0	432.5	82	396.1
	May 2018	966	15.7	1076.30	9706	-296	425.20	1472.0	373.3	95	386.4
	Jun 2018	866	14.5	1074.21	9537	-170	422.14	1542.0	328.3	100	379.3
	Jul 2018	828	13.5	1074.31	9545	9	421.65	1542.0	317.9	100	384.0
	Aug 2018	770	12.5	1076.09	9690	144	422.75	1553.0	294.4	100	382.2
	Sep 2018	697	11.7	1076.04	9686	-4	424.09	1553.0	265.3	100	380.6
WY 2018		9511						3709.1			
	Oct 2018	489	8.0	1077.81	9830	145	429.13	1258.1	189.7	80	388.0
	Nov 2018	632	10.6	1077.95	9842	12	432.37	1259.0	243.8	81	385.5
	Dec 2018	587	9.6	1079.47	9967	125	432.02	1166.0	227.6	74	387.4
	Jan 2019	716	11.7	1081.36	10124	157	431.38	1192.3	279.6	75	390.2
	Feb 2019	610	11.0	1083.30	10286	162	431.61	1297.9	235.8	81	386.4
	Mar 2019	1042	16.9	1080.52	10054	-232	430.06	1392.7	405.6	88	389.4
	Apr 2019	1097	18.4	1075.81	9667	-388	426.06	1353.5	428.3	87	390.4
	May 2019	973	15.8	1072.19	9374	-292	420.58	1534.2	371.4	100	381.6
	Jun 2019	873	14.7	1069.87	9189	-185	417.96	1521.2	328.0	100	375.8
	Jul 2019	834	13.6	1069.80	9184	-6	417.27	1520.7	317.3	100	380.3

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 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
*	Aug 2016	714	11.6	642.00	1671	-48	142.46	255.0	91.6	100	128.4
H	Sep 2016	711	11.9	640.34	1627	-45	138.91	255.0	90.5	100	127.3
WY 2016		8879							1129.0		
I	Oct 2016	640	10.4	634.86	1482	-144	135.70	201.5	79.3	79	123.8
S	Nov 2016	574	9.6	640.09	1620	138	140.91	170.9	71.1	67	123.8
T	Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
O	Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
R	Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
I	Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
C	Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
A	May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
L	Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
*	Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
	Aug 2017	676	11.0	642.50	1685	-59	136.62	255.0	86.0	100	127.1
	Sep 2017	700	11.8	639.51	1604	-81	133.95	255.0	87.2	100	124.6
WY 2017		8274							1061.4		
	Oct 2017	744	12.1	637.00	1538	-66	132.58	202.3	90.7	79	122.0
	Nov 2017	625	10.5	637.00	1538	0	132.33	170.0	75.9	67	121.4
	Dec 2017	528	8.6	638.71	1583	45	133.30	167.8	64.9	66	122.9
	Jan 2018	601	9.8	641.80	1666	83	134.43	210.6	74.8	83	124.6
	Feb 2018	583	10.5	641.80	1666	0	136.73	187.6	73.3	74	125.7
	Mar 2018	973	15.8	643.05	1700	34	137.26	190.8	121.1	75	124.5
	Apr 2018	1057	17.8	643.00	1699	-2	136.07	255.0	131.5	100	124.5
	May 2018	931	15.1	643.00	1699	0	136.04	255.0	116.6	100	125.2
	Jun 2018	850	14.3	642.00	1671	-27	135.51	255.0	106.3	100	125.1
	Jul 2018	800	13.0	641.50	1658	-14	134.73	255.0	99.8	100	124.8
	Aug 2018	735	12.0	641.50	1658	0	134.46	255.0	91.9	100	124.9
	Sep 2018	708	11.9	640.01	1617	-40	133.68	255.0	88.0	100	124.3
WY 2018		9134							1134.8		
	Oct 2018	653	10.6	633.00	1434	-183	130.74	202.3	79.0	79	120.9
	Nov 2018	560	9.4	635.00	1486	51	129.19	170.0	66.7	67	119.1
	Dec 2018	471	7.7	638.71	1583	97	132.25	167.8	57.7	66	122.4
	Jan 2019	605	9.8	641.80	1666	83	134.43	210.6	75.3	83	124.6
	Feb 2019	585	10.5	641.80	1666	0	136.73	187.6	73.5	74	125.7
	Mar 2019	978	15.9	643.05	1700	34	137.26	190.8	121.7	75	124.5
	Apr 2019	1062	17.8	643.00	1699	-2	136.07	255.0	132.1	100	124.5
	May 2019	938	15.3	643.00	1699	0	136.04	255.0	117.5	100	125.2
	Jun 2019	857	14.4	642.00	1671	-27	135.51	255.0	107.1	100	125.0
	Jul 2019	807	13.1	641.50	1658	-14	134.73	255.0	100.6	100	124.8

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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
*	Aug 2016	570	9.3	448.50	590	-10	82.60	120.0	40.2	100	70.7
H	Sep 2016	490	8.2	447.97	579	-10	82.24	120.0	34.7	100	70.9
WY 2016		6345						447.6			
I	Oct 2016	466	7.6	446.90	559	-20	78.88	93.6	32.8	78	70.5
S	Nov 2016	374	6.3	446.33	549	-11	80.55	90.0	26.0	75	69.6
T	Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
O	Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
R	Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
I	Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
C	Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
A	May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
L	Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
*	Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
	Aug 2017	547	8.9	448.50	590	-2	75.92	120.0	36.0	100	65.8
	Sep 2017	524	8.8	447.50	571	-19	76.57	94.0	34.9	78	66.5
WY 2017		6224						431.3			
	Oct 2017	496	8.1	447.50	571	0	74.97	118.1	32.2	98	64.9
	Nov 2017	410	6.9	447.50	571	0	76.29	90.0	26.9	75	65.6
	Dec 2017	333	5.4	446.50	552	-19	75.66	92.9	21.4	77	64.2
	Jan 2018	361	5.9	446.50	552	0	74.29	111.3	22.9	93	63.5
	Feb 2018	482	8.7	446.50	552	0	74.73	101.8	31.3	85	65.0
	Mar 2018	717	11.7	446.70	555	4	74.69	104.5	47.1	87	65.6
	Apr 2018	745	12.5	448.70	593	38	75.08	120.0	49.1	100	65.9
	May 2018	643	10.5	448.70	593	0	76.05	120.0	42.7	100	66.3
	Jun 2018	676	11.4	448.70	593	0	76.05	120.0	44.9	100	66.5
	Jul 2018	646	10.5	448.00	580	-13	75.71	120.0	42.7	100	66.1
	Aug 2018	579	9.4	447.50	571	-9	75.13	120.0	37.9	100	65.4
	Sep 2018	515	8.7	447.50	570	0	74.89	120.0	33.5	100	65.0
WY 2018		6604						432.6			
	Oct 2018	489	8.0	447.50	571	0	75.85	98.7	32.1	82	65.7
	Nov 2018	392	6.6	447.50	571	0	75.83	99.0	25.5	83	65.0
	Dec 2018	325	5.3	446.50	552	-19	74.40	120.0	20.5	100	63.1
	Jan 2019	359	5.8	446.50	552	0	75.02	95.8	23.0	80	64.1
	Feb 2019	481	8.7	446.50	552	0	75.21	92.1	31.5	77	65.5
	Mar 2019	717	11.7	446.70	555	4	74.05	119.0	46.6	99	65.0
	Apr 2019	745	12.5	448.70	593	38	75.08	120.0	49.1	100	65.9
	May 2019	645	10.5	448.70	593	0	76.05	120.0	42.8	100	66.3
	Jun 2019	678	11.4	448.70	593	0	76.05	120.0	45.1	100	66.5
	Jul 2019	648	10.5	448.00	580	-13	75.71	120.0	42.8	100	66.1

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2017 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 2016	408	44	33	39	22	6
H Sep 2016	315	42	30	36	20	3
Summer 2016	2111	276	166	218	116	34
I Oct 2016	269	33	26	33	19	0
S Nov 2016	277	30	9	11	6	0
T Dec 2016	395	41	10	11	6	0
O Jan 2017	385	43	10	11	5	0
R Feb 2017	307	43	13	19	10	0
I Mar 2017	312	97	19	22	0	0
Winter 2017	1945	289	87	107	46	0
C Apr 2017	270	102	15	22	6	0
A May 2017	291	105	43	72	17	4
L Jun 2017	346	102	40	66	8	6
* Jul 2017	399	71	35	13	18	8
Aug 2017	381	53	35	42	20	10
Sep 2017	279	53	33	40	20	6
Summer 2017	1966	485	201	255	90	34
Oct 2017	265	54	25	30	16	7
Nov 2017	265	53	23	28	14	6
Dec 2017	310	62	34	41	21	6
Jan 2018	359	63	19	24	13	6
Feb 2018	311	57	13	17	9	5
Mar 2018	331	49	14	18	10	8
Winter 2018	1840	338	127	159	82	39
Apr 2018	289	48	15	22	12	6
May 2018	291	68	43	60	23	7
Jun 2018	323	60	18	27	19	8
Jul 2018	369	36	30	36	19	10
Aug 2018	385	36	32	38	19	7
Sep 2018	285	35	31	36	19	7
Summer 2018	1942	283	168	218	111	45
Oct 2018	271	36	21	25	13	6
Nov 2018	271	35	19	24	12	6
Dec 2018	303	36	31	38	19	6
Jan 2019	360	36	20	25	13	6
Feb 2019	312	32	14	19	10	5
Mar 2019	332	36	15	21	11	6
Winter 2019	1518	175	105	131	67	28
Apr 2019	295	35	15	23	13	6
May 2019	298	56	42	61	23	6
Jun 2019	322	54	16	27	19	8
Jul 2019	369	36	27	34	19	9

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 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	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	MAF
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****											
Aug 2017	235	11	335	8937	9519	17446	26965	235	11	335	581	8937	17446	26965	1500	653	0	33.7	
Sep 2017	249	39	364	9251	9904	17190	27094	249	39	364	652	9251	17190	27094	2270	649	0	33.4	
Oct 2017	311	88	372	9414	10184	17153	27338	311	88	372	770	9414	17153	27338	3040	696	0	33.1	
Nov 2017	379	124	362	9480	10345	17211	27556	379	124	362	865	9480	17211	27556	3810	647	0	32.9	
Dec 2017	440	162	354	9569	10525	17219	27744	440	162	354	956	9569	17219	27744	4580	592	0	32.7	
Jan 2018	553	241	354	9765	10913	17078	27990	553	241	354	1148	9765	17078	27990	5350	712	0	32.4	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2018	553	241	354	9765	10913	17078	27990	163	238	122	524	9765	17078	27366	5350	712	0	32.4	
Feb 2018	660	276	356	10105	11397	16918	28315	271	274	123	668	10105	16918	27691	1500	609	0	32.2	
Mar 2018	752	294	351	10351	11748	16755	28503	362	294	117	774	10351	16755	27880	1500	1036	0	31.8	
Apr 2018	772	304	313	10577	11966	16982	28948	378	304	72	754	10577	16982	28314	1500	1092	0	31.6	
May 2018	761	283	244	10534	11821	17375	29196	359	283	-19	623	10534	17375	28531	1500	966	0	32.5	
Jun 2018	722	229	252	9460	10663	17671	28334	311	221	-50	482	9460	17671	27612	1500	866	0	33.9	
Jul 2018	539	35	382	8076	9032	17840	26872	115	5	24	144	8076	17840	26060	1500	828	0	33.8	
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****											
Aug 2018	443	24	418	8261	9146	17832	26978	443	24	418	885	8261	17832	26978	1500	770	0	33.4	
Sep 2018	470	63	451	8681	9664	17687	27352	470	63	451	984	8681	17687	27352	2270	697	0	33.0	
Oct 2018	522	113	459	8922	10016	17691	27708	522	113	459	1094	8922	17691	27708	3040	489	0	32.8	
Nov 2018	569	140	449	9068	10227	17547	27773	569	140	449	1158	9068	17547	27773	3810	632	0	32.6	
Dec 2018	616	171	446	9219	10453	17535	27988	616	171	446	1234	9219	17535	27988	4580	587	0	32.4	
Jan 2019	681	249	448	9450	10828	17410	28237	681	249	448	1378	9450	17410	28237	5350	716	0	32.2	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2019	681	249	448	9450	10828	17410	28237	388	249	200	837	9450	17410	27697	5350	716	0	32.2	
Feb 2019	741	291	452	9827	11310	17253	28563	446	291	204	940	9827	17253	28021	1500	610	0	32.0	
Mar 2019	787	316	445	10111	11659	17091	28750	490	316	196	1002	10111	17091	28204	1500	1042	0	31.6	
Apr 2019	788	331	390	10298	11807	17323	29130	486	331	134	952	10298	17323	28573	1500	1097	0	31.6	
May 2019	757	312	300	10165	11534	17710	29244	448	312	21	781	10165	17710	28656	1500	973	0	32.8	
Jun 2019	676	244	304	8844	10068	18003	28071	356	237	-14	579	8844	18003	27426	1500	873	0	34.3	
Jul 2019	448	58	419	7442	8367	18188	26554	112	30	45	187	7442	18188	25816	1500	834	0	34.4	

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