

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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The operation of Lake Powell and Lake Mead in this August 2016 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 2016 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2015 24-Month Study projections of the January 1, 2016, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2016.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2016 is the Upper Elevation Balancing Tier. The April 2016 24-Month Study projected the end of water year elevation at Lake Powell to be above 3,575 feet above sea level (feet) and the end of water year elevation at Lake Mead to be below elevation 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 2016. Based on the most probable inflow forecast, this August 24-Month Study projects a balancing release of 9.0 maf in water year 2016.

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 2016.

The August 2016 24-Month Study projects the January 1, 2017 Lake Powell elevation to be below the 2017 Equalization Elevation of 3,652 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell’s operations in water year 2017 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 2017. 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 2017.

The August 2016 24-Month Study projects the January 1, 2017 Lake Mead elevation to be above 1,075 feet. Consistent with Section 2.B.5 of the Interim Guidelines, the ICS Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2017.

The operational tier determinations will be documented in the 2017 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 2016 AOP is available for download at: <http://www.usbr.gov/lc/region/g4000/aop/AOP16.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 0.595 maf or 55 percent of the 30-year average from 1981 to 2010. The forecast for August unregulated inflow into Lake Powell is 0.350 maf or 70 percent of the 30-year average. The preliminary observed 2016 April through July unregulated inflow is 6.610 maf or 92 percent of average.

In this study, the calendar year 2016 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.033 maf. The calendar year 2016 diversion for the Central Arizona Project (CAP) is projected to be 1.491 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.221 maf for calendar year 2016.

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 Larry Karr at (702) 293-8094.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2016 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 2015	53	2	83	1	84	6497.37	279
H Sep 2015	37	2	0	61	61	6493.88	254
WY 2015	1210	16	930	324	1254		
I Oct 2015	46	1	46	15	61	6491.60	238
S Nov 2015	40	1	56	1	57	6489.03	221
T Dec 2015	36	1	58	0	58	6485.40	197
O Jan 2016	32	1	49	10	58	6480.71	170
R Feb 2016	34	0	55	0	55	6476.59	149
I Mar 2016	50	1	58	0	58	6474.73	140
C Apr 2016	91	1	56	0	56	6481.34	174
A May 2016	186	2	86	20	106	6493.63	252
L Jun 2016	293	2	101	143	243	6500.14	299
* Jul 2016	80	3	73	3	76	6500.25	300
Aug 2016	44	2	64	0	64	6497.23	278
Sep 2016	36	2	58	0	58	6493.87	254
WY 2016	968	15	760	192	952		
Oct 2016	40	1	59	0	59	6490.95	234
Nov 2016	40	1	57	0	57	6488.20	217
Dec 2016	33	1	59	0	59	6484.01	190
Jan 2017	28	1	59	0	59	6478.38	158
Feb 2017	27	0	53	0	53	6472.81	131
Mar 2017	43	0	59	0	59	6469.01	115
Apr 2017	68	1	71	0	71	6468.05	111
May 2017	127	1	92	0	92	6475.64	145
Jun 2017	260	2	101	6	107	6499.55	295
Jul 2017	170	3	101	23	125	6505.08	338
Aug 2017	65	2	84	0	84	6502.39	317
Sep 2017	44	2	70	0	70	6498.73	289
WY 2017	945	14	866	29	896		
Oct 2017	47	1	68	0	68	6495.69	267
Nov 2017	42	1	66	0	66	6492.10	242
Dec 2017	32	1	68	0	68	6486.47	205
Jan 2018	30	1	68	0	68	6479.99	167
Feb 2018	28	0	62	0	62	6472.97	132
Mar 2018	53	0	68	0	68	6469.28	116
Apr 2018	85	1	89	0	89	6468.21	112
May 2018	164	1	98	7	105	6480.51	170
Jun 2018	299	2	102	67	170	6499.77	297
Jul 2018	178	3	101	28	129	6505.65	343

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2016 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 2015	56	87	13	104	0	104	141	6033.81	3498	130
H Sep 2015	39	62	11	100	1	101	139	6032.59	3450	127
WY 2015	1562	1606	82	1293	58	1352				2856
I Oct 2015	48	63	7	131	0	131	136	6030.73	3377	162
S Nov 2015	38	55	4	131	0	131	133	6028.73	3300	176
T Dec 2015	38	61	2	137	0	137	130	6026.75	3225	172
O Jan 2016	44	71	2	134	0	134	127	6025.07	3163	168
R Feb 2016	63	84	2	118	0	118	126	6024.11	3127	164
I Mar 2016	84	93	3	51	0	51	127	6025.13	3165	131
C Apr 2016	140	105	5	50	0	50	129	6026.43	3213	316
A May 2016	362	282	8	52	0	52	138	6032.01	3427	701
L Jun 2016	455	405	11	270	198	469	135	6030.17	3356	965
* Jul 2016	91	88	13	116	4	120	133	6029.03	3312	223
Aug 2016	50	70	13	110	0	110	131	6027.70	3261	131
Sep 2016	42	64	11	107	0	107	129	6026.32	3209	122
WY 2016	1455	1440	81	1407	203	1610				3432
Oct 2016	50	69	7	68	0	68	129	6026.16	3203	98
Nov 2016	59	76	3	88	0	88	128	6025.77	3189	123
Dec 2016	40	66	2	105	0	105	127	6024.73	3150	133
Jan 2017	45	76	2	105	0	105	126	6023.94	3121	130
Feb 2017	45	71	2	94	0	94	125	6023.27	3097	118
Mar 2017	92	108	3	50	0	50	127	6024.72	3150	120
Apr 2017	130	133	5	48	0	48	130	6026.82	3228	248
May 2017	188	153	8	111	0	111	131	6027.69	3261	621
Jun 2017	310	157	10	150	0	150	131	6027.61	3258	630
Jul 2017	205	160	13	95	0	95	133	6028.89	3306	177
Aug 2017	76	95	13	95	0	95	133	6028.56	3294	116
Sep 2017	50	76	11	92	0	92	131	6027.87	3267	107
WY 2017	1290	1241	79	1101	0	1101				2621
Oct 2017	55	76	7	95	0	95	130	6027.20	3242	123
Nov 2017	50	74	3	92	0	92	130	6026.65	3222	122
Dec 2017	35	71	2	95	0	95	129	6025.98	3197	121
Jan 2018	40	78	2	95	0	95	128	6025.50	3179	120
Feb 2018	45	79	2	86	0	86	128	6025.25	3169	114
Mar 2018	102	118	3	95	0	95	128	6025.75	3188	172
Apr 2018	134	137	5	92	0	92	130	6026.79	3227	307
May 2018	245	186	8	163	0	163	130	6027.19	3242	695
Jun 2018	390	260	10	134	0	134	135	6030.11	3353	554
Jul 2018	210	162	14	98	0	98	137	6031.33	3401	198

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



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Aug 2015	9	22	9317.56	83
H	Sep 2015	7	18	9311.10	72
WY 2015		166	171		
I	Oct 2015	7	8	9310.71	71
S	Nov 2015	5	6	9310.40	71
T	Dec 2015	5	6	9309.95	70
O	Jan 2016	6	6	9309.87	70
R	Feb 2016	4	5	9309.07	68
I	Mar 2016	5	6	9308.44	67
C	Apr 2016	9	6	9310.70	71
A	May 2016	17	11	9314.16	77
L	Jun 2016	41	20	9325.34	97
*	Jul 2016	11	21	9320.04	87
	Aug 2016	7	16	9314.93	78
	Sep 2016	6	13	9310.70	71
WY 2016		123	124		
	Oct 2016	6	6	9310.70	71
	Nov 2016	5	5	9310.70	71
	Dec 2016	4	5	9310.08	70
	Jan 2017	4	5	9309.44	69
	Feb 2017	3	5	9308.16	67
	Mar 2017	3	5	9306.86	65
	Apr 2017	6	5	9307.52	66
	May 2017	22	10	9314.93	78
	Jun 2017	38	15	9327.41	101
	Jul 2017	14	20	9324.32	95
	Aug 2017	8	20	9317.81	83
	Sep 2017	7	17	9311.94	73
WY 2017		120	118		
	Oct 2017	6	8	9310.98	71
	Nov 2017	5	6	9310.36	70
	Dec 2017	5	6	9309.53	69
	Jan 2018	4	6	9308.48	68
	Feb 2018	4	6	9307.05	65
	Mar 2018	4	6	9306.02	64
	Apr 2018	9	6	9307.83	67
	May 2018	28	20	9313.01	75
	Jun 2018	42	22	9324.06	95
	Jul 2018	20	22	9323.08	93

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 24-Month Study

Most Probable Inflow*

Blue Mesa Reservoir



	Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Aug 2015	59	73	1	105	0	105	7512.97	772
H	Sep 2015	39	50	1	95	0	95	7507.65	726
	WY 2015	1042	1047	9	835	72	912		
I	Oct 2015	33	34	1	87	0	87	7501.39	673
S	Nov 2015	30	31	0	45	0	45	7499.64	658
T	Dec 2015	27	28	0	62	0	62	7495.46	624
O	Jan 2016	27	27	0	61	0	61	7491.12	590
R	Feb 2016	26	27	0	59	0	58	7487.04	559
I	Mar 2016	41	42	0	36	0	37	7487.62	563
C	Apr 2016	75	72	1	63	0	63	7488.62	571
A	May 2016	161	155	1	134	19	153	7488.74	572
L	Jun 2016	285	265	1	46	0	46	7514.84	788
*	Jul 2016	81	91	2	112	0	112	7512.31	766
	Aug 2016	44	53	1	106	0	106	7506.07	712
	Sep 2016	36	43	1	85	0	85	7500.90	669
	WY 2016	866	867	9	895	19	915		
	Oct 2016	35	35	1	63	0	63	7497.36	640
	Nov 2016	30	30	0	35	0	35	7496.72	635
	Dec 2016	26	27	0	87	0	87	7489.10	574
	Jan 2017	23	24	0	44	0	44	7486.49	554
	Feb 2017	19	21	0	28	0	28	7485.56	547
	Mar 2017	31	33	0	35	0	35	7485.26	545
	Apr 2017	65	64	1	52	0	52	7486.73	556
	May 2017	191	179	1	162	0	162	7488.82	572
	Jun 2017	240	217	1	66	0	66	7507.22	722
	Jul 2017	93	99	2	83	0	83	7508.88	736
	Aug 2017	49	61	1	96	0	96	7504.68	700
	Sep 2017	38	48	1	101	0	101	7498.17	646
	WY 2017	840	838	8	852	0	852		
	Oct 2017	38	40	1	74	0	74	7493.84	612
	Nov 2017	31	32	0	37	0	37	7493.25	607
	Dec 2017	26	27	0	56	0	56	7489.49	577
	Jan 2018	24	26	0	50	0	50	7486.33	553
	Feb 2018	22	25	0	31	0	31	7485.51	547
	Mar 2018	36	38	0	38	0	38	7485.41	546
	Apr 2018	77	74	1	55	0	55	7487.84	565
	May 2018	221	213	1	172	0	172	7492.95	604
	Jun 2018	261	241	1	65	0	65	7513.77	779
	Jul 2018	117	119	2	80	0	80	7517.87	816

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	60	105	0	105	106	0	106	7153.74	112
H Sep 2015	39	95	0	95	103	0	103	7143.98	104
WY 2015	1095	912	53	965	926	23	972		
I Oct 2015	34	87	0	87	93	0	93	7135.56	98
S Nov 2015	31	45	1	46	47	0	47	7133.97	97
T Dec 2015	28	62	1	62	46	1	47	7154.01	112
O Jan 2016	27	61	1	62	64	0	64	7150.69	110
R Feb 2016	27	58	1	60	61	0	61	7148.82	108
I Mar 2016	43	37	2	39	36	0	36	7152.74	111
C Apr 2016	83	63	7	71	71	0	71	7152.57	111
A May 2016	176	153	15	168	176	4	180	7136.53	99
L Jun 2016	302	46	18	64	52	0	52	7152.31	111
* Jul 2016	83	112	2	114	113	0	113	7153.43	112
Aug 2016	48	106	4	110	110	0	110	7153.73	112
Sep 2016	36	85	0	85	85	0	85	7153.73	112
WY 2016	918	915	51	967	953	5	959		
Oct 2016	37	63	2	65	65	0	65	7153.73	112
Nov 2016	32	35	2	37	37	0	37	7153.73	112
Dec 2016	28	87	2	89	89	0	89	7153.73	112
Jan 2017	25	44	2	46	46	0	46	7153.73	112
Feb 2017	21	28	2	30	30	0	30	7153.73	112
Mar 2017	35	35	4	39	39	0	39	7153.73	112
Apr 2017	71	52	6	58	58	0	58	7153.73	112
May 2017	210	162	19	181	181	0	181	7153.73	112
Jun 2017	255	66	15	81	81	0	81	7153.73	112
Jul 2017	96	83	3	86	86	0	86	7153.73	112
Aug 2017	50	96	1	97	97	0	97	7153.73	112
Sep 2017	40	101	2	103	103	0	103	7153.73	112
WY 2017	900	852	60	912	912	0	912		
Oct 2017	40	74	2	76	76	0	76	7153.73	112
Nov 2017	33	37	2	39	39	0	39	7153.73	112
Dec 2017	28	56	2	58	58	0	58	7153.73	112
Jan 2018	27	50	2	52	52	0	52	7153.73	112
Feb 2018	25	31	3	33	33	0	33	7153.73	112
Mar 2018	40	38	4	42	42	0	42	7153.73	112
Apr 2018	88	55	11	66	66	0	66	7153.73	112
May 2018	247	172	26	198	198	0	198	7153.73	112
Jun 2018	281	65	20	85	85	0	85	7153.73	112
Jul 2018	123	80	6	87	87	0	87	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 2016 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 2015	63	106	4	110	110	0	111	6749.17	16	65	47
H	Sep 2015	42	103	3	106	96	11	107	6744.61	15	57	50
	WY 2015	1201	972	106	1078	843	171	1078			393	709
I	Oct 2015	37	93	3	96	0	94	94	6750.81	16	51	44
S	Nov 2015	34	47	3	50	0	50	50	6750.12	16	0	51
T	Dec 2015	32	47	4	51	40	12	52	6747.07	15	1	53
O	Jan 2016	31	64	4	68	67	0	68	6748.20	16	1	69
R	Feb 2016	30	61	3	64	63	0	63	6752.48	17	0	65
I	Mar 2016	48	36	5	41	41	0	41	6752.32	17	2	41
C	Apr 2016	92	71	9	80	80	0	80	6751.41	16	47	36
A	May 2016	194	180	18	198	109	64	197	6753.13	17	51	154
L	Jun 2016	344	52	41	93	74	20	93	6752.00	17	43	53
*	Jul 2016	89	113	6	119	117	2	119	6750.04	16	64	58
	Aug 2016	53	110	5	115	114	0	114	6753.04	17	65	49
	Sep 2016	42	85	6	91	91	0	91	6753.04	17	55	36
	WY 2016	1025	959	107	1066	796	242	1063			382	709
	Oct 2016	43	65	6	71	71	0	71	6753.04	17	30	41
	Nov 2016	36	37	4	41	41	0	41	6753.04	17	0	41
	Dec 2016	33	89	5	94	94	0	94	6753.04	17	0	94
	Jan 2017	29	46	4	50	50	0	50	6753.04	17	0	50
	Feb 2017	24	30	3	33	33	0	33	6753.04	17	0	33
	Mar 2017	40	39	5	44	44	0	44	6753.04	17	5	39
	Apr 2017	81	58	10	68	68	0	68	6753.04	17	30	38
	May 2017	235	181	25	206	134	72	206	6753.04	17	55	151
	Jun 2017	280	81	25	106	106	0	106	6753.04	17	60	46
	Jul 2017	105	86	9	95	95	0	95	6753.04	17	65	30
	Aug 2017	53	97	3	100	100	0	100	6753.04	17	65	35
	Sep 2017	46	103	6	109	109	0	109	6753.04	17	55	54
	WY 2017	1005	912	105	1017	945	72	1017			365	652
	Oct 2017	46	76	6	82	82	0	82	6753.04	17	30	52
	Nov 2017	38	39	5	43	43	0	43	6753.04	17	0	43
	Dec 2017	32	58	5	63	63	0	63	6753.04	17	0	63
	Jan 2018	31	52	5	57	57	0	57	6753.04	17	0	57
	Feb 2018	29	33	4	37	37	0	37	6753.04	17	0	37
	Mar 2018	46	42	6	48	48	0	48	6753.04	17	5	43
	Apr 2018	101	66	12	79	79	0	79	6753.04	17	30	49
	May 2018	281	198	34	232	134	98	232	6753.04	17	55	177
	Jun 2018	315	85	34	119	119	0	119	6753.04	17	60	59
	Jul 2018	138	87	14	101	101	0	101	6753.04	17	65	36

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

August 2016 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 2015	13	35	7652.83	94
H	Sep 2015	11	29	7645.08	75
WY 2015		294	285		
I	Oct 2015	17	15	7645.65	77
S	Nov 2015	11	5	7648.25	83
T	Dec 2015	7	4	7649.57	86
O	Jan 2016	6	7	7649.21	85
R	Feb 2016	7	6	7649.77	86
I	Mar 2016	14	6	7652.71	94
C	Apr 2016	25	13	7657.23	105
A	May 2016	60	44	7663.23	121
L	Jun 2016	77	73	7664.30	124
*	Jul 2016	17	38	7656.15	102
	Aug 2016	12	38	7645.40	76
	Sep 2016	13	29	7637.77	60
WY 2016		265	277		
	Oct 2016	11	17	7634.93	54
	Nov 2016	7	4	7636.62	57
	Dec 2016	6	4	7637.72	60
	Jan 2017	5	4	7638.32	61
	Feb 2017	4	3	7638.60	61
	Mar 2017	6	4	7639.62	63
	Apr 2017	18	4	7646.03	78
	May 2017	67	32	7660.19	113
	Jun 2017	65	55	7663.84	122
	Jul 2017	28	42	7658.47	108
	Aug 2017	18	38	7650.37	88
	Sep 2017	15	30	7643.94	73
WY 2017		250	233		
	Oct 2017	14	17	7642.49	70
	Nov 2017	8	4	7644.59	74
	Dec 2017	6	4	7645.73	77
	Jan 2018	5	4	7646.43	79
	Feb 2018	5	3	7647.00	80
	Mar 2018	9	4	7649.00	85
	Apr 2018	23	4	7656.87	104
	May 2018	71	52	7663.99	123
	Jun 2018	70	70	7663.96	123
	Jul 2018	29	42	7658.99	109

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	15	1	36	4	33	42	6065.47	1419	63
H Sep 2015	15	0	33	3	25	33	6063.41	1392	48
WY 2015	900	90	797	27	170	289			890
I Oct 2015	42	1	40	2	9	29	6063.43	1392	55
S Nov 2015	37	1	30	1	0	21	6064.00	1400	39
T Dec 2015	23	0	19	1	0	21	6063.81	1397	34
O Jan 2016	22	0	23	1	0	22	6063.77	1396	34
R Feb 2016	42	2	39	1	1	28	6064.39	1405	43
I Mar 2016	81	7	67	2	4	25	6067.08	1441	52
C Apr 2016	119	13	94	3	19	22	6070.75	1491	53
A May 2016	207	26	165	4	12	91	6074.87	1549	175
L Jun 2016	212	33	174	5	25	250	6067.29	1443	404
* Jul 2016	24	4	40	5	37	79	6061.29	1364	102
Aug 2016	23	1	48	4	41	41	6058.31	1327	66
Sep 2016	27	1	43	3	25	32	6056.97	1310	54
WY 2016	858	88	781	29	174	660			1112
Oct 2016	26	1	30	2	14	25	6056.18	1300	46
Nov 2016	31	0	27	1	2	22	6056.34	1302	38
Dec 2016	23	0	21	1	0	23	6056.10	1299	37
Jan 2017	19	0	18	1	0	23	6055.61	1293	35
Feb 2017	24	0	23	1	0	21	6055.74	1295	31
Mar 2017	67	2	63	2	5	23	6058.41	1328	39
Apr 2017	130	14	101	2	20	22	6062.83	1384	63
May 2017	272	39	197	4	34	105	6066.89	1438	246
Jun 2017	196	34	152	4	50	238	6055.99	1298	368
Jul 2017	57	7	63	4	55	30	6053.90	1272	85
Aug 2017	35	1	53	3	46	37	6051.14	1239	69
Sep 2017	35	1	49	3	26	29	6050.44	1231	56
WY 2017	915	101	798	27	252	598			1113
Oct 2017	41	2	42	2	9	23	6051.12	1239	48
Nov 2017	31	1	26	1	0	22	6051.34	1241	39
Dec 2017	25	0	22	1	0	23	6051.23	1240	38
Jan 2018	22	0	20	1	0	23	6050.94	1237	37
Feb 2018	30	0	29	1	0	21	6051.54	1244	33
Mar 2018	92	2	85	2	5	23	6056.13	1299	45
Apr 2018	170	15	136	2	21	22	6063.27	1390	75
May 2018	277	40	218	4	35	151	6065.37	1418	297
Jun 2018	224	34	189	4	51	266	6055.01	1286	417
Jul 2018	66	8	71	4	56	36	6052.91	1260	104

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 24-Month Study

Most Probable Inflow*

Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Aug 2015	313	466	54	799	0	799	3609.07	5065	12637	814
H	Sep 2015	276	435	49	714	0	714	3606.01	5040	12333	726
	WY 2015	10174	9419	368	8868	132	9000				9136
I	Oct 2015	535	680	34	600	0	600	3606.44	5044	12375	609
S	Nov 2015	421	506	32	577	0	577	3605.47	5036	12280	583
T	Dec 2015	266	393	26	857	0	857	3600.80	5000	11827	863
O	Jan 2016	300	433	8	857	0	857	3596.58	4968	11427	865
R	Feb 2016	396	490	8	700	0	700	3594.41	4952	11224	704
I	Mar 2016	553	486	14	694	0	694	3592.18	4935	11019	707
C	Apr 2016	814	681	22	665	0	665	3592.12	4935	11014	681
A	May 2016	2294	1925	26	700	0	700	3603.87	5024	12123	714
L	Jun 2016	2907	2618	46	800	0	800	3620.01	5155	13764	812
*	Jul 2016	595	804	58	950	0	950	3618.22	5140	13576	969
	Aug 2016	350	531	56	900	0	900	3614.43	5108	13182	915
	Sep 2016	350	495	51	698	0	698	3612.13	5089	12946	712
	WY 2016	9782	10041	379	9000	0	9000				9135
	Oct 2016	450	510	35	600	0	600	3610.99	5080	12831	609
	Nov 2016	420	447	33	600	0	600	3609.28	5066	12658	604
	Dec 2016	330	456	26	800	0	800	3605.83	5039	12315	803
	Jan 2017	320	404	8	800	0	800	3602.00	5009	11941	807
	Feb 2017	350	405	8	650	0	650	3599.55	4990	11707	654
	Mar 2017	550	475	14	650	0	650	3597.70	4976	11532	655
	Apr 2017	830	661	22	600	0	600	3598.08	4979	11568	609
	May 2017	2220	2021	28	650	0	650	3610.80	5079	12811	658
	Jun 2017	2580	2372	47	800	0	800	3624.29	5192	14223	807
	Jul 2017	820	735	59	1000	0	1000	3621.51	5168	13924	1016
	Aug 2017	420	535	57	1050	0	1050	3616.49	5125	13394	1065
	Sep 2017	340	466	51	800	0	800	3613.02	5097	13037	813
	WY 2017	9630	9488	390	9000	0	9000				9102
	Oct 2017	455	524	35	600	0	600	3612.02	5088	12935	609
	Nov 2017	447	486	34	600	0	600	3610.67	5078	12798	604
	Dec 2017	363	452	27	800	0	800	3607.21	5050	12451	803
	Jan 2018	361	443	8	800	0	800	3603.77	5023	12113	807
	Feb 2018	393	433	9	650	0	650	3601.61	5006	11905	654
	Mar 2018	665	598	14	650	0	650	3600.98	5001	11843	655
	Apr 2018	1056	879	23	600	0	600	3603.43	5020	12081	609
	May 2018	2343	2161	29	650	0	650	3617.05	5130	13453	658
	Jun 2018	2666	2342	49	800	0	800	3629.84	5240	14835	807
	Jul 2018	1091	976	61	1000	0	1000	3629.13	5234	14756	1016

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	799	114	70	803	13.1	27	802	642	1078.31	9871
H	Sep 2015	714	72	58	723	12.1	24	722	641	1078.10	9854
WY 2015		9000	722	540	9246		221	9215			
I	Oct 2015	600	118	42	578	9.4	20	577	645	1078.99	9927
S	Nov 2015	577	41	42	631	10.6	12	630	641	1078.23	9865
T	Dec 2015	857	43	36	619	10.1	9	618	656	1080.91	10087
O	Jan 2016	857	89	30	662	10.8	8	661	671	1083.68	10318
R	Feb 2016	700	81	28	699	12.2	10	698	673	1084.17	10360
I	Mar 2016	694	31	31	1008	16.4	18	1007	653	1080.45	10048
C	Apr 2016	665	68	38	1055	17.7	18	1055	630	1076.13	9693
A	May 2016	700	50	43	887	14.4	22	885	618	1073.80	9504
L	Jun 2016	800	14	51	920	15.5	28	919	606	1071.64	9330
*	Jul 2016	950	71	64	831	13.5	31	840	612	1072.75	9419
	Aug 2016	900	124	69	682	11.1	25	682	627	1075.64	9653
	Sep 2016	698	112	57	705	11.8	19	705	629	1075.98	9680
WY 2016		9000	842	531	9277		219	9277			
	Oct 2016	600	69	42	514	8.4	22	514	635	1077.03	9767
	Nov 2016	600	56	42	651	10.9	12	651	632	1076.47	9721
	Dec 2016	800	54	36	596	9.7	8	596	645	1078.93	9923
	Jan 2017	800	62	30	728	11.8	8	728	651	1080.02	10013
	Feb 2017	650	73	27	728	13.1	7	728	648	1079.57	9975
	Mar 2017	650	55	30	1034	16.8	15	1034	626	1075.28	9624
	Apr 2017	600	53	37	1097	18.4	21	1097	595	1069.41	9153
	May 2017	650	37	42	990	16.1	29	990	572	1064.94	8802
	Jun 2017	800	21	49	884	14.9	29	884	563	1063.22	8669
	Jul 2017	1000	78	62	840	13.7	31	840	572	1064.98	8805
	Aug 2017	1050	124	67	760	12.4	29	760	592	1068.81	9105
	Sep 2017	800	112	55	728	12.2	16	728	599	1070.15	9212
WY 2017		9000	795	519	9550		226	9550			
	Oct 2017	600	69	41	481	7.8	20	481	607	1071.65	9331
	Nov 2017	600	56	41	619	10.4	11	619	606	1071.48	9318
	Dec 2017	800	54	35	570	9.3	7	570	620	1074.31	9545
	Jan 2018	800	62	29	691	11.2	15	691	628	1075.78	9665
	Feb 2018	650	73	27	662	11.9	17	662	629	1075.97	9680
	Mar 2018	650	55	30	1006	16.4	23	1006	608	1071.86	9348
	Apr 2018	600	53	36	1055	17.7	26	1055	579	1066.34	8911
	May 2018	650	37	41	960	15.6	32	960	558	1062.15	8587
	Jun 2018	800	21	49	918	15.4	32	918	547	1059.97	8421
	Jul 2018	1000	78	61	831	13.5	32	831	557	1061.86	8565

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	803	-16	23	775	0	775	12.6	642.12	1675
H	Sep 2015	723	-16	18	758	0	758	12.7	639.56	1606
WY 2015		9246	-142	198	8945	0	8945			
I	Oct 2015	578	-7	15	655	0	655	10.7	635.80	1507
S	Nov 2015	631	-14	10	599	0	599	10.1	636.11	1514
T	Dec 2015	619	-13	9	527	0	527	8.6	638.77	1585
O	Jan 2016	662	-32	10	553	0	553	9.0	641.26	1651
R	Feb 2016	699	-20	10	675	0	675	11.7	641.04	1645
I	Mar 2016	1008	-16	13	921	0	921	15.0	643.17	1703
C	Apr 2016	1055	-18	17	979	0	979	16.4	644.70	1746
A	May 2016	887	-6	22	903	0	903	14.7	643.07	1701
L	Jun 2016	920	-16	26	838	0	838	14.1	644.53	1741
*	Jul 2016	831	-24	26	803	0	803	13.1	643.75	1719
	Aug 2016	682	-11	23	696	0	696	11.3	642.00	1671
	Sep 2016	705	-9	18	732	0	732	12.3	640.01	1617
WY 2016		9277	-185	198	8881	0	8881			
	Oct 2016	514	-1	15	681	0	681	11.1	633.00	1434
	Nov 2016	651	-8	10	581	0	581	9.8	635.00	1486
	Dec 2016	596	-12	9	477	0	477	7.8	638.71	1583
	Jan 2017	728	-14	10	622	0	622	10.1	641.80	1666
	Feb 2017	728	-14	10	705	0	705	12.7	641.80	1666
	Mar 2017	1034	-16	13	972	0	972	15.8	643.05	1700
	Apr 2017	1097	-19	17	1063	0	1063	17.9	643.00	1699
	May 2017	990	-13	22	955	0	955	15.5	643.00	1699
	Jun 2017	884	-16	25	870	0	870	14.6	642.00	1671
	Jul 2017	840	-13	25	815	0	815	13.3	641.50	1658
	Aug 2017	760	-11	23	726	0	726	11.8	641.50	1658
	Sep 2017	728	-9	18	741	0	741	12.5	640.01	1617
WY 2017		9550	-146	197	9206	0	9206			
	Oct 2017	481	-1	15	648	0	648	10.5	633.00	1434
	Nov 2017	619	-8	10	549	0	549	9.2	635.00	1486
	Dec 2017	570	-12	9	451	0	451	7.3	638.71	1583
	Jan 2018	691	-14	10	584	0	584	9.5	641.80	1666
	Feb 2018	662	-14	10	639	0	639	11.5	641.80	1666
	Mar 2018	1006	-16	13	943	0	943	15.3	643.05	1700
	Apr 2018	1055	-19	17	1021	0	1021	17.2	643.00	1699
	May 2018	960	-13	22	924	0	924	15.0	643.00	1699
	Jun 2018	918	-16	25	903	0	903	15.2	642.00	1671
	Jul 2018	831	-13	25	806	0	806	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 2016 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 2015	775	16	17	580	9.4	107	70	448.30	586	93	1.5
H	Sep 2015	758	19	15	487	8.2	104	168	448.04	581	90	1.5
	WY 2015	8945	179	140	6135		1195	1566			1510	
I	Oct 2015	655	34	12	458	7.5	101	115	447.88	578	59	1.0
S	Nov 2015	599	11	9	385	6.5	98	120	447.57	572	93	1.6
T	Dec 2015	527	22	7	321	5.2	101	130	446.92	560	105	1.7
O	Jan 2016	553	26	6	324	5.3	97	156	446.60	554	154	2.5
R	Feb 2016	675	10	8	543	9.4	13	117	446.50	552	180	3.1
I	Mar 2016	921	18	9	695	11.3	89	123	447.40	569	221	3.6
C	Apr 2016	979	18	11	689	11.6	93	169	448.89	597	202	3.4
A	May 2016	903	13	13	636	10.3	97	176	448.08	581	97	1.6
L	Jun 2016	838	18	15	633	10.6	95	89	448.81	596	92	1.5
*	Jul 2016	803	20	17	617	10.0	100	74	449.03	600	102	1.7
	Aug 2016	696	26	17	556	9.0	85	70	448.00	580	94	1.5
	Sep 2016	732	23	15	515	8.7	76	143	447.80	576	89	1.5
	WY 2016	8881	240	140	6371		1044	1482			1489	
	Oct 2016	681	27	12	467	7.6	98	130	447.50	571	65	1.1
	Nov 2016	581	22	9	372	6.3	94	122	447.50	571	103	1.7
	Dec 2016	477	19	7	286	4.7	96	122	446.50	552	115	1.9
	Jan 2017	622	13	6	388	6.3	82	154	446.50	552	154	2.5
	Feb 2017	705	12	8	485	8.7	73	143	446.50	552	180	3.2
	Mar 2017	972	4	9	724	11.8	82	150	446.70	555	206	3.4
	Apr 2017	1063	19	11	761	12.8	79	182	448.70	593	192	3.2
	May 2017	955	16	13	675	11.0	82	189	448.70	593	97	1.6
	Jun 2017	870	14	16	688	11.6	79	87	448.70	593	98	1.6
	Jul 2017	815	29	17	655	10.7	82	90	448.00	580	99	1.6
	Aug 2017	726	26	17	558	9.1	82	91	447.50	571	99	1.6
	Sep 2017	741	23	15	507	8.5	79	153	447.50	570	89	1.5
	WY 2017	9206	224	139	6567		1007	1613			1497	
	Oct 2017	648	27	12	466	7.6	82	108	447.50	571	68	1.1
	Nov 2017	549	22	9	370	6.2	79	108	447.50	571	103	1.7
	Dec 2017	451	19	7	288	4.7	82	108	446.50	552	115	1.9
	Jan 2018	584	13	6	380	6.2	100	106	446.50	552	150	2.4
	Feb 2018	639	12	8	478	8.6	57	100	446.50	552	175	3.1
	Mar 2018	943	4	9	720	11.7	83	124	446.70	555	199	3.2
	Apr 2018	1021	19	11	759	12.8	97	124	448.70	593	185	3.1
	May 2018	924	16	13	678	11.0	100	137	448.70	593	93	1.5
	Jun 2018	903	14	16	691	11.6	97	100	448.70	593	94	1.6
	Jul 2018	806	29	17	656	10.7	100	62	448.00	580	95	1.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	803	13.1	1078.31	9871	13	434.75	1451.0	307.8	93	383.4
H	Sep 2015	723	12.1	1078.10	9854	-17	435.36	1563.0	275.2	100	380.7
WY 2015		9246							3596.9		
I	Oct 2015	578	9.4	1078.99	9927	73	435.13	1088.0	221.8	70	383.6
S	Nov 2015	631	10.6	1078.23	9865	-63	433.49	1088.0	244.8	70	387.9
T	Dec 2015	619	10.1	1080.91	10087	222	434.77	1069.0	241.9	68	390.9
O	Jan 2016	662	10.8	1083.68	10318	232	438.04	775.0	258.5	49	390.7
R	Feb 2016	699	12.2	1084.17	10360	41	437.39	880.0	277.0	55	396.1
I	Mar 2016	1008	16.4	1080.45	10048	-311	434.20	973.0	402.7	61	399.7
C	Apr 2016	1055	17.7	1076.13	9693	-355	429.37	1244.0	413.9	80	392.2
A	May 2016	887	14.4	1073.80	9504	-189	426.83	1164.0	343.6	74	387.5
L	Jun 2016	920	15.5	1071.64	9330	-174	425.27	1528.0	349.7	100	380.2
*	Jul 2016	831	13.5	1072.75	9419	89	427.46	1528.0	311.5	100	374.8
	Aug 2016	682	11.1	1075.64	9653	233	420.85	1549.0	254.3	100	372.9
	Sep 2016	705	11.8	1075.98	9680	28	423.67	1551.0	266.7	100	378.4
WY 2016		9277							3586.5		
	Oct 2016	514	8.4	1077.03	9767	86	429.36	1162.0	198.9	75	387.2
	Nov 2016	651	10.9	1076.47	9721	-46	431.76	1179.0	250.4	76	384.9
	Dec 2016	596	9.7	1078.93	9923	202	429.55	1378.0	227.1	88	381.3
	Jan 2017	728	11.8	1080.02	10013	90	429.76	1285.0	281.4	82	386.3
	Feb 2017	728	13.1	1079.57	9975	-37	429.51	1218.9	285.2	77	391.6
	Mar 2017	1034	16.8	1075.28	9624	-352	426.44	1244.0	400.1	80	386.8
	Apr 2017	1097	18.4	1069.41	9153	-471	420.91	1231.9	423.7	81	386.2
	May 2017	990	16.1	1064.94	8802	-351	415.92	1193.0	371.0	80	374.6
	Jun 2017	884	14.9	1063.22	8669	-133	411.08	1480.0	325.6	100	368.3
	Jul 2017	840	13.7	1064.98	8805	136	411.59	1490.0	313.5	100	373.3
	Aug 2017	760	12.4	1068.81	9105	300	414.52	1512.0	282.7	100	372.1
	Sep 2017	728	12.2	1070.15	9212	106	417.56	1520.0	272.4	100	374.4
WY 2017		9550							3632.0		
	Oct 2017	481	7.8	1071.65	9331	119	423.80	1138.1	182.7	74	380.0
	Nov 2017	619	10.4	1071.48	9318	-13	427.49	1030.1	238.9	67	386.3
	Dec 2017	570	9.3	1074.31	9545	227	427.44	970.8	217.4	63	381.6
	Jan 2018	691	11.2	1075.78	9665	120	425.36	1257.8	262.3	82	379.8
	Feb 2018	662	11.9	1075.97	9680	15	425.62	1195.4	254.1	77	383.8
	Mar 2018	1006	16.4	1071.86	9348	-332	422.95	1221.1	384.1	80	382.0
	Apr 2018	1055	17.7	1066.34	8911	-436	417.69	1210.3	402.3	81	381.1
	May 2018	960	15.6	1062.15	8587	-324	413.02	1173.5	361.0	80	376.2
	Jun 2018	918	15.4	1059.97	8421	-167	408.09	1453.3	336.9	100	367.1
	Jul 2018	831	13.5	1061.86	8565	144	408.43	1464.0	307.4	100	369.9

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	775	12.6	642.12	1675	-12	142.40	255.0	99.2	100	127.9
H	Sep 2015	758	12.7	639.56	1606	-69	137.76	255.0	95.5	100	126.0
WY 2015		8945							1122.4		
I	Oct 2015	655	10.7	635.80	1507	-99	136.05	211.7	81.6	83	124.5
S	Nov 2015	599	10.1	636.11	1514	8	136.53	165.8	72.5	65	121.0
T	Dec 2015	527	8.6	638.77	1585	70	135.98	155.6	65.1	61	123.6
O	Jan 2016	553	9.0	641.26	1651	67	141.86	163.2	71.9	64	129.9
R	Feb 2016	675	11.7	641.04	1645	-6		178.5	86.3	70	127.8
I	Mar 2016	921	15.0	643.17	1703	58	139.07	214.2	117.9	84	128.0
C	Apr 2016	979	16.4	644.70	1746	42	143.66	255.0	125.4	100	128.2
A	May 2016	903	14.7	643.07	1701	-45	141.63	252.5	115.5	99	127.8
L	Jun 2016	838	14.1	644.53	1741	40	143.17	255.0	107.4	100	128.1
*	Jul 2016	803	13.1	643.75	1719	-22	144.39	252.5	103.3	99	128.6
	Aug 2016	696	11.3	642.00	1671	-48	135.91	255.0	87.9	100	126.4
	Sep 2016	732	12.3	640.01	1617	-54	133.94	255.0	91.0	100	124.4
WY 2016		8881							1125.8		
	Oct 2016	681	11.1	633.00	1434	-183	129.77	234.6	82.2	92	120.7
	Nov 2016	581	9.8	635.00	1486	51	128.06	204.0	69.2	80	119.0
	Dec 2016	477	7.8	638.71	1583	97	130.45	224.4	58.4	88	122.3
	Jan 2017	622	10.1	641.80	1666	83	135.03	191.3	77.4	75	124.5
	Feb 2017	705	12.7	641.80	1666	0	137.09	176.0	88.1	69	124.9
	Mar 2017	972	15.8	643.05	1700	34	135.44	255.0	121.0	100	124.5
	Apr 2017	1063	17.9	643.00	1699	-2	136.07	255.0	132.3	100	124.4
	May 2017	955	15.5	643.00	1699	0	136.04	255.0	119.5	100	125.1
	Jun 2017	870	14.6	642.00	1671	-27	135.51	255.0	108.6	100	124.9
	Jul 2017	815	13.3	641.50	1658	-14	134.73	255.0	101.6	100	124.7
	Aug 2017	726	11.8	641.50	1658	0	134.46	255.0	90.7	100	125.0
	Sep 2017	741	12.5	640.01	1617	-40	133.68	255.0	91.9	100	124.1
WY 2017		9206							1140.8		
	Oct 2017	648	10.5	633.00	1434	-183	129.77	234.6	78.4	92	120.9
	Nov 2017	549	9.2	635.00	1486	51	128.06	204.0	65.5	80	119.2
	Dec 2017	451	7.3	638.71	1583	97	130.45	224.4	55.3	88	122.5
	Jan 2018	584	9.5	641.80	1666	83	135.03	191.3	72.8	75	124.7
	Feb 2018	639	11.5	641.80	1666	0	137.09	176.0	80.1	69	125.4
	Mar 2018	943	15.3	643.05	1700	34	135.44	255.0	117.5	100	124.7
	Apr 2018	1021	17.2	643.00	1699	-2	136.07	255.0	127.3	100	124.6
	May 2018	924	15.0	643.00	1699	0	136.04	255.0	115.8	100	125.3
	Jun 2018	903	15.2	642.00	1671	-27	135.51	255.0	112.7	100	124.8
	Jul 2018	806	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 2016 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 2015	580	9.4	448.30	586	6	82.40	120.0	40.9	100	70.4
H	Sep 2015	487	8.2	448.04	581	-5	82.23	120.0	34.6	100	71.1
WY 2015		6135						430.7			
I	Oct 2015	458	7.5	447.88	578	-3	81.97	91.2	32.3	76	70.6
S	Nov 2015	385	6.5	447.57	572	-6	83.21	96.0	27.1	80	70.3
T	Dec 2015	321	5.2	446.92	560	-12	82.51	120.0	21.9	100	68.4
O	Jan 2016	324	5.3	446.60	554	-6	80.76	94.8	22.3	79	68.8
R	Feb 2016	528	9.4	446.50	552	-2	78.54	87.6	38.1	73	72.2
I	Mar 2016	695	11.3	447.40	569	17	81.63	104.4	48.9	87	70.3
C	Apr 2016	689	11.6	448.89	597	28	83.09	120.0	48.4	100	70.3
A	May 2016	636	10.3	448.08	581	-15	82.13	120.0	45.1	100	70.9
L	Jun 2016	633	10.6	448.81	596	14	83.02	120.0	44.8	100	70.8
*	Jul 2016	617	10.0	449.03	600	4	83.16	120.0	43.7	100	70.9
	Aug 2016	556	9.0	448.00	580	-20	75.87	120.0	36.6	100	65.8
	Sep 2016	515	8.7	447.80	576	-4	75.27	120.0	33.6	100	65.3
WY 2016		6356						442.8			
	Oct 2016	467	7.6	447.50	571	-6	75.89	100.8	30.6	84	65.5
	Nov 2016	372	6.3	447.50	571	0	75.92	97.2	24.2	81	64.9
	Dec 2016	286	4.7	446.50	552	-19	74.40	120.0	17.9	100	62.6
	Jan 2017	388	6.3	446.50	552	0	75.13	93.6	25.0	78	64.5
	Feb 2017	485	8.7	446.50	552	0	74.71	102.0	31.6	85	65.1
	Mar 2017	724	11.8	446.70	555	4	74.01	120.0	47.0	100	65.0
	Apr 2017	761	12.8	448.70	593	38	75.08	120.0	50.2	100	65.9
	May 2017	675	11.0	448.70	593	0	76.05	120.0	44.8	100	66.4
	Jun 2017	688	11.6	448.70	593	0	76.05	120.0	45.8	100	66.5
	Jul 2017	655	10.7	448.00	580	-13	75.71	120.0	43.3	100	66.1
	Aug 2017	558	9.1	447.50	571	-9	75.13	120.0	36.4	100	65.3
	Sep 2017	507	8.5	447.50	570	0	74.89	120.0	32.9	100	65.0
WY 2017		6567						429.8			
	Oct 2017	466	7.6	447.50	571	0	75.74	100.8	30.5	84	65.4
	Nov 2017	370	6.2	447.50	571	0	75.92	97.2	24.0	81	64.9
	Dec 2017	288	4.7	446.50	552	-19	74.40	120.0	18.1	100	62.6
	Jan 2018	380	6.2	446.50	552	0	74.89	98.4	24.4	82	64.2
	Feb 2018	478	8.6	446.50	552	0	75.07	94.8	31.2	79	65.4
	Mar 2018	720	11.7	446.70	555	4	74.01	120.0	46.8	100	65.0
	Apr 2018	759	12.8	448.70	593	38	75.08	120.0	50.1	100	65.9
	May 2018	678	11.0	448.70	593	0	76.05	120.0	45.0	100	66.4
	Jun 2018	691	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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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 2015	357	42	32	38	21	7
H Sep 2015	317	40	28	37	18	0
Summer 2015	2049	256	173	241	111	39
I Oct 2015	264	52	26	32	0	4
S Nov 2015	256	52	13	15	0	4
T Dec 2015	378	53	18	16	7	4
O Jan 2016	373	52	17	22	13	3
R Feb 2016	302	45	16	21	12	4
I Mar 2016	298	20	10	11	7	4
Winter 2016	1871	274	100	118	38	23
C Apr 2016	288	19	18	25	16	4
A May 2016	305	20	38	61	21	7
L Jun 2016	360	105	14	18	15	9
* Jul 2016	435	46	34	40	22	6
Aug 2016	367	40	33	39	20	6
Sep 2016	283	39	26	31	16	5
Summer 2016	2037	269	162	213	109	36
Oct 2016	242	25	19	24	12	5
Nov 2016	241	32	10	13	7	5
Dec 2016	320	38	26	32	16	5
Jan 2017	318	38	13	17	9	4
Feb 2017	256	34	8	11	6	4
Mar 2017	255	18	10	14	8	4
Winter 2017	1632	185	87	110	58	27
Apr 2017	235	17	15	21	12	5
May 2017	258	41	47	65	23	6
Jun 2017	327	55	20	29	18	8
Jul 2017	413	35	26	31	16	10
Aug 2017	430	35	29	35	17	8
Sep 2017	325	34	31	37	19	6
Summer 2017	1989	216	168	218	106	43
Oct 2017	242	35	22	27	14	6
Nov 2017	242	34	11	14	7	6
Dec 2017	321	35	17	21	11	6
Jan 2018	319	35	15	19	10	5
Feb 2018	257	31	9	12	6	4
Mar 2018	257	35	11	15	8	5
Winter 2018	1381	169	73	93	49	27
Apr 2018	237	34	16	24	14	6
May 2018	261	59	51	71	23	7
Jun 2018	331	49	20	31	21	9
Jul 2018	418	36	25	31	17	10

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



August 2016 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	MAF	
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****											
Aug 2016	482	63	332	10746	11623	17958	29581	482	63	332	877	10746	17958	29581	1500	682	0	30.9	
Sep 2016	555	117	369	11140	12182	17724	29906	555	117	369	1042	11140	17724	29906	2270	705	0	30.5	
Oct 2016	630	161	386	11376	12553	17697	30250	630	161	386	1177	11376	17697	30250	3040	514	0	30.2	
Nov 2016	657	190	396	11491	12734	17610	30344	657	190	396	1242	11491	17610	30344	3810	651	0	30.0	
Dec 2016	689	195	394	11664	12941	17656	30597	689	195	394	1278	11664	17656	30597	4580	596	0	29.8	
Jan 2017	754	255	397	12007	13413	17454	30868	754	255	397	1406	12007	17454	30868	5350	728	0	29.5	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2017	754	255	397	12007	13413	17454	30868	362	192	156	710	12007	17454	30171	5350	728	0	29.5	
Feb 2017	815	275	403	12381	13873	17364	31238	422	213	161	796	12381	17364	30541	1500	728	0	29.2	
Mar 2017	866	282	401	12615	14164	17402	31566	471	222	159	851	12615	17402	30868	1500	1034	0	28.7	
Apr 2017	829	284	368	12790	14272	17753	32025	429	226	119	773	12790	17753	31317	1500	1097	0	28.5	
May 2017	755	273	312	12754	14095	18224	32319	347	213	40	599	12754	18224	31577	1500	990	0	29.5	
Jun 2017	688	257	258	11511	12714	18575	31290	270	184	-52	401	11511	18575	30487	1500	884	0	31.0	
Jul 2017	541	108	398	10099	11146	18708	29854	110	10	33	153	10099	18708	28960	1500	840	0	30.8	
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****											
Aug 2017	449	93	424	10398	11365	18572	29937	449	93	424	967	10398	18572	29937	1500	760	0	30.5	
Sep 2017	483	129	457	10928	11997	18272	30269	483	129	457	1069	10928	18272	30269	2270	728	0	30.1	
Oct 2017	537	183	465	11285	12470	18165	30636	537	183	465	1185	11285	18165	30636	3040	481	0	29.8	
Nov 2017	584	218	457	11387	12647	18046	30693	584	218	457	1260	11387	18046	30693	3810	619	0	29.7	
Dec 2017	630	223	455	11524	12831	18059	30891	630	223	455	1308	11524	18059	30891	4580	570	0	29.5	
Jan 2018	692	252	456	11871	13271	17832	31103	692	252	456	1400	11871	17832	31103	5350	691	0	29.3	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2018	692	252	456	11871	13271	17832	31103	402	252	206	860	11871	17832	30562	5350	691	0	29.3	
Feb 2018	749	276	459	12209	13693	17712	31406	457	276	209	942	12209	17712	30863	1500	662	0	29.1	
Mar 2018	793	283	452	12417	13945	17697	31642	498	283	201	982	12417	17697	31096	1500	1006	0	28.8	
Apr 2018	790	283	397	12479	13948	18029	31978	491	283	138	913	12479	18029	31421	1500	1055	0	28.8	
May 2018	755	265	306	12241	13568	18466	32033	450	265	25	739	12241	18466	31446	1500	960	0	30.0	
Jun 2018	682	225	278	10869	12055	18790	30845	368	225	-42	551	10869	18790	30210	1500	918	0	31.5	
Jul 2018	444	51	410	9487	10392	18956	29348	112	37	35	183	9487	18956	28627	1500	831	0	31.6	

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