

**April 24-Month Study**  
**Date: April 17, 2017**

**From:** Water Resources Group, Salt Lake City  
**To:** All Colorado River Annual Operating Plan (AOP) Recipients

**Current Reservoir Status**

Reservoir	March Inflow (unregulated) (acre-feet)	Percent of Average (%)	April 16, Midnight Elevation (feet)	April 16, Midnight Reservoir Storage (acre-feet)
Fontenelle	180,000	343	6,476.25	148,000
Flaming Gorge	400,000	391	6,024.27	3,133,000
Blue Mesa	74,000	205	7,493.08	606,000
Navajo	177,000	185	6,073.79	1,534,000
Powell	1,109,000	167	3,599.67	11,718,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this April 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-foot (maf) release from Lake Powell in water year 2017, the April 2017 24-Month Study projects 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 1,075 feet. Therefore, in accordance with Section 6.B.4 of the Interim Guidelines, Lake Powell operations will shift 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 April 24-Month Study projects a balancing release of 9.0 maf in water year 2017; however, the actual release in water year 2017 will depend on hydrology in the remainder of water year and

will range from 8.23 to 9.0 maf. The projected release from Lake Powell in water year 2017 will be updated each month throughout the remainder of the water year.

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 Interim Guidelines are available for download at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The 2017 AOP is available for download at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP17.pdf>.

**Fontenelle Reservoir** – Fontenelle Reservoir is currently at elevation 6478 feet, which amounts to 46 percent of live storage capacity. Inflows for the month of March totaled 180,360 acre-feet (af), or 343 percent of average. Significantly above average inflows are forecasted over the next few months and releases have been adjusted to meet the spring elevation target. Releases have been set to 5,000 cubic feet per second (cfs) and are anticipated to remain steady until inflows into the reservoir increase.

The Colorado Basin River Forecast Center has forecasted spring inflows that are significantly above average. April, May, and June forecasted inflow volumes amount to 240,000 af (280 percent of average), 390,000 af (238 percent of average), and 650,000 af (214 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., April 19, 2017. The meeting will be held at Seedskaadee Wildlife Refuge Headquarters, Wyoming. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

**Flaming Gorge Reservoir** – Releases are currently at full power plant capacity (~4,600 cfs) and full bypass capacity (4,000 cfs) for a total release of ~8,600 cfs, and are expected to remain at this level through June.

Unregulated inflow into Flaming Gorge Reservoir during the month of March was 400,000 af, or 392 percent of average, and constitutes the new record inflow for the historic period of record. The reservoir elevation is 6,024.7 (84 percent of live capacity) and decreasing.

The April final forecast for inflows for the next three months projects above average conditions: April, May and June forecasted inflow volumes at 430,000 af (322 percent of average), 615,000 af (251 percent of average), and 750,000 af (192 percent of average), respectively.

The April water supply forecast of the April through July unregulated inflow volume into Flaming Gorge Reservoir is 2.26 million acre-feet (231 percent of average). Current

snowpack is 164 percent of median and we have received 159 percent of the season peak for the Upper Green Basin with additional storm systems anticipated.

The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stakeholders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. Meeting notes from past Working Group meetings are posted on the Working Group webpage. For more information on this group and these meetings please contact Dale Hamilton at 801-379-1186 or Heather Patno at 801-524-3883.

Reclamation will be holding the Flaming Gorge Working Group meeting on Thursday, April 20, 2017, at 10:00 a.m. at the Utah Division of Wildlife Resources offices located at 318 North Vernal Avenue, Vernal, Utah.

**Aspinall Unit Reservoirs** – Crystal Dam is currently releasing 1,300 cfs and the Uncompahgre Valley Water Users Association has started diverting water through the Gunnison Tunnel. Currently, tunnel diversions are approximately 700 cfs and the flows in the Black Canyon are approximately 600 cfs. The March unregulated inflow to Blue Mesa Reservoir was 74,000 af (205 percent of average). The end of February reservoir elevation for Blue Mesa was 7,488.71 feet with live storage in Blue Mesa measuring approximately 571,400 af (69 percent full).

For the Gunnison River Basin, the first half of March was very dry and warm resulting in decreased snowpack levels. However, conditions improved during the second half of March and the snowpack nearly recovered to the level it was at the beginning of March. On April 1, 2017 the snowpack above Crystal Reservoir measured 123 percent of median. As of the timing of this update (April 17, 2017) the melting of the snowpack has begun and currently measures 108 percent of median for this date.

Unregulated Inflows to Blue Mesa for the next three months (April, May and June) are projected to be: 130,000 af (168 percent of average), 305,000 af (138 percent of average) and 365,000 af (140 percent of average), respectively. The April through July unregulated inflow forecast decreased from 970,000 af (144 percent of average) for March to 930,000 af (138 percent of average) for April. The April 24-Month Study is reflective of this new forecast.

The Aspinall Unit Working Group is an open public forum for information exchange between Reclamation and the stakeholders of the Aspinall Unit. The public is encouraged to attend and comments on the operations and plans presented by Reclamation at these meetings. Meeting notes from past working Group meetings are posted on the Working Group webpage. For more information on this group and these meetings please contact Erik Knight in the Grand Junction Area Office at (970) 248-0629.

The next meeting of the Aspinall Unit Working Group will be held on Thursday, April 27<sup>th</sup>, 2017 at 1:00 pm at the Western Colorado Area Office located at 445 West Gunnison Avenue in Grand Junction, Colorado.

**Navajo Reservoir** – As of April 6, 2017, Navajo reservoir elevation is 6070.6 feet (1.489 maf live storage) and is releasing 500 cfs. Releases are made for the authorized purposes of the Navajo Unit, and pursuant to the 2006 Record of Decision, in an attempt to maintain a target base flow through the endangered fish critical habitat reach of the San Juan River (Farmington to Lake Powell). The San Juan River Basin Recovery Implementation Program (SJRIP) recommends a target base flow of between 500 cfs and 1,000 cfs through the critical habitat area. The target base flow is calculated as the weekly average of gaged flows throughout the critical habitat area.

Modified unregulated inflow into Navajo for March was 176,809 af, which was 191percent of average for the month. Releases averaged 500 cfs and totaled 29,913 af.

The most probable modified-unregulated inflow forecast for April at Navajo is 200,000 af (119 percent of average), for May is 270,000 af (97 percent of average), and for June is 240,000 af (107 percent of average).

Under the current Most Probable April-July inflow forecast of 760,000 af (103 percent of average), Navajo has enough available water for a spring peak release of 40 days at 5,000 cfs. The ramp-up lasting 2-3 weeks will most likely begin between April 26th and May 3rd. The date will be finalized in the coming weeks. The start date is an estimate and will be entirely dependent on spring temperatures and the runoff timing of the Animas River, as Navajo releases are timed to match the peak on the Animas. Navajo reservoir elevation is currently expected to peak at 6077 feet in late April just before the spring peak release begins.

Reclamation conducts Public Operations Meetings three times per year to gather input for determining upcoming operations for Navajo Reservoir. Input from individuals, organizations, and agencies along with other factors such as weather, water rights, endangered species requirements, flood control, hydro power, recreation, fish and wildlife management, and reservoir levels, will be considered in the development of these reservoir operation plans. In addition, the meetings are used to coordinate activities and exchange information among agencies, water users, and other interested parties concerning the San Juan River and Navajo Reservoir.

The next Navajo Public Operations Coordination Meeting is scheduled for April 25, 2017, at 1p.m. at the Farmington Civic Center, Farmington, NM.

### ***Glen Canyon Dam / Lake Powell***

#### **Current Status**

The unregulated inflow volume to Lake Powell in March was 1,110 thousand acre-feet (kaf) (167 percent of average). The release volume from Glen Canyon Dam in March was 720 kaf. The end of March elevation and storage of Lake Powell were 3,596 feet

(104 feet from full pool) and 11.4 maf (47 percent of full capacity), respectively. The reservoir reached a seasonal low elevation on March 15<sup>th</sup> near elevation 3593.85 feet. Since that time the reservoir has been increasing as the first of the spring runoff is now entering the reservoir. The current snowpack above Lake Powell is 119 percent of median.

### **Current Operations**

The operating tier for water year 2017 was established in August 2016 as the Upper Elevation Balancing Tier. In the Upper Elevation Balancing Tier the initial water year release volume is 8.23 maf; however, there is the possibility for an April adjustment to equalization or balancing operations to govern for the remainder of the water year. This April 2017 24-Month Study establishes that Lake Powell operations will shift to “balancing releases” for the remainder of water year 2017. Under Balancing, 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 April 24-Month Study projects a balancing release of 9.0 maf in water year 2017; the actual release in water year 2017, however, will depend on hydrology in the remainder of water year and will range from 8.23 to 9.0 maf. The projected release from Lake Powell in water year 2017 will be updated each month throughout the remainder of the water year. Reclamation will schedule operations at Glen Canyon Dam to achieve as practicably as possible the appropriate total annual release volume by September 30, 2017.

In April, the release volume will be approximately 620 kaf, with fluctuations anticipated between about 7,500 cfs in the nighttime to about 13,500 cfs in the daytime and consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The anticipated release volume for May is 650 kaf with daily fluctuations between approximately 8,000 cfs and 14,000 cfs. The expected release for June is 750 kaf with daily fluctuations between approximately 9,000 cfs and 17,000 cfs.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 megawatts (MW) of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of up to about 1,200 cfs above or below the hourly scheduled release rate. Under system normal conditions, fluctuations for regulation are typically short lived and generally balance out over the hour with minimal or no noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled releases when called upon to respond to unscheduled power outages or power system emergencies. Depending on the severity of the system emergency, the response from Glen Canyon Dam can be significant, within the full range of the operating capacity of the power plant for as long as is necessary to maintain balance in the transmission system. Glen Canyon Dam currently maintains 27 MW (approximately 800 cfs) of generation capacity in reserve in order to respond to a system emergency even when generation rates are already high. System emergencies occur fairly infrequently and typically require small responses

from Glen Canyon Dam. However, these responses can have a noticeable impact on the river downstream of Glen Canyon Dam.

### **Inflow Forecasts and Model Projections**

The April to July 2017 water supply forecast for unregulated inflow to Lake Powell, issued on April 4, 2017, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume will be 9.3 maf (130 percent of average based on the period 1981-2010). The projected water year 2017 inflow is 13.5 maf (124 percent of average). At this early point in the season, there is still significant uncertainty regarding this year's water supply. The April-July forecast ranges from a minimum probable of 7.5 maf (105 percent of average) to a maximum probable of 12.0 maf (168 percent of average). There is a 10 percent chance that inflows could be higher than the current maximum probable forecast and a 10 percent chance that inflows could be lower than the minimum probable forecast.

As determined in the August 2016 24-Month Study, and documented in the 2017 Annual Operating Plan, Lake Powell's operations in water year 2017 will be governed by the Upper Elevation Balancing Tier. In this tier, the initial water year release volume is 8.23 maf, however, there is the potential for an April adjustment to equalization or balancing releases in April 2017. This April 2017 24-Month Study projects 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 elevation 1,075 feet. Therefore, in accordance with Section 6.B.4 of the 2007 Interim Guidelines, Lake Powell operations will shift 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 April most probable inflow forecast, the annual release volume from Lake Powell during water year 2017 is projected to be 9.0 maf. Under the minimum probable inflow scenario, the water year release is projected to be 9.0 maf. Under the maximum probable inflow scenario, the release is projected to be 9.0 maf. There 10 percent chance that inflows will be lower than the current minimum probable forecast, potentially resulting in lower releases. If inflows are less than the minimum probable forecast, the water year 2017 annual release could be as low as 8.23 maf. If inflows are greater than the current forecasted maximum probable inflow, the annual release will be 9.0 maf. The projected release from Lake Powell in water year 2017 will be updated each month throughout the remainder of the water year.

Based on the current forecast, the April 24-Month Study projects Lake Powell elevation will end water year 2017 near 3,641 feet with approximately 16.12 maf in storage (66 percent of capacity). Projections of elevation and storage still have significant uncertainty at this point in the season, primarily due to uncertainty regarding spring runoff and the resulting inflow to Lake Powell. Under the minimum probable inflow scenario, updated in April, the projected end of water year elevation and storage are 3,625 feet and 14.25 maf (59 percent of capacity), respectively. Under the maximum probable inflow scenario, updated in April, the projected end of water year elevation and storage are 3661 feet and 18.62 maf (77 percent of capacity), respectively. Modeling of

projected reservoir operations based on the minimum and maximum scenarios will be updated again in August.

### **Upper Colorado River Basin Hydrology**

The Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. During the 17-year period 2000 to 2016, however, the unregulated inflow to Lake Powell, which is a good measure of hydrologic conditions in the Colorado River Basin, was above average in only 3 out of the past 17 years. The period 2000-2016 is the lowest 17-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.57 maf, or 79 percent of the 30-year average (1981-2010). (For comparison, the 1981-2010 total water year average is 10.83 maf.) The unregulated inflow during the 2000-2016 period has ranged from a low of 2.64 maf (24% of average) in water year 2002 to a high of 15.97 maf (147 percent of average) in water year 2011. In water year 2016 unregulated inflow volume to Lake Powell was 9.62 maf (89 percent of average), which, though still below average, was significantly higher than inflows observed in 2012 and 2013 (45 and 47 percent of average, respectively). Under the current most probable forecast, the total water year 2017 unregulated inflow to Lake Powell is projected to be 13.47 maf (124 percent of average).

At the beginning of water year 2017, total system storage in the Colorado River Basin was 30.2 maf (51 percent of the 59.6 maf total system capacity). This is nearly the same as the total storage at the beginning of water years 2015 and 2016 which began at 30.1 maf and 30.3 maf, respectively, both of which were 51 percent of capacity. Since the beginning of water year 2000, total Colorado Basin storage has experienced year to year increases and decreases in response to wet and dry hydrology, ranging from a high of 94 percent of capacity at the beginning of 2000 to a low of 50 percent of capacity at the beginning of water year 2005. One wet year can significantly increase total system reservoir storage, just as persistent dry years can draw down the system storage. Based on current inflow forecasts, the current projected end of water year total Colorado Basin reservoir storage for water year 2017 is approximately 34.3 maf (58 percent of total system capacity). The actual end of water year 2017 system storage may vary from this projection, primarily due to uncertainty regarding the season's snowpack and resulting runoff and reservoir inflow. Based on the January minimum and maximum probable inflow forecasts and modeling, the range of end of water year 2017 total system capacity is approximately 32.43 maf (54 percent of capacity) to 37.0 maf (62 percent of capacity), respectively.

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION  
 WATER RESOURCES GROUP  
 ATTENTION UC-430  
 125 SOUTH STATE STREET, ROOM 6107  
 SALT LAKE CITY, UT 84138-5571  
 PHONE 801-524-3709

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 RUNOFF AND INFLOW PROJECTIONS INTO UPPER BASIN RESERVOIRS ARE PROVIDED BY  
 THE COLORADO RIVER FORECASTING SERVICE THROUGH THE NATIONAL WEATHER SERVICES'S  
 COLORADO BASIN RIVER FORECAST CENTER AND ARE AS FOLLOWS

:	Obs						Forecast		Outlook	
	dec	jan	feb	mar	apr	may	jun	apr-jul	%Avg	
GLDA3:Lake Powell	300	359	555	1110	1600/	3000/	3350/	9300/	130%	
GBRW4:Fontenelle	37	45	51	180	240/	390/	650/	1680/	232%	
GRNU1:Flaming Gorge	35	49	106	400	430/	615/	750/	2260/	231%	
BMDC2:Blue Mesa	26	29	28	70	130/	305/	365/	930/	138%	
MPSC2:Morrow Point	27	30	29	74	147/	340/	395/	1015/	137%	
CLSC2:Crystal	31	35	34	81	165/	385/	445/	1140/	137%	
TPIC2:Taylor Park	4.9	5.5	4.2	5.7	9/	37/	51/	118/	119%	
VCRC2:Vallecito	5.7	6.8	7.3	24	29/	75/	79/	210/	108%	
NVRN5:Navajo	26	35	55	177	200/	270/	240/	760/	103%	
LEMFC2:Lemon	0.96	1.06	1.14	4.1	6/	24/	22/	57/	104%	
MPHC2:McPhee	4.0	5.1	8.4	57	122/	167/	108/	420/	142%	
RBSC2:Ridgway	4.5	4.5	4.5	7.8	13/	31/	49/	118/	117%	

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	91	1	56	0	56	6481.34	174
H May 2016	186	2	86	20	106	6493.63	252
I Jun 2016	293	2	101	143	243	6500.14	299
S Jul 2016	80	3	73	3	76	6500.25	300
T Aug 2016	29	2	65	0	65	6495.03	262
O 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>		
R Oct 2016	57	1	0	57	57	6490.08	228
I Nov 2016	62	1	0	59	59	6490.44	230
C Dec 2016	37	1	0	63	63	6486.33	203
A Jan 2017	45	1	0	63	63	6483.20	184
L Feb 2017	51	1	0	57	57	6482.06	178
* Mar 2017	180	1	0	150	150	6486.90	207
Apr 2017	240	1	98	215	312	6473.54	135
May 2017	390	1	96	319	415	6467.47	109
Jun 2017	650	2	98	386	484	6496.45	273
Jul 2017	400	3	103	227	330	6505.31	340
Aug 2017	145	2	103	109	212	6496.26	271
Sep 2017	85	2	70	0	70	6498.09	285
<b>WY 2017</b>	<b>2342</b>	<b>15</b>	<b>567</b>	<b>1705</b>	<b>2272</b>		
Oct 2017	76	1	72	0	72	6498.48	288
Nov 2017	54	1	70	0	70	6496.21	271
Dec 2017	32	1	72	0	72	6490.26	230
Jan 2018	30	1	72	0	72	6483.61	187
Feb 2018	28	1	65	0	65	6476.60	149
Mar 2018	53	0	73	0	73	6472.08	128
Apr 2018	85	1	93	8	101	6468.29	112
May 2018	164	1	96	45	141	6473.38	134
Jun 2018	299	2	100	49	149	6497.79	282
Jul 2018	178	3	102	16	118	6505.21	339
Aug 2018	77	2	100	4	105	6501.33	309
Sep 2018	46	2	67	0	67	6498.25	286
<b>WY 2018</b>	<b>1121</b>	<b>15</b>	<b>984</b>	<b>122</b>	<b>1105</b>		
Oct 2018	49	1	69	0	69	6495.21	264
Nov 2018	42	1	67	0	67	6491.50	238
Dec 2018	32	1	69	0	69	6485.64	200
Jan 2019	30	1	69	0	69	6478.74	160
Feb 2019	28	0	63	0	63	6471.26	125
Mar 2019	53	0	65	0	65	6468.22	112

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	140	105	5	50	0	50	129	6026.43	3213	316
H May 2016	362	282	8	52	0	52	138	6032.01	3427	701
I Jun 2016	455	405	11	270	198	469	135	6030.17	3356	965
S Jul 2016	91	88	13	116	4	120	133	6029.03	3312	220
T Aug 2016	28	64	13	110	0	110	131	6027.55	3255	133
O 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>
R 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
C Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
A Jan 2017	49	67	2	110	0	110	124	6023.01	3087	155
L Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
* Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
Apr 2017	430	502	5	281	231	512	127	6024.88	3156	707
May 2017	615	640	8	291	238	529	131	6027.55	3255	944
Jun 2017	750	584	10	282	229	512	133	6029.11	3315	882
Jul 2017	465	395	14	175	0	175	141	6034.18	3513	245
Aug 2017	175	242	13	142	0	142	145	6036.23	3596	162
Sep 2017	100	85	12	137	0	137	142	6034.70	3534	152
<b>WY 2017</b>	<b>3267</b>	<b>3198</b>	<b>82</b>	<b>2052</b>	<b>724</b>	<b>2776</b>				<b>4211</b>
Oct 2017	91	87	8	142	0	142	140	6033.20	3474	170
Nov 2017	65	81	4	137	0	137	137	6031.73	3416	167
Dec 2017	35	75	2	142	0	142	135	6030.03	3350	167
Jan 2018	40	82	2	142	0	142	132	6028.49	3291	167
Feb 2018	45	82	2	128	0	128	131	6027.26	3245	156
Mar 2018	102	123	3	142	0	142	130	6026.70	3223	219
Apr 2018	134	149	5	137	0	137	130	6026.87	3230	353
May 2018	245	222	8	191	0	191	131	6027.46	3252	723
Jun 2018	390	239	10	187	0	187	132	6028.51	3292	608
Jul 2018	210	151	14	98	0	98	134	6029.48	3329	198
Aug 2018	89	117	13	98	0	98	134	6029.62	3334	124
Sep 2018	55	76	11	95	0	95	133	6028.87	3305	114
<b>WY 2018</b>	<b>1500</b>	<b>1485</b>	<b>80</b>	<b>1642</b>	<b>0</b>	<b>1642</b>				<b>3166</b>
Oct 2018	59	80	7	98	0	98	132	6028.21	3281	131
Nov 2018	51	76	3	95	0	95	131	6027.65	3259	127
Dec 2018	35	72	2	98	0	98	130	6026.94	3232	124
Jan 2019	40	80	2	98	0	98	129	6026.41	3213	123
Feb 2019	45	80	2	89	0	89	129	6026.12	3202	117
Mar 2019	102	115	3	98	0	98	129	6026.46	3214	175

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2017 24-Month Study  
 Most Probable Inflow\*  
 Taylor Park Reservoir



	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Apr 2016	9	6	9310.70	71
H May 2016	17	11	9314.16	77
I Jun 2016	41	20	9325.34	97
S Jul 2016	11	21	9320.04	87
T Aug 2016	9	16	9315.75	79
O Sep 2016	6	14	9310.77	71
<b>WY 2016</b>	<b>125</b>	<b>125</b>		
R Oct 2016	5	6	9310.23	70
I Nov 2016	4	5	9309.76	70
C Dec 2016	5	5	9309.56	69
A Jan 2017	6	5	9309.76	70
L Feb 2017	4	5	9309.43	69
* Mar 2017	6	6	9309.23	69
Apr 2017	9	11	9308.20	67
May 2017	37	22	9317.39	82
Jun 2017	51	31	9327.94	102
Jul 2017	21	28	9324.57	95
Aug 2017	11	22	9318.91	85
Sep 2017	8	21	9311.61	72
<b>WY 2017</b>	<b>167</b>	<b>166</b>		
Oct 2017	7	8	9311.26	72
Nov 2017	5	6	9310.80	71
Dec 2017	5	6	9309.98	70
Jan 2018	4	6	9308.93	68
Feb 2018	4	6	9307.51	66
Mar 2018	4	6	9306.48	64
Apr 2018	9	6	9308.29	67
May 2018	28	20	9313.43	75
Jun 2018	42	22	9324.42	95
Jul 2018	20	22	9323.45	93
Aug 2018	10	20	9318.17	84
Sep 2018	7	16	9313.15	75
<b>WY 2018</b>	<b>146</b>	<b>144</b>		
Oct 2018	7	8	9312.34	74
Nov 2018	5	6	9311.80	73
Dec 2018	5	6	9310.98	71
Jan 2019	4	6	9309.95	70
Feb 2019	4	6	9308.55	68
Mar 2019	4	6	9307.54	66

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	75	72	1	63	0	63	7488.62	571
H May 2016	161	155	1	134	19	153	7488.74	572
I Jun 2016	285	265	1	46	0	46	7514.84	788
S Jul 2016	81	91	2	112	0	112	7512.31	766
T Aug 2016	57	65	1	110	0	110	7506.94	720
O 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>		
R Oct 2016	32	33	1	90	0	90	7493.44	608
I Nov 2016	26	27	0	33	0	33	7492.53	601
C Dec 2016	26	26	0	35	0	35	7491.43	593
A Jan 2017	29	28	0	34	0	34	7490.68	587
L Feb 2017	28	29	0	44	1	44	7488.71	571
* Mar 2017	70	70	0	69	0	70	7488.71	571
Apr 2017	130	132	1	56	0	56	7498.17	646
May 2017	305	290	1	208	110	318	7494.51	617
Jun 2017	365	345	1	150	0	150	7517.25	810
Jul 2017	130	137	2	130	0	130	7517.79	815
Aug 2017	68	79	1	108	0	108	7514.39	784
Sep 2017	51	64	1	101	0	101	7510.00	746
<b>WY 2017</b>	<b>1250</b>	<b>1259</b>	<b>9</b>	<b>1059</b>	<b>111</b>	<b>1169</b>		
Oct 2017	47	48	1	71	0	71	7507.27	722
Nov 2017	35	35	0	66	0	66	7503.67	692
Dec 2017	26	27	0	138	0	138	7489.94	581
Jan 2018	24	26	0	55	0	55	7486.20	552
Feb 2018	22	25	0	38	0	38	7484.40	539
Mar 2018	36	38	0	44	0	44	7483.51	532
Apr 2018	77	74	1	54	0	54	7486.14	552
May 2018	221	213	1	139	0	139	7495.43	624
Jun 2018	261	241	1	66	0	66	7515.96	799
Jul 2018	117	119	2	105	0	105	7517.28	810
Aug 2018	63	73	1	127	0	127	7511.12	756
Sep 2018	38	47	1	117	0	117	7502.79	684
<b>WY 2018</b>	<b>968</b>	<b>965</b>	<b>9</b>	<b>1018</b>	<b>0</b>	<b>1018</b>		
Oct 2018	38	40	1	74	0	74	7498.59	650
Nov 2018	31	32	0	49	0	49	7496.49	633
Dec 2018	26	27	0	76	0	76	7490.28	584
Jan 2019	24	26	0	55	0	55	7486.55	555
Feb 2019	22	25	0	44	0	44	7484.01	536
Mar 2019	36	38	0	45	0	45	7482.96	528

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	83	63	7	71	71	0	71	7152.57	111
H May 2016	176	153	15	168	176	4	180	7136.53	99
I Jun 2016	302	46	18	64	52	0	52	7152.31	111
S Jul 2016	83	112	2	114	113	0	113	7153.43	112
T Aug 2016	58	110	1	111	111	0	111	7153.88	112
O 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>		
R 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
C Dec 2016	27	35	1	36	34	0	34	7150.44	109
A Jan 2017	30	34	2	36	33	0	33	7153.75	112
L Feb 2017	29	44	1	45	55	0	55	7140.48	102
* Mar 2017	74	70	5	74	64	0	68	7148.96	108
Apr 2017	147	56	17	73	69	0	69	7153.73	112
May 2017	340	318	35	353	306	47	353	7153.73	112
Jun 2017	395	150	30	180	180	0	180	7153.73	112
Jul 2017	133	130	3	133	133	0	133	7153.73	112
Aug 2017	72	108	4	112	112	0	112	7153.73	112
Sep 2017	55	101	4	105	105	0	105	7153.73	112
<b>WY 2017</b>	<b>1364</b>	<b>1169</b>	<b>104</b>	<b>1274</b>	<b>1217</b>	<b>47</b>	<b>1271</b>		
Oct 2017	50	71	3	74	74	0	74	7153.73	112
Nov 2017	37	66	3	68	68	0	68	7153.73	112
Dec 2017	28	138	2	140	140	0	140	7153.73	112
Jan 2018	27	55	2	57	57	0	57	7153.73	112
Feb 2018	25	38	3	40	40	0	40	7153.73	112
Mar 2018	40	44	4	48	48	0	48	7153.73	112
Apr 2018	88	54	11	65	65	0	65	7153.73	112
May 2018	247	139	26	165	165	0	165	7153.73	112
Jun 2018	281	66	20	86	86	0	86	7153.73	112
Jul 2018	123	105	6	112	112	0	112	7153.73	112
Aug 2018	67	127	3	130	130	0	130	7153.73	112
Sep 2018	41	117	3	119	119	0	119	7153.73	112
<b>WY 2018</b>	<b>1054</b>	<b>1018</b>	<b>86</b>	<b>1104</b>	<b>1104</b>	<b>0</b>	<b>1104</b>		
Oct 2018	41	74	3	76	76	0	76	7153.73	112
Nov 2018	33	49	2	51	51	0	51	7153.73	112
Dec 2018	28	76	2	78	78	0	78	7153.73	112
Jan 2019	27	55	2	57	57	0	57	7153.73	112
Feb 2019	25	44	3	46	46	0	46	7153.73	112
Mar 2019	40	45	4	49	49	0	49	7153.73	112

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	92	71	9	80	80	0	80	6751.41	16	47	36
H May 2016	194	180	18	198	109	64	197	6753.13	17	51	154
I Jun 2016	344	52	41	93	74	20	93	6752.00	17	43	53
S Jul 2016	89	113	6	119	117	2	119	6750.04	16	64	58
T Aug 2016	62	111	4	114	114	0	114	6749.30	16	62	53
O Sep 2016	42	103	3	106	106	1	107	6747.05	15	59	47
<b>WY 2016</b>	<b>1034</b>	<b>978</b>	<b>103</b>	<b>1081</b>	<b>811</b>	<b>243</b>	<b>1080</b>			<b>384</b>	<b>724</b>
R 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
C Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
A Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
L Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
* Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	66
Apr 2017	165	69	18	87	87	0	87	6753.04	17	30	57
May 2017	385	353	45	398	134	264	398	6753.04	17	55	343
Jun 2017	445	180	50	230	130	101	230	6753.04	17	60	170
Jul 2017	145	133	12	145	134	11	145	6753.04	17	65	80
Aug 2017	80	112	8	120	120	0	120	6753.04	17	65	55
Sep 2017	66	105	11	116	116	0	116	6753.04	17	55	61
<b>WY 2017</b>	<b>1534</b>	<b>1271</b>	<b>170</b>	<b>1440</b>	<b>982</b>	<b>456</b>	<b>1438</b>			<b>398</b>	<b>1042</b>
Oct 2017	60	74	9	83	83	0	83	6753.04	17	30	53
Nov 2017	43	68	6	74	74	0	74	6753.04	17	0	74
Dec 2017	32	140	5	145	134	10	145	6753.04	17	0	145
Jan 2018	31	57	5	61	61	0	61	6753.04	17	0	61
Feb 2018	29	40	4	44	44	0	44	6753.04	17	0	44
Mar 2018	46	48	6	54	54	0	54	6753.04	17	5	49
Apr 2018	101	65	12	77	77	0	77	6753.04	17	30	47
May 2018	281	165	34	199	134	65	199	6753.04	17	55	144
Jun 2018	315	86	34	119	119	0	119	6753.04	17	60	59
Jul 2018	138	112	14	126	126	0	126	6753.04	17	65	61
Aug 2018	75	130	8	138	134	4	138	6753.04	17	65	73
Sep 2018	47	119	6	126	126	0	126	6753.04	17	55	71
<b>WY 2018</b>	<b>1198</b>	<b>1104</b>	<b>144</b>	<b>1248</b>	<b>1169</b>	<b>80</b>	<b>1248</b>			<b>365</b>	<b>883</b>
Oct 2018	47	76	6	82	82	0	82	6753.04	17	30	52
Nov 2018	38	51	5	56	56	0	56	6753.04	17	0	56
Dec 2018	32	78	5	83	83	0	83	6753.04	17	0	83
Jan 2019	31	57	5	61	61	0	61	6753.04	17	0	61
Feb 2019	29	46	4	50	50	0	50	6753.04	17	0	50
Mar 2019	46	49	6	55	55	0	55	6753.04	17	5	50

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	25	13	7657.23	105
H May 2016	60	44	7663.23	121
I Jun 2016	77	73	7664.30	124
S Jul 2016	17	38	7656.15	102
T Aug 2016	15	33	7648.82	84
O Sep 2016	14	27	7643.21	71
<b>WY 2016</b>	<b>269</b>	<b>270</b>		
R Oct 2016	11	8	7644.63	74
I Nov 2016	6	2	7646.51	79
C Dec 2016	6	2	7647.98	82
A Jan 2017	7	5	7648.89	84
L Feb 2017	7	15	7645.42	76
* Mar 2017	24	24	7645.75	77
Apr 2017	29	28	7646.23	78
May 2017	75	38	7661.10	115
Jun 2017	79	74	7662.82	120
Jul 2017	27	42	7657.02	104
Aug 2017	18	38	7648.81	84
Sep 2017	16	30	7642.72	70
<b>WY 2017</b>	<b>306</b>	<b>304</b>		
Oct 2017	15	17	7641.52	68
Nov 2017	9	2	7644.51	74
Dec 2017	6	2	7646.45	79
Jan 2018	5	2	7647.94	82
Feb 2018	5	2	7649.20	85
Mar 2018	9	2	7651.91	92
Apr 2018	23	2	7660.27	113
May 2018	71	62	7663.61	122
Jun 2018	70	70	7663.48	121
Jul 2018	29	42	7658.46	108
Aug 2018	20	38	7651.09	90
Sep 2018	17	30	7645.81	77
<b>WY 2018</b>	<b>280</b>	<b>269</b>		
Oct 2018	16	17	7645.03	75
Nov 2018	9	2	7648.01	82
Dec 2018	6	2	7649.87	87
Jan 2019	5	2	7651.31	90
Feb 2019	5	2	7652.52	93
Mar 2019	9	2	7655.15	100

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2017 24-Month Study

Most Probable Inflow\*  
Navajo Reservoir



Date	Mod Unreg Inflow (1000 Ac-Ft)	Aztec Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
* Apr 2016	119	14	94	3	19	22	6070.75	1491	49
H May 2016	209	28	165	4	12	91	6074.87	1549	158
I Jun 2016	214	35	174	5	25	250	6067.29	1443	387
S Jul 2016	24	4	40	5	37	79	6061.29	1364	105
T Aug 2016	30	4	45	4	33	35	6059.16	1337	56
O Sep 2016	21	1	33	3	27	30	6056.98	1310	41
<b>WY 2016</b>	<b>864</b>	<b>96</b>	<b>769</b>	<b>29</b>	<b>169</b>	<b>653</b>			<b>1066</b>
R 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
C Dec 2016	25	0	22	1	0	20	6055.92	1297	39
A Jan 2017	34	0	31	1	0	22	6056.65	1306	38
L Feb 2017	55	1	62	1	1	26	6059.31	1339	48
* Mar 2017	177	18	159	2	6	30	6068.54	1460	89
Apr 2017	200	18	181	3	16	31	6077.81	1592	98
May 2017	270	47	186	4	28	274	6069.41	1472	437
Jun 2017	240	41	194	4	42	289	6058.68	1331	462
Jul 2017	50	8	57	4	45	59	6054.46	1279	121
Aug 2017	31	2	49	3	38	41	6051.72	1246	79
Sep 2017	33	1	46	3	21	36	6050.57	1232	66
<b>WY 2017</b>	<b>1166</b>	<b>135</b>	<b>1030</b>	<b>28</b>	<b>204</b>	<b>876</b>			<b>1566</b>
Oct 2017	40	2	40	2	8	22	6051.36	1242	48
Nov 2017	31	1	23	1	0	21	6051.51	1243	39
Dec 2017	25	0	20	1	0	22	6051.39	1242	37
Jan 2018	22	0	18	1	0	31	6050.29	1229	44
Feb 2018	30	0	27	1	0	28	6050.16	1227	40
Mar 2018	92	3	83	2	5	31	6053.97	1273	53
Apr 2018	170	16	133	2	21	30	6060.42	1353	82
May 2018	277	38	230	4	35	183	6061.08	1362	329
Jun 2018	224	31	192	4	51	230	6053.61	1269	382
Jul 2018	66	6	73	4	56	26	6052.49	1255	94
Aug 2018	45	1	62	3	47	36	6050.46	1231	74
Sep 2018	43	1	55	3	26	31	6050.01	1226	64
<b>WY 2018</b>	<b>1065</b>	<b>98</b>	<b>957</b>	<b>26</b>	<b>248</b>	<b>689</b>			<b>1285</b>
Oct 2018	47	2	47	2	10	31	6050.42	1230	59
Nov 2018	34	1	26	1	0	30	6050.01	1226	48
Dec 2018	25	0	20	1	0	31	6049.09	1215	46
Jan 2019	22	0	18	1	0	31	6047.97	1202	44
Feb 2019	30	0	27	1	0	28	6047.84	1200	40
Mar 2019	92	2	83	1	5	31	6051.73	1246	53

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2017 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 Gauge (1000 Ac-Ft)
* Apr 2016	814	681	22	665	0	665	3592.12	4935	11014	681
H May 2016	2294	1925	26	700	0	700	3603.87	5024	12123	709
I Jun 2016	2907	2618	46	800	0	800	3620.01	5155	13764	807
S Jul 2016	595	804	58	950	0	950	3618.22	5140	13576	963
T Aug 2016	253	432	56	900	0	900	3613.55	5101	13091	914
O 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>
R 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
C Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
A Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
L Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
* Mar 2017	1110	893	14	720	0	720	3595.91	4963	11364	730
Apr 2017	1600	1468	23	620	0	620	3603.92	5024	12128	628
May 2017	3000	3006	30	650	0	650	3624.82	5196	14281	656
Jun 2017	3350	3029	53	750	0	750	3642.85	5361	16343	756
Jul 2017	1350	1122	68	850	0	850	3644.43	5376	16532	865
Aug 2017	630	686	67	900	0	900	3642.26	5355	16272	914
Sep 2017	450	562	61	670	0	670	3640.95	5343	16115	679
<b>WY 2017</b>	<b>13468</b>	<b>12979</b>	<b>424</b>	<b>8874</b>	<b>126</b>	<b>9000</b>				<b>9124</b>
Oct 2017	547	613	42	640	0	640	3640.41	5338	16051	646
Nov 2017	489	583	41	640	0	640	3639.64	5331	15961	644
Dec 2017	363	578	32	720	0	720	3638.27	5318	15800	726
Jan 2018	361	502	10	1160	0	1160	3632.91	5268	15181	1166
Feb 2018	393	490	11	988	32	1020	3628.45	5228	14680	1022
Mar 2018	665	659	17	1069	11	1080	3624.76	5196	14275	1085
Apr 2018	1056	932	27	966	0	966	3624.24	5191	14218	974
May 2018	2343	2186	33	956	0	956	3634.18	5280	15326	962
Jun 2018	2666	2357	55	1000	0	1000	3644.43	5376	16532	1006
Jul 2018	1091	989	68	1140	0	1140	3642.75	5360	16330	1155
Aug 2018	500	612	66	1220	0	1220	3637.46	5310	15706	1234
Sep 2018	408	542	59	915	0	915	3634.00	5278	15305	924
<b>WY 2018</b>	<b>10882</b>	<b>11044</b>	<b>461</b>	<b>11413</b>	<b>44</b>	<b>11457</b>				<b>11543</b>
Oct 2018	512	582	40	640	0	640	3633.20	5271	15214	646
Nov 2018	473	532	39	640	0	640	3632.00	5260	15078	644
Dec 2018	363	482	31	720	0	720	3629.79	5240	14830	726
Jan 2019	361	458	10	760	0	760	3627.20	5217	14541	766
Feb 2019	393	456	10	680	0	680	3625.22	5200	14325	682
Mar 2019	665	617	17	710	0	710	3624.28	5191	14222	715

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2017 24-Month Study

Most Probable Inflow\*  
Hoover Dam - Lake Mead



Date	Glen Release (1000 Ac-Ft)	Side Inflow 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)
* Apr 2016	665	68	38	1055	17.7	18	1055	630	1076.13	9693
H May 2016	700	50	43	887	14.4	22	885	618	1073.80	9504
I Jun 2016	800	14	51	920	15.5	28	919	606	1071.64	9330
S Jul 2016	950	70	64	831	13.5	30	830	612	1072.75	9419
T Aug 2016	900	107	69	701	11.4	28	700	625	1075.17	9615
O 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>			
R 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
C Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
A Jan 2017	880	128	30	500	8.1	8	494	684	1086.08	10521
L Feb 2017	711	148	28	488	8.8	6	487	704	1089.78	10838
* Mar 2017	720	99	32	911	14.8	16	910	696	1088.26	10707
Apr 2017	620	39	39	954	16.0	23	954	674	1084.32	10372
May 2017	650	26	44	898	14.6	28	898	656	1081.02	10096
Jun 2017	750	10	53	826	13.9	29	826	647	1079.34	9956
Jul 2017	850	77	66	791	12.9	32	791	649	1079.77	9992
Aug 2017	900	127	71	727	11.8	30	727	662	1082.02	10179
Sep 2017	670	110	58	798	13.4	27	798	655	1080.87	10083
<b>WY 2017</b>	<b>9000</b>	<b>984</b>	<b>541</b>	<b>8703</b>		<b>246</b>	<b>8687</b>			
Oct 2017	640	71	42	612	10.0	22	612	657	1081.25	10115
Nov 2017	640	65	42	771	13.0	14	771	650	1079.86	10000
Dec 2017	720	51	36	727	11.8	11	727	650	1079.83	9997
Jan 2018	1160	64	30	720	11.7	7	720	678	1086.07	10435
Feb 2018	1020	72	28	611	11.0	8	611	705	1089.95	10853
Mar 2018	1080	46	32	1039	16.9	16	1039	708	1090.37	10889
Apr 2018	966	39	40	1099	18.5	23	1099	698	1088.66	10742
May 2018	956	26	45	970	15.8	29	970	694	1087.99	10684
Jun 2018	1000	10	55	867	14.6	29	867	698	1088.63	10739
Jul 2018	1140	77	69	827	13.5	32	827	716	1091.77	11010
Aug 2018	1220	127	74	770	12.5	30	770	744	1096.82	11454
Sep 2018	915	110	62	699	11.7	27	699	759	1099.34	11677
<b>WY 2018</b>	<b>11457</b>	<b>757</b>	<b>556</b>	<b>9713</b>		<b>248</b>	<b>9713</b>			
Oct 2018	640	71	46	492	8.0	22	492	768	1100.92	11818
Nov 2018	640	65	46	637	10.7	14	637	769	1101.01	11825
Dec 2018	720	51	40	595	9.7	11	595	776	1102.31	11943
Jan 2019	760	64	32	727	11.8	7	727	780	1102.91	11996
Feb 2019	680	72	30	614	11.1	9	614	786	1103.94	12090
Mar 2019	710	46	33	1045	17.0	17	1045	765	1100.41	11771

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	1055	-18	17	979	0	979	16.4	644.70	1746
H May 2016	887	-6	22	903	0	903	14.7	643.07	1701
I Jun 2016	920	-16	26	838	0	838	14.1	644.53	1741
S Jul 2016	831	-24	26	803	0	803	13.1	643.75	1719
T Aug 2016	701	-12	23	714	0	714	11.6	642.00	1671
O 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>			
R 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
C Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
A Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
L Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
* Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
Apr 2017	954	-20	17	936	0	936	15.7	643.00	1699
May 2017	898	-13	22	863	0	863	14.0	643.00	1699
Jun 2017	826	-18	25	810	0	810	13.6	642.00	1671
Jul 2017	791	-16	25	763	0	763	12.4	641.50	1658
Aug 2017	727	-12	23	692	0	692	11.3	641.50	1658
Sep 2017	798	-11	18	809	0	809	13.6	640.01	1617
<b>WY 2017</b>	<b>8703</b>	<b>-207</b>	<b>198</b>	<b>8307</b>	<b>0</b>	<b>8307</b>			
Oct 2017	612	-4	15	777	0	777	12.6	633.00	1434
Nov 2017	771	-11	10	699	0	699	11.7	635.00	1486
Dec 2017	727	-10	9	610	0	610	9.9	638.71	1583
Jan 2018	720	-19	10	608	0	608	9.9	641.80	1666
Feb 2018	611	-16	10	585	0	585	10.5	641.80	1666
Mar 2018	1039	-16	13	975	0	975	15.9	643.05	1700
Apr 2018	1099	-20	17	998	66	1064	17.9	643.00	1699
May 2018	970	-13	22	935	0	935	15.2	643.00	1699
Jun 2018	867	-18	25	851	0	851	14.3	642.00	1671
Jul 2018	827	-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	699	-11	18	710	0	710	11.9	640.01	1617
<b>WY 2018</b>	<b>9713</b>	<b>-166</b>	<b>197</b>	<b>9284</b>	<b>66</b>	<b>9349</b>			
Oct 2018	492	-4	15	657	0	657	10.7	633.00	1434
Nov 2018	637	-11	10	564	0	564	9.5	635.00	1486
Dec 2018	595	-10	9	479	0	479	7.8	638.71	1583
Jan 2019	727	-19	10	615	0	615	10.0	641.80	1666
Feb 2019	614	-16	10	588	0	588	10.6	641.80	1666
Mar 2019	1045	-16	13	981	0	981	16.0	643.05	1700

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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)
* Apr 2016	979	18	11	689	11.6	93	169	448.89	597	202	3.4
H May 2016	903	13	13	636	10.3	97	176	448.08	581	97	1.6
I Jun 2016	838	18	15	633	10.6	95	89	448.81	596	92	1.5
S Jul 2016	803	20	17	617	10.0	100	74	449.03	600	102	1.7
T Aug 2016	714	23	17	570	9.3	85	65	448.50	590	99	1.6
O 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>	
R 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
C Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
A Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
L Feb 2017	486	15	8	393	7.1	13	62	448.30	586	160	2.9
* Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
Apr 2017	936	19	11	734	12.3	41	155	448.00	580	181	3.0
May 2017	863	15	13	635	10.3	44	165	448.50	589	104	1.7
Jun 2017	810	15	16	667	11.2	41	85	448.70	593	105	1.8
Jul 2017	763	26	17	644	10.5	57	72	448.00	580	111	1.8
Aug 2017	692	25	17	570	9.3	57	72	447.50	571	100	1.6
Sep 2017	809	20	15	523	8.8	105	177	447.50	570	89	1.5
<b>WY 2017</b>	<b>8307</b>	<b>262</b>	<b>140</b>	<b>6208</b>		<b>693</b>	<b>1443</b>			<b>1449</b>	
Oct 2017	777	28	12	499	8.1	107	179	447.50	571	74	1.2
Nov 2017	699	19	9	418	7.0	105	179	447.50	571	119	2.0
Dec 2017	610	19	7	351	5.7	107	179	446.50	552	134	2.2
Jan 2018	608	17	6	361	5.9	96	157	446.50	552	138	2.2
Feb 2018	585	10	8	477	8.6	30	73	446.50	552	160	2.9
Mar 2018	975	7	9	713	11.6	96	152	446.70	555	198	3.2
Apr 2018	1064	19	11	745	12.5	94	184	448.70	593	175	2.9
May 2018	935	15	13	640	10.4	96	189	448.70	593	104	1.7
Jun 2018	851	15	16	671	11.3	94	73	448.70	593	105	1.8
Jul 2018	800	26	17	639	10.4	96	73	448.00	580	111	1.8
Aug 2018	735	25	17	573	9.3	96	73	447.50	571	100	1.6
Sep 2018	710	20	15	510	8.6	39	157	447.50	570	89	1.5
<b>WY 2018</b>	<b>9349</b>	<b>220</b>	<b>139</b>	<b>6598</b>		<b>1056</b>	<b>1670</b>			<b>1507</b>	
Oct 2018	657	28	12	486	7.9	32	147	447.50	571	74	1.2
Nov 2018	564	19	9	390	6.5	32	147	447.50	571	116	1.9
Dec 2018	479	19	7	326	5.3	32	147	446.50	552	131	2.1
Jan 2019	615	17	6	360	5.8	104	158	446.50	552	138	2.2
Feb 2019	588	10	8	475	8.6	35	74	446.50	552	160	2.9
Mar 2019	981	7	9	710	11.5	104	153	446.70	555	198	3.2

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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
* Apr 2016	1055	17.7	1076.13	9693	-355	429.37	1244.0	413.9	80	392.2
H May 2016	887	14.4	1073.80	9504	-189	426.83	1164.0	343.6	74	387.5
I Jun 2016	920	15.5	1071.64	9330	-174	425.27	1528.0	349.7	100	380.2
S Jul 2016	831	13.5	1072.75	9419	89	427.46	1528.0	311.5	100	374.8
T Aug 2016	701	11.4	1075.17	9615	196	431.00	1549.0	265.2	100	378.4
O 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>		
R 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
C Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
A Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
L Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
* Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
Apr 2017	954	16.0	1084.32	10372	-335	435.16	1227.0	376.4	76	394.7
May 2017	898	14.6	1081.02	10096	-276	431.28	1251.0	351.3	80	391.4
Jun 2017	826	13.9	1079.34	9956	-139	427.03	1549.0	322.2	100	390.0
Jul 2017	791	12.9	1079.77	9992	36	426.90	1550.0	306.1	100	387.0
Aug 2017	727	11.8	1082.02	10179	187	428.39	1562.0	279.7	100	384.7
Sep 2017	798	13.4	1080.87	10083	-96	429.42	1562.0	311.8	100	390.8
<b>WY 2017</b>	<b>8703</b>							<b>3385.3</b>		
Oct 2017	612	10.0	1081.25	10115	32	433.91	1166.9	239.3	74	390.9
Nov 2017	771	13.0	1079.86	10000	-115	436.47	1050.9	309.6	67	401.4
Dec 2017	727	11.8	1079.83	9997	-3	434.40	980.0	288.2	63	396.7
Jan 2018	720	11.7	1086.07	10435	438	434.74	991.0	285.3	63	396.4
Feb 2018	611	11.0	1089.95	10853	418	438.77	996.9	242.3	63	396.6
Mar 2018	1039	16.9	1090.37	10889	36	440.96	994.0	424.8	63	408.8
Apr 2018	1099	18.5	1088.66	10742	-147	440.61	878.1	459.3	57	418.0
May 2018	970	15.8	1087.99	10684	-58	436.07	1345.0	385.7	88	397.6
Jun 2018	867	14.6	1088.63	10739	55	435.09	1518.0	338.8	100	390.7
Jul 2018	827	13.5	1091.77	11010	271	437.45	1518.0	329.3	100	398.0
Aug 2018	770	12.5	1096.82	11454	443	441.68	1528.0	307.0	100	398.5
Sep 2018	699	11.7	1099.34	11677	223	445.92	1601.8	278.7	100	398.8
<b>WY 2018</b>	<b>9713</b>							<b>3888.4</b>		
Oct 2018	492	8.0	1100.92	11818	141	452.88	1196.9	200.4	74	406.9
Nov 2018	637	10.7	1101.01	11825	7	456.78	1081.7	260.1	67	408.2
Dec 2018	595	9.7	1102.31	11943	118	456.11	1012.3	243.7	63	409.4
Jan 2019	727	11.8	1102.91	11996	53	454.80	1031.7	300.6	63	413.6
Feb 2019	614	11.1	1103.94	12090	93	454.61	1044.9	251.6	63	409.7
Mar 2019	1045	17.0	1100.41	11771	-318	452.91	1051.1	438.4	63	419.7

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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
* Apr 2016	979	16.4	644.70	1746	42	143.66	255.0	125.4	100	128.2
H May 2016	903	14.7	643.07	1701	-45	141.63	252.5	115.5	99	127.8
I Jun 2016	838	14.1	644.53	1741	40	143.17	255.0	107.4	100	128.1
S Jul 2016	803	13.1	643.75	1719	-22	144.39	252.5	103.3	99	128.6
T Aug 2016	714	11.6	642.00	1671	-48	142.46	255.0	91.6	100	128.4
O 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>		
R 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
C Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
A Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
L Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
* Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
Apr 2017	936	15.7	643.00	1699	-19	137.01	231.2	117.3	91	125.4
May 2017	863	14.0	643.00	1699	0	136.04	255.0	108.4	100	125.6
Jun 2017	810	13.6	642.00	1671	-27	135.51	255.0	101.5	100	125.3
Jul 2017	763	12.4	641.50	1658	-14	134.73	255.0	95.4	100	125.0
Aug 2017	692	11.3	641.50	1658	0	134.46	255.0	86.6	100	125.2
Sep 2017	809	13.6	640.01	1617	-40	133.68	255.0	100.0	100	123.7
<b>WY 2017</b>	<b>8307</b>							<b>1049.1</b>		
Oct 2017	777	12.6	633.00	1434	-183	130.74	202.3	93.4	79	120.2
Nov 2017	699	11.7	635.00	1486	51	129.19	170.0	82.6	67	118.3
Dec 2017	610	9.9	638.71	1583	97	132.25	167.8	74.2	66	121.5
Jan 2018	608	9.9	641.80	1666	83	135.80	167.8	75.7	66	124.6
Feb 2018	585	10.5	641.80	1666	0	137.35	167.8	73.6	66	125.7
Mar 2018	975	15.9	643.05	1700	34	137.98	167.8	121.4	66	124.5
Apr 2018	998	16.8	643.00	1699	-2	138.33	167.8	124.5	66	124.8
May 2018	935	15.2	643.00	1699	0	138.56	167.8	117.1	66	125.2
Jun 2018	851	14.3	642.00	1671	-27	138.05	167.8	106.5	66	125.0
Jul 2018	800	13.0	641.50	1658	-14	137.30	167.8	99.8	66	124.8
Aug 2018	735	12.0	641.50	1658	0	137.05	167.8	91.9	66	124.9
Sep 2018	710	11.9	640.01	1617	-40	133.68	255.0	88.2	100	124.3
<b>WY 2018</b>	<b>9284</b>							<b>1148.8</b>		
Oct 2018	657	10.7	633.00	1434	-183	130.74	202.3	79.4	79	120.9
Nov 2018	564	9.5	635.00	1486	51	129.19	170.0	67.2	67	119.1
Dec 2018	479	7.8	638.71	1583	97	132.25	167.8	58.6	66	122.3
Jan 2019	615	10.0	641.80	1666	83	134.43	210.6	76.6	83	124.5
Feb 2019	588	10.6	641.80	1666	0	136.73	187.6	73.9	74	125.7
Mar 2019	981	16.0	643.05	1700	34	137.26	190.8	122.1	75	124.5

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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
* Apr 2016	689	11.6	448.89	597	28	83.09	120.0	48.4	100	70.3
H May 2016	636	10.3	448.08	581	-15	82.13	120.0	45.1	100	70.9
I Jun 2016	633	10.6	448.81	596	14	83.02	120.0	44.8	100	70.8
S Jul 2016	617	10.0	449.03	600	4	83.16	120.0	43.7	100	70.9
T Aug 2016	570	9.3	448.50	590	-10	82.60	120.0	40.2	100	70.7
O 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>		
R 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
C Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
A Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
L Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
* Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
Apr 2017	734	12.3	448.00	580	3	75.29	120.0	48.5	100	66.0
May 2017	635	10.3	448.50	589	9	75.61	120.0	41.8	100	65.9
Jun 2017	667	11.2	448.70	593	4	75.95	120.0	44.3	100	66.4
Jul 2017	644	10.5	448.00	580	-13	75.71	120.0	42.5	100	66.0
Aug 2017	570	9.3	447.50	571	-9	75.13	120.0	37.3	100	65.3
Sep 2017	523	8.8	447.50	570	0	75.69	102.0	34.4	85	65.8
<b>WY 2017</b>	<b>6208</b>							<b>418.5</b>		
Oct 2017	499	8.1	447.50	571	0	74.97	118.1	32.4	98	64.9
Nov 2017	418	7.0	447.50	571	0	75.93	97.0	27.3	81	65.4
Dec 2017	351	5.7	446.50	552	-19	74.40	120.0	22.2	100	63.4
Jan 2018	361	5.9	446.50	552	0	74.88	98.7	23.1	82	64.0
Feb 2018	477	8.6	446.50	552	0	75.04	95.4	31.2	79	65.3
Mar 2018	713	11.6	446.70	555	4	74.01	120.0	46.3	100	65.0
Apr 2018	745	12.5	448.70	593	38	75.08	120.0	49.1	100	65.9
May 2018	640	10.4	448.70	593	0	76.05	120.0	42.4	100	66.3
Jun 2018	671	11.3	448.70	593	0	76.05	120.0	44.6	100	66.5
Jul 2018	639	10.4	448.00	580	-13	75.71	120.0	42.2	100	66.0
Aug 2018	573	9.3	447.50	571	-9	75.13	120.0	37.5	100	65.4
Sep 2018	510	8.6	447.50	570	0	75.73	101.0	33.5	84	65.8
<b>WY 2018</b>	<b>6598</b>							<b>431.9</b>		
Oct 2018	486	7.9	447.50	571	0	75.01	117.1	31.5	98	64.9
Nov 2018	390	6.5	447.50	571	0	75.83	99.0	25.3	83	65.0
Dec 2018	326	5.3	446.50	552	-19	74.40	120.0	20.6	100	63.2
Jan 2019	360	5.8	446.50	552	0	75.02	95.8	23.0	80	64.1
Feb 2019	475	8.6	446.50	552	0	75.21	92.1	31.1	77	65.5
Mar 2019	710	11.5	446.70	555	4	74.05	119.0	46.1	99	65.0

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 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
* Apr 2016	288	19	18	25	16	4
May 2016	305	20	38	61	21	7
I Jun 2016	360	105	14	18	15	9
S Jul 2016	435	46	34	40	22	6
T Aug 2016	408	44	33	39	22	6
O 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>
R Oct 2016	269	33	26	33	19	0
I Nov 2016	277	30	9	11	6	0
C Dec 2016	395	41	10	11	6	0
A Jan 2017	385	43	10	11	5	0
L Feb 2017	307	43	13	19	10	0
* 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>
Apr 2017	245	102	17	25	15	7
May 2017	264	106	62	110	23	6
Jun 2017	317	103	46	65	22	8
Jul 2017	366	64	41	48	23	10
Aug 2017	388	53	34	40	21	10
Sep 2017	288	51	32	38	20	6
<b>Summer 2017</b>	<b>1869</b>	<b>480</b>	<b>232</b>	<b>326</b>	<b>125</b>	<b>46</b>
Oct 2017	275	53	22	27	14	7
Nov 2017	274	51	20	25	13	6
Dec 2017	308	52	41	50	23	6
Jan 2018	493	52	16	20	11	6
Feb 2018	416	47	11	15	8	5
Mar 2018	447	52	13	17	9	5
<b>Winter 2018</b>	<b>2213</b>	<b>306</b>	<b>123</b>	<b>154</b>	<b>78</b>	<b>35</b>
Apr 2018	402	50	16	23	13	6
May 2018	401	70	41	60	23	6
Jun 2018	427	69	20	31	21	8
Jul 2018	490	36	33	40	22	10
Aug 2018	521	36	40	47	23	10
Sep 2018	388	35	36	43	22	6
<b>Summer 2018</b>	<b>2630</b>	<b>296</b>	<b>186</b>	<b>244</b>	<b>124</b>	<b>46</b>
Oct 2018	271	36	22	27	14	6
Nov 2018	270	35	15	18	10	6
Dec 2018	303	36	23	28	14	6
Jan 2019	318	36	16	20	11	5
Feb 2019	284	32	13	17	9	4
Mar 2019	296	36	13	18	10	4
<b>Winter 2019</b>	<b>1447</b>	<b>175</b>	<b>88</b>	<b>111</b>	<b>57</b>	<b>27</b>

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

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

April 2017 24-Month Study

Most Probable Inflow\*

Flood Control Criteria

Beginning of Month Conditions

Date	***** PREDICTED SPACE *****										***** EFFECTIVE SPACE *****									
	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF		
Apr 2017	717	258	236	12958	14168	16670	30838	533	258	-35	756	12958	16670	30384	1500	954	0	30.5		
May 2017	803	183	104	12194	13285	17005	30290	615	183	-185	613	12194	17005	29812	1500	898	0	32.3		
Jun 2017	730	213	224	10041	11207	17281	28488	529	213	-98	643	10041	17281	27965	1500	826	0	34.5		
Jul 2017	506	19	365	7979	8870	17421	26291	290	0	-3	288	7979	17421	25688	1500	791	0	34.9		
Aug 2017	240	14	417	7790	8462	17385	25847	240	14	417	672	7790	17385	25847	1500	727	0	34.8		
Sep 2017	226	45	450	8050	8772	17198	25969	226	45	450	722	8050	17198	25969	2270	798	0	34.4		
Oct 2017	275	84	464	8207	9029	17294	26323	275	84	464	822	8207	17294	26323	3040	612	0	34.1		
Nov 2017	332	107	454	8271	9165	17262	26427	332	107	454	894	8271	17262	26427	3810	771	0	33.8		
Dec 2017	407	138	453	8361	9358	17377	26735	407	138	453	997	8361	17377	26735	4580	727	0	33.5		
Jan 2018	514	249	454	8522	9739	17380	27119	514	249	454	1216	8522	17380	27119	5350	720	0	33.3		
Feb 2018	616	277	467	9141	10501	16942	27443	240	277	211	729	9141	16942	26811	1500	611	0	33.1		
Mar 2018	700	291	469	9642	11101	16524	27625	324	291	211	827	9642	16524	26992	1500	1039	0	32.8		
Apr 2018	743	298	423	10047	11511	16488	27998	364	298	159	821	10047	16488	27356	1500	1099	0	32.7		
May 2018	752	278	343	10104	11477	16635	28112	368	278	56	702	10104	16635	27441	1500	970	0	33.9		
Jun 2018	708	205	334	8996	10244	16693	26937	314	205	9	528	8996	16693	26217	1500	867	0	35.4		
Jul 2018	520	31	427	7790	8768	16638	25406	112	12	47	170	7790	16638	24598	1500	827	0	35.5		
Aug 2018	426	19	441	7992	8878	16367	25245	426	19	441	886	7992	16367	25245	1500	770	0	35.2		
Sep 2018	451	74	465	8616	9606	15923	25530	451	74	465	990	8616	15923	25530	2270	699	0	34.9		
Oct 2018	503	145	470	9017	10135	15700	25835	503	145	470	1118	9017	15700	25835	3040	492	0	34.7		
Nov 2018	550	180	466	9108	10302	15559	25862	550	180	466	1195	9108	15559	25862	3810	637	0	34.5		
Dec 2018	597	197	470	9244	10508	15552	26060	597	197	470	1264	9244	15552	26060	4580	595	0	34.3		
Jan 2019	662	246	481	9492	10881	15434	26316	662	246	481	1389	9492	15434	26316	5350	727	0	34.1		
Feb 2019	721	275	494	9781	11271	15381	26652	446	275	239	960	9781	15381	26122	1500	614	0	33.9		
Mar 2019	768	294	496	9997	11555	15287	26842	490	294	240	1024	9997	15287	26309	1500	1045	0	33.5		

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