

To: All Annual Operating Plan Recipients

From: Lower Colorado Region  
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The operation of Lake Powell and Lake Mead in this September 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 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 September 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 projected 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 projected 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 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](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 August was 0.446 maf or 89 percent of the 30-year average from 1981 to 2010. The forecast for September unregulated inflow into Lake Powell is 0.360 maf or 88 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 0.762 maf. The calendar year 2017 diversion for the Central Arizona Project (CAP) is projected to be 1.391 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



## September 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)
* Sep 2016	26	2	36	21	58	6490.22	229
<b>WY 2016</b>	<b>943</b>	<b>15</b>	<b>739</b>	<b>213</b>	<b>952</b>		
H Oct 2016	57	1	0	57	57	6490.08	228
I Nov 2016	62	1	0	59	59	6490.44	230
S Dec 2016	37	1	0	63	63	6486.33	203
T Jan 2017	45	1	0	63	63	6483.20	184
O Feb 2017	51	1	0	57	57	6482.06	178
R Mar 2017	180	1	0	150	150	6486.90	207
I Apr 2017	225	1	0	304	304	6472.17	128
C May 2017	430	1	54	373	427	6472.55	129
A Jun 2017	732	2	74	469	543	6502.49	317
L Jul 2017	332	3	88	230	319	6503.83	328
* Aug 2017	102	2	95	61	156	6496.34	271
Sep 2017	64	2	71	0	71	6495.07	263
<b>WY 2017</b>	<b>2317</b>	<b>15</b>	<b>382</b>	<b>1886</b>	<b>2268</b>		
Oct 2017	63	1	74	0	74	6493.37	251
Nov 2017	58	1	71	0	71	6491.33	237
Dec 2017	48	1	74	0	74	6487.28	210
Jan 2018	45	1	74	0	74	6482.51	181
Feb 2018	40	1	67	0	67	6477.50	154
Mar 2018	60	0	89	0	89	6471.32	125
Apr 2018	88	1	92	9	101	6468.05	111
May 2018	155	1	97	7	105	6478.79	160
Jun 2018	300	2	101	77	179	6497.41	280
Jul 2018	180	3	102	12	114	6505.71	343
Aug 2018	72	2	74	0	74	6505.19	339
Sep 2018	46	2	71	0	71	6501.71	312
<b>WY 2018</b>	<b>1155</b>	<b>15</b>	<b>986</b>	<b>105</b>	<b>1091</b>		
Oct 2018	49	1	68	0	68	6499.03	292
Nov 2018	42	1	65	0	65	6495.73	268
Dec 2018	32	1	68	0	68	6490.50	231
Jan 2019	30	1	68	0	68	6484.57	193
Feb 2019	28	1	61	0	61	6478.57	159
Mar 2019	53	0	85	0	85	6471.68	126
Apr 2019	85	1	93	4	97	6468.82	114
May 2019	164	1	96	54	150	6471.79	127
Jun 2019	299	2	99	56	155	6495.95	269
Jul 2019	178	3	101	0	101	6505.70	343
Aug 2019	77	2	90	0	90	6503.71	327

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 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)
* Sep 2016	36	67	11	107	0	107	129	6026.27	3207	128
<b>WY 2016</b>	<b>1427</b>	<b>1437</b>	<b>80</b>	<b>1406</b>	<b>203</b>	<b>1609</b>				<b>3435</b>
H Oct 2016	70	70	7	85	0	85	128	6025.69	3186	119
I Nov 2016	73	70	4	77	0	77	128	6025.41	3175	112
S Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
T Jan 2017	49	67	2	110	0	110	124	6023.01	3087	149
O Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
R Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
I Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
C May 2017	582	580	8	278	171	449	129	6026.15	3203	857
A Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
L Jul 2017	387	374	14	180	48	228	142	6034.61	3531	314
* Aug 2017	120	174	13	143	0	143	143	6035.05	3548	172
Sep 2017	76	83	12	143	0	143	140	6033.34	3480	153
<b>WY 2017</b>	<b>3143</b>	<b>3094</b>	<b>81</b>	<b>2018</b>	<b>712</b>	<b>2730</b>				<b>4215</b>
Oct 2017	80	91	8	148	0	148	137	6031.77	3418	172
Nov 2017	75	88	4	143	0	143	135	6030.34	3362	174
Dec 2017	54	80	2	169	0	169	132	6028.05	3274	194
Jan 2018	64	93	2	172	0	172	129	6025.97	3196	194
Feb 2018	64	91	2	156	0	156	126	6024.23	3132	178
Mar 2018	120	149	3	106	0	106	128	6025.27	3170	173
Apr 2018	145	158	5	101	0	101	130	6026.61	3220	291
May 2018	225	175	8	174	0	174	129	6026.43	3213	669
Jun 2018	360	239	10	164	0	164	132	6028.07	3275	614
Jul 2018	213	147	14	98	0	98	133	6028.95	3309	176
Aug 2018	85	87	13	98	0	98	132	6028.34	3286	119
Sep 2018	55	80	11	95	0	95	131	6027.69	3261	110
<b>WY 2018</b>	<b>1540</b>	<b>1476</b>	<b>80</b>	<b>1624</b>	<b>0</b>	<b>1624</b>				<b>3064</b>
Oct 2018	59	78	7	98	0	98	130	6026.98	3234	126
Nov 2018	51	74	3	95	0	95	129	6026.36	3211	125
Dec 2018	35	71	2	98	0	98	128	6025.60	3182	124
Jan 2019	40	78	2	98	0	98	127	6025.02	3161	123
Feb 2019	45	78	2	89	0	89	127	6024.68	3148	117
Mar 2019	102	135	3	98	0	98	128	6025.55	3180	175
Apr 2019	134	145	5	95	0	95	130	6026.71	3224	310
May 2019	245	231	8	159	0	159	132	6028.36	3286	691
Jun 2019	390	245	11	146	0	146	136	6030.59	3372	566
Jul 2019	210	133	14	98	0	98	136	6031.12	3392	198
Aug 2019	89	102	13	98	0	98	136	6030.89	3384	124

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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)
* Sep 2016	6	14	9310.77	71
<b>WY 2016</b>	<b>125</b>	<b>125</b>		
H Oct 2016	5	6	9310.23	70
I Nov 2016	4	5	9309.76	70
S Dec 2016	5	5	9309.56	69
T Jan 2017	6	5	9309.76	70
O Feb 2017	4	5	9309.43	69
R Mar 2017	6	6	9309.23	69
I Apr 2017	13	9	9312.04	73
C May 2017	30	19	9318.55	84
A Jun 2017	62	45	9327.76	102
L Jul 2017	24	26	9326.95	100
* Aug 2017	12	25	9320.31	88
Sep 2017	8	18	9314.49	77
<b>WY 2017</b>	<b>179</b>	<b>173</b>		
Oct 2017	8	8	9314.26	77
Nov 2017	7	6	9314.85	78
Dec 2017	6	6	9314.56	77
Jan 2018	5	6	9313.97	76
Feb 2018	4	6	9312.77	74
Mar 2018	4	6	9311.55	72
Apr 2018	8	8	9311.55	72
May 2018	27	17	9317.45	82
Jun 2018	43	22	9328.60	103
Jul 2018	16	22	9325.55	97
Aug 2018	9	20	9319.69	86
Sep 2018	7	16	9314.56	77
<b>WY 2018</b>	<b>143</b>	<b>143</b>		
Oct 2018	6	8	9313.63	76
Nov 2018	5	6	9313.04	75
Dec 2018	5	6	9312.24	74
Jan 2019	4	6	9311.23	72
Feb 2019	4	6	9309.86	70
Mar 2019	4	6	9308.87	68
Apr 2019	9	6	9310.61	71
May 2019	28	20	9315.60	79
Jun 2019	42	22	9326.32	99
Jul 2019	20	22	9325.36	97
Aug 2019	10	20	9320.20	87

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 2017 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)
* Sep 2016	38	46	1	100	0	100	7500.48	665
<b>WY 2016</b>	<b>881</b>	<b>882</b>	<b>9</b>	<b>913</b>	<b>19</b>	<b>934</b>		
H Oct 2016	32	33	1	90	0	90	7493.44	608
I Nov 2016	26	27	0	33	0	33	7492.53	601
S Dec 2016	26	26	0	35	0	35	7491.43	593
T Jan 2017	29	28	0	34	0	34	7490.68	587
O Feb 2017	28	29	0	44	1	44	7488.71	571
R Mar 2017	70	70	0	69	0	70	7488.71	571
I Apr 2017	145	140	1	53	0	53	7499.55	658
C May 2017	244	233	1	151	65	293	7491.98	597
A Jun 2017	392	373	1	139	35	175	7515.35	793
L Jul 2017	135	137	2	113	0	110	7518.20	819
* Aug 2017	84	96	1	112	0	112	7516.38	802
Sep 2017	47	57	1	111	0	111	7510.24	748
<b>WY 2017</b>	<b>1257</b>	<b>1251</b>	<b>9</b>	<b>983</b>	<b>101</b>	<b>1159</b>		
Oct 2017	45	45	1	74	0	74	7506.88	719
Nov 2017	35	34	0	73	0	73	7502.18	679
Dec 2017	30	31	0	113	0	113	7491.97	597
Jan 2018	29	30	0	76	0	76	7485.97	550
Feb 2018	24	26	0	42	0	42	7483.84	534
Mar 2018	36	38	0	44	0	44	7482.97	528
Apr 2018	71	71	1	55	0	55	7484.96	543
May 2018	200	190	1	142	0	142	7491.02	589
Jun 2018	280	259	1	62	0	62	7514.41	785
Jul 2018	101	107	2	98	0	98	7515.27	792
Aug 2018	53	64	1	105	0	105	7510.53	750
Sep 2018	41	50	1	91	0	91	7505.66	709
<b>WY 2018</b>	<b>945</b>	<b>945</b>	<b>9</b>	<b>975</b>	<b>0</b>	<b>975</b>		
Oct 2018	40	42	1	68	0	68	7502.54	682
Nov 2018	32	33	0	62	0	62	7498.99	653
Dec 2018	26	27	0	95	0	95	7490.49	585
Jan 2019	24	26	0	38	0	38	7488.86	572
Feb 2019	22	25	0	32	0	32	7487.81	564
Mar 2019	36	38	0	38	0	38	7487.75	564
Apr 2019	77	74	1	48	0	48	7491.07	590
May 2019	221	213	1	154	0	154	7498.31	648
Jun 2019	261	241	1	81	0	81	7516.87	807
Jul 2019	117	119	2	99	0	99	7518.85	825
Aug 2019	63	73	1	108	0	108	7514.82	788

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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)
* Sep 2016	39	100	1	100	103	0	103	7150.03	109
<b>WY 2016</b>	<b>931</b>	<b>934</b>	<b>49</b>	<b>983</b>	<b>972</b>	<b>5</b>	<b>978</b>		
H Oct 2016	33	90	1	91	93	0	93	7146.55	106
I Nov 2016	28	33	2	36	32	0	35	7147.39	107
S Dec 2016	27	35	1	36	34	0	34	7150.44	109
T Jan 2017	30	34	2	36	33	0	33	7153.75	112
O Feb 2017	29	44	1	45	55	0	55	7140.48	102
R Mar 2017	74	70	5	74	64	0	68	7148.96	108
I Apr 2017	157	53	12	66	65	0	65	7149.64	109
C May 2017	263	293	19	312	203	0	312	7149.70	109
A Jun 2017	411	175	19	195	184	0	193	7151.34	110
L Jul 2017	139	110	4	114	37	0	111	7155.13	113
* Aug 2017	86	112	2	113	0	0	115	7152.58	111
Sep 2017	48	111	1	112	111	0	111	7153.73	112
<b>WY 2017</b>	<b>1326</b>	<b>1159</b>	<b>69</b>	<b>1228</b>	<b>912</b>	<b>0</b>	<b>1225</b>		
Oct 2017	46	74	1	75	75	0	75	7153.73	112
Nov 2017	36	73	1	74	74	0	74	7153.73	112
Dec 2017	32	113	2	115	115	0	115	7153.73	112
Jan 2018	31	76	2	78	78	0	78	7153.73	112
Feb 2018	26	42	2	44	44	0	44	7153.73	112
Mar 2018	40	44	4	48	48	0	48	7153.73	112
Apr 2018	81	55	10	65	65	0	65	7153.73	112
May 2018	225	142	25	167	167	0	167	7153.73	112
Jun 2018	300	62	20	82	82	0	82	7153.73	112
Jul 2018	105	98	4	102	102	0	102	7153.73	112
Aug 2018	55	105	2	107	107	0	107	7153.73	112
Sep 2018	43	91	2	93	93	0	93	7153.73	112
<b>WY 2018</b>	<b>1020</b>	<b>975</b>	<b>75</b>	<b>1050</b>	<b>1050</b>	<b>0</b>	<b>1050</b>		
Oct 2018	42	68	2	70	70	0	70	7153.73	112
Nov 2018	34	62	2	64	64	0	64	7153.73	112
Dec 2018	28	95	2	97	97	0	97	7153.73	112
Jan 2019	27	38	2	41	41	0	41	7153.73	112
Feb 2019	25	32	3	35	35	0	35	7153.73	112
Mar 2019	40	38	4	42	42	0	42	7153.73	112
Apr 2019	88	48	11	59	59	0	59	7153.73	112
May 2019	247	154	26	180	180	0	180	7153.73	112
Jun 2019	281	81	20	101	101	0	101	7153.73	112
Jul 2019	123	99	6	105	105	0	105	7153.73	112
Aug 2019	67	108	3	112	112	0	112	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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)
*	Sep 2016	42	103	3	106	106	1	107	6747.05	15	59	47
	<b>WY 2016</b>	<b>1038</b>	<b>978</b>	<b>107</b>	<b>1085</b>	<b>811</b>	<b>243</b>	<b>1084</b>			<b>384</b>	<b>724</b>
H	Oct 2016	37	93	4	97	97	0	97	6747.92	15	57	39
I	Nov 2016	31	35	3	38	37	0	37	6750.47	16	1	36
S	Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
T	Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
O	Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
R	Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	67
I	Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
C	May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
A	Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
L	Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
*	Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
	Sep 2017	54	111	6	117	114	0	114	6753.04	17	55	59
	<b>WY 2017</b>	<b>1437</b>	<b>1225</b>	<b>111</b>	<b>1336</b>	<b>751</b>	<b>350</b>	<b>1334</b>			<b>409</b>	<b>933</b>
	Oct 2017	53	75	7	82	82	0	82	6753.04	17	30	52
	Nov 2017	41	74	5	79	79	0	79	6753.04	17	0	79
	Dec 2017	37	115	5	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	44	4	48	48	0	48	6753.04	17	0	48
	Mar 2018	46	48	6	54	54	0	54	6753.04	17	5	49
	Apr 2018	93	65	12	77	77	0	77	6753.04	17	30	47
	May 2018	255	167	30	197	134	63	197	6753.04	17	55	142
	Jun 2018	335	82	35	117	117	0	117	6753.04	17	60	57
	Jul 2018	117	102	12	114	114	0	114	6753.04	17	65	49
	Aug 2018	62	107	7	114	114	0	114	6753.04	17	65	49
	Sep 2018	49	93	6	99	99	0	99	6753.04	17	55	44
	<b>WY 2018</b>	<b>1155</b>	<b>1050</b>	<b>135</b>	<b>1185</b>	<b>1122</b>	<b>63</b>	<b>1185</b>			<b>365</b>	<b>820</b>
	Oct 2018	48	70	6	76	76	0	76	6753.04	17	30	46
	Nov 2018	39	64	5	69	69	0	69	6753.04	17	0	69
	Dec 2018	32	97	5	101	101	0	101	6753.04	17	0	101
	Jan 2019	31	41	5	45	45	0	45	6753.04	17	0	45
	Feb 2019	29	35	4	39	39	0	39	6753.04	17	0	39
	Mar 2019	46	42	6	48	48	0	48	6753.04	17	5	43
	Apr 2019	101	59	12	71	71	0	71	6753.04	17	30	41
	May 2019	281	180	34	214	134	80	214	6753.04	17	55	159
	Jun 2019	315	101	34	134	130	5	134	6753.04	17	60	74
	Jul 2019	138	105	14	120	120	0	120	6753.04	17	65	55
	Aug 2019	75	112	8	120	120	0	120	6753.04	17	65	55

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

September 2017 24-Month Study

Most Probable Inflow\*

**Vallecito Reservoir**



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Sep 2016	14	27	7643.21	71
<b>WY 2016</b>	<b>269</b>	<b>270</b>		
H Oct 2016	11	8	7644.63	74
I Nov 2016	6	2	7646.51	79
S Dec 2016	6	2	7647.98	82
T Jan 2017	7	5	7648.89	84
O Feb 2017	7	15	7645.42	76
R Mar 2017	24	24	7645.75	77
I Apr 2017	45	35	7649.82	87
C May 2017	67	44	7658.86	109
A Jun 2017	72	57	7664.54	124
L Jul 2017	30	39	7660.94	115
* Aug 2017	19	33	7655.15	100
Sep 2017	14	29	7648.92	84
<b>WY 2017</b>	<b>309</b>	<b>292</b>		
Oct 2017	14	17	7647.47	81
Nov 2017	8	2	7650.04	87
Dec 2017	7	2	7652.14	92
Jan 2018	5	2	7653.39	95
Feb 2018	4	2	7654.28	97
Mar 2018	7	2	7656.24	102
Apr 2018	18	2	7662.35	118
May 2018	60	53	7664.76	125
Jun 2018	68	67	7664.77	125
Jul 2018	27	42	7658.99	109
Aug 2018	17	38	7650.51	88
Sep 2018	15	30	7644.10	73
<b>WY 2018</b>	<b>250</b>	<b>258</b>		
Oct 2018	14	17	7642.64	70
Nov 2018	8	2	7645.53	76
Dec 2018	6	2	7647.44	81
Jan 2019	5	2	7648.91	84
Feb 2019	5	2	7650.16	87
Mar 2019	9	2	7652.85	94
Apr 2019	23	2	7661.15	115
May 2019	71	61	7664.79	125
Jun 2019	70	70	7664.66	125
Jul 2019	29	42	7659.68	111
Aug 2019	20	38	7652.39	93

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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)
* Sep 2016	21	1	33	3	27	30	6056.98	1310	41
<b>WY 2016</b>	<b>863</b>	<b>96</b>	<b>769</b>	<b>29</b>	<b>169</b>	<b>653</b>			<b>1077</b>
H Oct 2016	27	0	24	2	5	27	6056.19	1300	46
I Nov 2016	24	0	19	1	0	22	6055.87	1296	43
S Dec 2016	25	0	22	1	0	20	6055.92	1297	40
T Jan 2017	34	0	31	1	0	22	6056.65	1306	39
O Feb 2017	55	1	62	1	1	27	6059.31	1339	48
R Mar 2017	176	17	159	2	6	30	6068.54	1460	89
I Apr 2017	235	33	192	3	19	33	6078.18	1598	137
C May 2017	262	45	195	4	25	228	6073.94	1536	315
A Jun 2017	230	46	166	5	40	259	6063.90	1398	458
L Jul 2017	49	11	47	4	43	38	6061.00	1361	93
* Aug 2017	29	5	38	4	35	36	6058.07	1323	54
Sep 2017	28	1	42	3	22	30	6057.02	1310	53
<b>WY 2017</b>	<b>1174</b>	<b>159</b>	<b>997</b>	<b>28</b>	<b>197</b>	<b>771</b>			<b>1415</b>
Oct 2017	37	2	38	2	8	23	6057.41	1315	46
Nov 2017	33	1	26	1	1	21	6057.70	1319	39
Dec 2017	27	0	22	1	1	22	6057.61	1318	37
Jan 2018	24	0	21	1	0	22	6057.51	1316	35
Feb 2018	27	0	25	1	0	19	6057.85	1321	30
Mar 2018	66	2	58	2	5	22	6060.23	1351	40
Apr 2018	130	15	99	3	21	21	6064.45	1405	61
May 2018	255	37	211	4	35	22	6075.29	1555	161
Jun 2018	195	32	162	5	51	22	6081.02	1640	156
Jul 2018	44	6	53	5	56	51	6077.01	1580	107
Aug 2018	35	1	55	4	47	65	6072.75	1519	97
Sep 2018	32	1	46	3	26	145	6063.35	1391	171
<b>WY 2018</b>	<b>905</b>	<b>98</b>	<b>814</b>	<b>30</b>	<b>251</b>	<b>453</b>			<b>978</b>
Oct 2018	39	2	40	2	10	31	6063.20	1389	55
Nov 2018	31	1	23	1	0	30	6062.63	1382	47
Dec 2018	25	0	20	1	0	31	6061.79	1371	46
Jan 2019	22	0	18	1	0	31	6060.78	1358	44
Feb 2019	30	0	27	1	0	28	6060.66	1356	40
Mar 2019	92	2	83	2	5	22	6064.87	1411	44
Apr 2019	170	14	134	3	21	21	6071.48	1501	73
May 2019	277	37	230	4	36	256	6066.71	1436	403
Jun 2019	224	32	191	4	52	276	6055.74	1295	428
Jul 2019	66	6	72	4	57	43	6053.14	1263	111
Aug 2019	45	1	62	3	48	34	6051.24	1240	72

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2017 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Unreg	Regulated	Evap	PowerPlant	Bypass	Total	Reservoir Elev	Bank	EOM	Lees
	Inflow	Inflow	Losses	Release	Release	Release	End of Month	Storage	Storage	Ferry Gage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Sep 2016	281	461	50	699	0	699	3610.93	5080	12824	712
<b>WY 2016</b>	<b>9616</b>	<b>9909</b>	<b>378</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9117</b>
H Oct 2016	381	477	35	601	0	601	3609.48	5068	12678	610
I Nov 2016	383	389	33	624	126	750	3605.81	5039	12313	754
S Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
T Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
O Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
R Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
I Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
C May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
A Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
L Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
* Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	931
Sep 2017	360	512	57	663	0	663	3629.16	5234	14759	672
<b>WY 2017</b>	<b>12069</b>	<b>11499</b>	<b>409</b>	<b>8874</b>	<b>126</b>	<b>9000</b>				<b>9154</b>
Oct 2017	510	603	39	630	0	630	3628.61	5230	14698	636
Nov 2017	490	585	38	630	0	630	3627.93	5223	14622	634
Dec 2017	370	564	30	740	0	740	3626.19	5208	14431	746
Jan 2018	360	513	9	860	0	860	3623.16	5182	14101	866
Feb 2018	390	492	10	750	0	750	3620.84	5162	13853	752
Mar 2018	590	547	17	800	0	800	3618.49	5142	13604	805
Apr 2018	900	767	26	700	0	700	3618.85	5145	13642	708
May 2018	1950	1681	32	700	0	700	3627.01	5215	14520	706
Jun 2018	2600	2096	52	760	0	760	3637.49	5310	15709	766
Jul 2018	800	751	65	860	0	860	3636.11	5298	15548	875
Aug 2018	400	543	63	900	0	900	3632.71	5266	15159	914
Sep 2018	350	580	58	670	0	670	3631.50	5255	15022	679
<b>WY 2018</b>	<b>9710</b>	<b>9722</b>	<b>438</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9086</b>
Oct 2018	464	533	40	640	0	640	3630.30	5245	14886	646
Nov 2018	450	525	38	640	0	640	3629.03	5233	14744	644
Dec 2018	363	501	30	720	0	720	3626.95	5215	14514	726
Jan 2019	361	442	9	860	0	860	3623.32	5183	14118	866
Feb 2019	393	445	10	750	0	750	3620.60	5160	13827	752
Mar 2019	665	600	17	800	0	800	3618.70	5144	13626	805
Apr 2019	1056	874	26	710	0	710	3619.90	5154	13753	718
May 2019	2343	2241	33	710	0	710	3632.55	5265	15140	716
Jun 2019	2666	2378	55	750	0	750	3644.97	5381	16598	756
Jul 2019	1091	1001	68	850	0	850	3645.60	5388	16674	865
Aug 2019	500	592	68	900	0	900	3642.72	5360	16326	914

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2017 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Glen Release	Side Inflow	Evap Losses	Total Release	Total Release	SNWP Use	Downstream Requirements	Bank Storage	Reservoir Elev End of Month	EOM Storage
Date	(1000 Ac-Ft)	Glen to Hoover (1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Sep 2016	699	88	57	702	11.8	22	701	625	1075.23	9620
<b>WY 2016</b>	<b>9000</b>	<b>798</b>	<b>531</b>	<b>9293</b>		<b>224</b>	<b>9282</b>			
H Oct 2016	601	78	42	518	8.4	23	517	631	1076.34	9710
I Nov 2016	750	77	42	751	12.6	16	750	632	1076.55	9727
S Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
T Jan 2017	880	128	30	500	8.1	7	494	684	1086.08	10521
O Feb 2017	711	150	28	488	8.8	7	487	704	1089.78	10838
R Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
I Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
C May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
A Jun 2017	749	17	53	864	14.5	29	864	648	1079.52	9971
L Jul 2017	850	88	66	885	14.4	30	885	646	1079.03	9931
* Aug 2017	900	94	70	683	11.1	27	683	658	1081.44	10131
Sep 2017	663	110	58	660	11.1	29	660	660	1081.73	10155
<b>WY 2017</b>	<b>9000</b>	<b>1033</b>	<b>541</b>	<b>8681</b>		<b>241</b>	<b>8660</b>			
Oct 2017	630	71	42	677	11.0	24	677	657	1081.25	10115
Nov 2017	630	65	42	654	11.0	16	654	656	1081.05	10098
Dec 2017	740	51	37	590	9.6	13	590	666	1082.75	10240
Jan 2018	860	64	30	712	11.6	10	712	676	1084.65	10400
Feb 2018	750	72	28	609	11.0	12	609	687	1086.57	10563
Mar 2018	800	46	31	1036	16.9	20	1036	672	1083.89	10336
Apr 2018	700	39	38	1092	18.4	27	1092	646	1079.18	9943
May 2018	700	26	43	966	15.7	32	966	627	1075.57	9647
Jun 2018	760	10	52	866	14.5	33	866	616	1073.48	9478
Jul 2018	860	77	65	828	13.5	36	828	617	1073.59	9487
Aug 2018	900	127	69	770	12.5	34	770	626	1075.37	9631
Sep 2018	670	110	57	697	11.7	31	697	626	1075.32	9627
<b>WY 2018</b>	<b>9000</b>	<b>757</b>	<b>535</b>	<b>9497</b>		<b>287</b>	<b>9497</b>			
Oct 2018	640	71	42	489	8.0	26	489	635	1077.10	9772
Nov 2018	640	65	42	632	10.6	18	632	636	1077.25	9784
Dec 2018	720	51	36	587	9.6	14	587	644	1078.77	9909
Jan 2019	860	64	30	716	11.7	10	716	654	1080.66	10066
Feb 2019	750	72	28	610	11.0	12	610	665	1082.61	10228
Mar 2019	800	46	31	1042	16.9	20	1042	650	1079.82	9996
Apr 2019	710	39	38	1097	18.4	27	1097	625	1075.10	9609
May 2019	710	26	43	973	15.8	32	973	606	1071.47	9317
Jun 2019	750	10	51	873	14.7	33	873	594	1069.15	9132
Jul 2019	850	77	63	834	13.6	36	834	593	1069.08	9126
Aug 2019	900	127	68	778	12.7	34	778	602	1070.82	9265

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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)
* Sep 2016	702	-18	18	711	0	711	11.9	640.34	1627
<b>WY 2016</b>	<b>9293</b>	<b>-195</b>	<b>198</b>	<b>8879</b>	<b>0</b>	<b>8879</b>			
H Oct 2016	518	-7	15	640	0	640	10.4	634.86	1482
I Nov 2016	751	-29	11	574	0	574	9.6	640.09	1620
S Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
T Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
O Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
R Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
I Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
C May 2017	917	-13	22	846	0	846	13.8	643.74	1719
A Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
L Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
* Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
Sep 2017	660	-11	18	715	0	715	12.0	639.51	1604
<b>WY 2017</b>	<b>8681</b>	<b>-184</b>	<b>199</b>	<b>8320</b>	<b>0</b>	<b>8320</b>			
Oct 2017	677	-4	15	724	0	724	11.8	637.00	1538
Nov 2017	654	-11	10	632	0	632	10.6	637.00	1538
Dec 2017	590	-10	9	526	0	526	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
<b>WY 2018</b>	<b>9497</b>	<b>-166</b>	<b>197</b>	<b>9119</b>	<b>0</b>	<b>9119</b>			
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
Aug 2019	778	-12	23	743	0	743	12.1	641.50	1658

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 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)
* Sep 2016	711	14	15	490	8.2	89	134	447.97	579	92	1.5
<b>WY 2016</b>	<b>8879</b>	<b>225</b>	<b>140</b>	<b>6360</b>		<b>1057</b>	<b>1467</b>			<b>1496</b>	
H Oct 2016	640	36	12	466	7.6	80	133	446.90	559	61	1.0
I Nov 2016	574	21	9	374	6.3	78	140	446.33	549	97	1.6
S Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
T Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
O Feb 2017	486	14	8	393	7.1	13	62	448.30	586	160	2.9
R Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
I Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
C May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
A Jun 2017	853	0	15	689	11.6	58	79	448.41	588	126	2.1
L Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
* Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
Sep 2017	715	20	15	534	9.0	56	136	447.50	571	89	1.5
<b>WY 2017</b>	<b>8320</b>	<b>226</b>	<b>140</b>	<b>6257</b>		<b>665</b>	<b>1408</b>			<b>1499</b>	
Oct 2017	724	28	12	496	8.1	115	131	447.00	561	69	1.1
Nov 2017	632	19	9	393	6.6	111	123	447.50	570	102	1.7
Dec 2017	526	19	7	316	5.1	115	122	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
<b>WY 2018</b>	<b>9119</b>	<b>220</b>	<b>139</b>	<b>6569</b>		<b>1022</b>	<b>1505</b>			<b>1461</b>	
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
Aug 2019	743	25	17	582	9.5	95	73	447.50	571	100	1.6

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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
*	Sep 2016	702	11.8	1075.23	9620	5	429.97	1539.0	266.3	100	379.1
	<b>WY 2016</b>	<b>9293</b>						<b>3596.9</b>			
H	Oct 2016	518	8.4	1076.34	9710	90	438.10	1335.0	195.2	87	377.1
I	Nov 2016	751	12.6	1076.55	9727	17	427.42	1072.0	290.6	80	386.7
S	Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
T	Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
O	Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
R	Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
I	Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
C	May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
A	Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
L	Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
*	Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
	Sep 2017	660	11.1	1081.73	10155	24	429.35	1581.0	252.7	100	382.6
	<b>WY 2017</b>	<b>8681</b>						<b>3369.1</b>			
	Oct 2017	677	11.0	1081.25	10115	-40	435.22	978.9	266.7	61	394.1
	Nov 2017	654	11.0	1081.05	10098	-16	436.34	884.0	259.5	56	397.0
	Dec 2017	590	9.6	1082.75	10240	142	436.94	829.0	234.5	52	397.2
	Jan 2018	712	11.6	1084.65	10400	160	436.53	929.0	284.4	58	399.2
	Feb 2018	609	11.0	1086.57	10563	163	435.56	1216.0	237.8	75	390.7
	Mar 2018	1036	16.9	1083.89	10336	-227	434.03	1314.0	408.9	82	394.5
	Apr 2018	1092	18.4	1079.18	9943	-393	429.98	1290.1	431.8	82	395.4
	May 2018	966	15.7	1075.57	9647	-296	424.49	1476.1	372.7	95	385.8
	Jun 2018	866	14.5	1073.48	9478	-169	421.42	1548.0	327.7	100	378.6
	Jul 2018	828	13.5	1073.59	9487	9	420.93	1548.0	317.3	100	383.4
	Aug 2018	770	12.5	1075.37	9631	145	422.03	1559.0	294.0	100	381.6
	Sep 2018	697	11.7	1075.32	9627	-4	423.37	1558.0	264.8	100	380.0
	<b>WY 2018</b>	<b>9497</b>						<b>3700.0</b>			
	Oct 2018	489	8.0	1077.10	9772	145	428.42	1263.0	189.5	81	387.5
	Nov 2018	632	10.6	1077.25	9784	12	431.66	1264.0	243.5	81	384.9
	Dec 2018	587	9.6	1078.77	9909	125	431.33	1168.0	227.2	74	386.9
	Jan 2019	716	11.7	1080.66	10066	157	432.64	904.9	284.0	57	396.3
	Feb 2019	610	11.0	1082.61	10228	162	430.92	1297.9	235.4	81	385.9
	Mar 2019	1042	16.9	1079.82	9996	-232	429.37	1392.7	405.0	88	388.8
	Apr 2019	1097	18.4	1075.10	9609	-387	425.36	1353.5	427.6	87	389.7
	May 2019	973	15.8	1071.47	9317	-292	419.87	1534.2	370.7	100	381.0
	Jun 2019	873	14.7	1069.15	9132	-185	417.25	1521.2	327.5	100	375.2
	Jul 2019	834	13.6	1069.08	9126	-6	416.55	1520.7	316.7	100	379.6
	Aug 2019	778	12.7	1070.82	9265	139	417.54	1530.4	294.0	100	378.0

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 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
* Sep 2016	711	11.9	640.34	1627	-45	138.91	255.0	90.5	100	127.3
<b>WY 2016</b>	<b>8879</b>							<b>1129.0</b>		
H Oct 2016	640	10.4	634.86	1482	-144	135.70	201.5	79.3	79	123.8
I Nov 2016	574	9.6	640.09	1620	138	140.91	170.9	71.1	67	123.8
S Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
T Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
O Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
R Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
I Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
C May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
A Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
L Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
* Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
Sep 2017	715	12.0	639.51	1604	-85	134.02	255.0	89.1	100	124.5
<b>WY 2017</b>	<b>8320</b>							<b>1067.2</b>		
Oct 2017	724	11.8	637.00	1538	-66	133.27	181.0	88.4	71	122.1
Nov 2017	632	10.6	637.00	1538	0	132.33	170.0	76.7	67	121.4
Dec 2017	526	8.6	638.71	1583	45	133.30	167.8	64.7	66	122.9
Jan 2018	601	9.8	641.80	1666	83	134.62	204.0	74.8	80	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
<b>WY 2018</b>	<b>9119</b>							<b>1133.1</b>		
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
Aug 2019	743	12.1	641.50	1658	0	134.46	255.0	92.8	100	124.9

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**September 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
* Sep 2016	490	8.2	447.97	579	-10	82.24	120.0	34.7	100	70.9
<b>WY 2016</b>	<b>6345</b>							<b>447.6</b>		
H Oct 2016	466	7.6	446.90	559	-20	78.88	93.6	32.8	78	70.5
I Nov 2016	374	6.3	446.33	549	-11	80.55	90.0	26.0	75	69.6
S Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
T Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
O Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
R Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
I Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
C May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
A Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
L Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
* Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
Sep 2017	534	9.0	447.50	571	-15	75.26	120.0	34.9	100	65.4
<b>WY 2017</b>	<b>6257</b>							<b>435.3</b>		
Oct 2017	496	8.1	447.00	561	-9	75.90	92.9	32.6	77	65.8
Nov 2017	393	6.6	447.50	570	9	75.69	97.0	25.5	81	65.0
Dec 2017	316	5.1	446.50	552	-19	74.40	120.0	19.9	100	63.0
Jan 2018	361	5.9	446.50	552	0	74.88	98.7	23.1	82	64.0
Feb 2018	482	8.7	446.50	552	0	75.04	95.4	31.5	79	65.4
Mar 2018	717	11.7	446.70	555	4	74.01	120.0	46.6	100	65.0
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
<b>WY 2018</b>	<b>6569</b>							<b>429.9</b>		
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
Aug 2019	582	9.5	447.50	571	-9	75.13	120.0	38.0	100	65.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 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
* Sep 2016	315	42	30	36	20	3
<b>Summer 2016</b>	<b>2111</b>	<b>276</b>	<b>166</b>	<b>218</b>	<b>116</b>	<b>34</b>
H Oct 2016	269	33	26	33	19	0
I Nov 2016	277	30	9	11	6	0
S Dec 2016	395	41	10	11	6	0
T Jan 2017	385	43	10	11	5	0
O Feb 2017	307	43	13	19	10	0
R Mar 2017	312	97	19	22	0	0
<b>Winter 2017</b>	<b>1945</b>	<b>289</b>	<b>87</b>	<b>107</b>	<b>46</b>	<b>0</b>
I Apr 2017	270	102	15	22	6	0
C May 2017	291	105	43	72	17	4
A Jun 2017	346	102	40	66	8	6
L Jul 2017	399	71	35	13	18	8
* Aug 2017	421	56	34	0	22	9
Sep 2017	279	53	35	40	19	6
<b>Summer 2017</b>	<b>2006</b>	<b>488</b>	<b>202</b>	<b>213</b>	<b>91</b>	<b>33</b>
Oct 2017	264	54	23	27	14	6
Nov 2017	264	53	22	27	14	6
Dec 2017	309	62	34	41	21	6
Jan 2018	358	63	22	28	15	6
Feb 2018	311	57	12	16	8	5
Mar 2018	330	39	13	17	9	6
<b>Winter 2018</b>	<b>1837</b>	<b>327</b>	<b>126</b>	<b>156</b>	<b>81</b>	<b>36</b>
Apr 2018	288	37	16	24	13	6
May 2018	290	64	42	60	23	7
Jun 2018	321	60	19	30	20	8
Jul 2018	366	36	31	37	20	10
Aug 2018	381	36	33	38	20	7
Sep 2018	283	35	28	33	17	7
<b>Summer 2018</b>	<b>1929</b>	<b>267</b>	<b>168</b>	<b>222</b>	<b>113</b>	<b>44</b>
Oct 2018	269	36	21	25	13	6
Nov 2018	269	35	19	23	12	6
Dec 2018	301	36	28	35	18	6
Jan 2019	358	36	11	15	8	6
Feb 2019	310	32	10	13	7	5
Mar 2019	330	36	11	15	8	6
<b>Winter 2019</b>	<b>1198</b>	<b>142</b>	<b>79</b>	<b>98</b>	<b>50</b>	<b>23</b>
Apr 2019	293	35	14	21	12	6
May 2019	296	58	46	65	23	6
Jun 2019	320	53	25	36	22	8
Jul 2019	368	36	31	38	21	9
Aug 2019	388	36	34	40	21	9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



September 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	MAF	
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Sep 2017	274	27	373	9370	10044	17246	27290	274	27	373	674	9370	17246	27290	2270	660	0	33.1
Oct 2017	351	82	386	9563	10381	17222	27603	351	82	386	819	9563	17222	27603	3040	677	0	32.8
Nov 2017	425	111	381	9624	10540	17262	27803	425	111	381	916	9624	17262	27803	3810	654	0	32.6
Dec 2017	495	150	377	9700	10722	17279	28001	495	150	377	1022	9700	17279	28001	4580	590	0	32.4
Jan 2018	609	233	378	9891	11111	17137	28248	609	233	378	1220	9891	17137	28248	5350	712	0	32.2
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2018	609	233	378	9891	11111	17137	28248	220	221	378	819	9891	17137	27848	5350	712	0	32.2
Feb 2018	717	279	380	10221	11596	16977	28573	328	268	380	976	10221	16977	28174	1500	609	0	32.0
Mar 2018	808	295	375	10469	11948	16814	28762	420	286	375	1081	10469	16814	28364	1500	1036	0	31.6
Apr 2018	799	302	345	10718	12165	17041	29206	406	294	345	1045	10718	17041	28805	1500	1092	0	31.4
May 2018	763	287	291	10680	12020	17434	29454	362	279	291	931	10680	17434	29045	1500	966	0	32.2
Jun 2018	720	240	141	9802	10903	17730	28633	311	221	141	673	9802	17730	28204	1500	866	0	33.7
Jul 2018	539	45	56	8613	9253	17899	27152	115	3	1	119	8613	17899	26632	1500	828	0	33.5
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2018	442	37	116	8774	9368	17890	27259	442	37	116	595	8774	17890	27259	1500	770	0	33.1
Sep 2018	469	79	177	9163	9888	17746	27634	469	79	177	725	9163	17746	27634	2270	697	0	32.7
Oct 2018	521	121	305	9300	10247	17750	27997	521	121	305	947	9300	17750	27997	3040	489	0	32.5
Nov 2018	568	147	307	9436	10458	17605	28063	568	147	307	1022	9436	17605	28063	3810	632	0	32.3
Dec 2018	616	176	314	9578	10684	17593	28277	616	176	314	1106	9578	17593	28277	4580	587	0	32.1
Jan 2019	680	244	325	9808	11058	17468	28526	680	244	325	1250	9808	17468	28526	5350	716	0	31.9
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2019	680	244	325	9808	11058	17468	28526	382	244	80	707	9808	17468	27983	5350	716	0	31.9
Feb 2019	740	257	338	10204	11539	17311	28850	440	257	93	790	10204	17311	28305	1500	610	0	31.7
Mar 2019	786	265	340	10495	11887	17149	29036	484	265	93	843	10495	17149	28487	1500	1042	0	31.4
Apr 2019	787	266	285	10696	12034	17381	29414	480	266	32	778	10696	17381	28854	1500	1097	0	31.3
May 2019	756	240	195	10569	11760	17768	29528	442	240	-82	600	10569	17768	28937	1500	973	0	32.5
Jun 2019	681	182	260	9182	10305	18060	28365	356	182	-56	482	9182	18060	27724	1500	873	0	34.0
Jul 2019	453	23	401	7724	8602	18245	26847	112	18	29	159	7724	18245	26128	1500	834	0	34.1
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2019	358	5	433	7648	8444	18251	26695	358	5	433	796	7648	18251	26695	1500	778	0	33.8

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