

**March 24-Month Study**  
**Date: March 13, 2018**

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

**Current Reservoir Status**

Reservoir	February Inflow (unregulated) (acre-feet)	Percent of Average (%)	March 12, Midnight Elevation (feet)	March 12, Midnight Reservoir Storage (acre-feet)
Fontenelle	38,000	138	6,469.79	117,000
Flaming Gorge	57,000	128	6,025.81	3,190,000
Blue Mesa	23,000	102	7,484.55	540,000
Navajo	15,000	48	6,051.35	1,241,000
Powell	269,000	69	3,614.63	13,202,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this March 2018 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 2018 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2017 24-Month Study projections of the January 1, 2018, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2018.

Consistent with Section 6.B of the Interim Guidelines, 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. This March 2018 24-Month Study indicates that, consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is projected to occur and Lake Powell is projected to release 9.0 maf in water year 2018.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2018.

The Interim Guidelines are available for download at:

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

The 2018 AOP is available for download at:

<https://www.usbr.gov/lc/region/g4000/aop/AOP18.pdf>

***Fontenelle Reservoir*** – Fontenelle Reservoir is currently at elevation 6472 feet above sea level (feet), which amounts to 37 percent of live storage capacity. Inflows for the month of February totaled 38,300 acre-feet (af), or 138 percent of average. Above average inflows are forecasted over the next few months and releases have been increased in order to meet the spring elevation target. Releases have been set to base flow levels of 1,300 cubic feet per second (cfs) and are anticipated to change when downstream icing threats have passed.

The Colorado Basin River Forecast Center has forecasted spring inflows that are significantly above average. March, April, and May forecasted inflow volumes amount to 55,000 af (105 percent of average), 95,000 af (111 percent of average), and 175,000 af (107 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., April 17, 2018. 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 1,700 cfs with fluctuations for hydropower, and will increase or decrease throughout the spring season to meet the May 1 elevation target of 6,027 feet.

Unregulated inflow into Flaming Gorge Reservoir during the month of February was 57,000 af, or 128 percent of average. The reservoir elevation currently is 6,025.9 feet (85 percent of live capacity) and increasing.

The March final forecast for inflows for the next three months projects near to below average conditions: March, April and May forecasted inflow volumes at 108,000 af (106 percent of average), 125,000 af (94 percent of average), and 220,000 af (90 percent of average), respectively.

The March water supply forecast of the April through July unregulated inflow volume into Flaming Gorge Reservoir is 940,000 acre-feet (96 percent of average). Current snowpack is 108 percent of median and we have received 89 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 19, 2018, at 11:00 a.m. at the Utah Division of Wildlife Resources offices located at 318 North Vernal Avenue, Vernal, Utah.

**Aspinall Unit Reservoirs** – Releases from Crystal Dam are approximately 650 cfs. Uncompahgre Valley Water Users Association will likely begin diverting water through the Gunnison Tunnel by mid-March 2018. When this occurs, releases from Crystal will likely be adjusted to maintain flows in the Black Canyon at or above 650 cfs until such time that a spring operation plan is initiated which will likely occur near mid-May. Blue Mesa Reservoir elevation is 7586.51 feet which corresponds to a storage content 539,000 af (65 percent of full capacity).

The February unregulated inflow to Blue Mesa Reservoir was 22,899 af (102 percent of average). Unregulated Inflows to Blue Mesa for the next three months (March, April and May) are projected to be: 27,000 af (75 percent of average), 46,000 af (60 percent of average) and 130,000 af (59 percent of average), respectively. For water year 2018, the unregulated inflow volume is forecasted to be 627,000 af (66 percent of average) with 395,000 af (58 percent of average) forecasted unregulated inflow during the April through July period. The March 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.

Meeting notes from past working Group meetings are posted on the Working Group webpage at:

<https://www.usbr.gov/uc/wcao/water/rsvrs/mtgs/amcurrnt.html>

The next meeting of the Aspinall Unit Working Group will be held on Thursday, April 17<sup>th</sup>, 2018 at 1:00 pm at the at the Western Colorado Area Office located at 445 West Gunnison Avenue in Grand Junction, Colorado.

**Navajo Reservoir** – As of March 5<sup>th</sup>, 2018, the daily average release at Navajo is 325 cfs, and the observed inflow is 217 cfs. The reservoir elevation is 6052.5 feet (1,243,000 af), and is 73 percent full (56 percent of active storage). The San Juan River at Four Corners USGS gage is at 541 cfs. The Animas River at Farmington USGS gage is at 145 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.

Currently SNOTEL sites are showing an average of 9.9 inches of SWE above Navajo, which is 53 percent of the median and 49 percent of the seasonal median peak.

Modified unregulated inflow into Navajo in February was 15,200 af (50 percent of average). The Navajo Reservoir most probable modified-unregulated inflow forecast for March, April and May is 30,000 af (32 percent of average), 60,000 af (35 percent of average), and 125,000 af (45% of average), respectively.

The April-July runoff forecasts are as follows:

Min Prob: 150,000 af (20% avg, no change since the last forecast)

Most Prob: 285,000 af (39% avg, an increase of 25,000 af since the last forecast)

Max Prob: 470,000 af (64% avg, no change since the last forecast)

Under the current soil moisture conditions, snowpack, and inflow forecast for the runoff season, there are no current plans for a spring peak release at Navajo Reservoir.

Releases for the remainder of the winter will be made to maintain the minimum target baseflow in the critical habitat reach and will likely range from 300 and 500 cfs.

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 February 13, 2018, at 1:00 p.m. at the Farmington Civic Center, Farmington, NM.

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

### **Current Status**

The unregulated inflow to Lake Powell in February was 269 thousand acre-feet (kaf) (69 percent of average). The release volume from Glen Canyon Dam in February was 730 kaf. The end of February elevation and storage of Lake Powell were 3,616 feet (84 feet from full pool) and 13.3 maf (55 percent of full capacity), respectively. The reservoir is

declining and will continue to decline until spring runoff begins to enter the reservoir. The current snowpack above Lake Powell is 71 percent of average.

### **Current Operations**

The operating tier for water year 2018 was established in August 2017 as the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 maf and the potential for an April 2018 adjustment to equalization or balancing releases. Based on the current forecast, an April adjustment to balancing is projected to occur and Lake Powell is currently projected to release 9.0 maf in water year 2018. This projection will be updated each month throughout 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, 2018.

In March 2018, the release volume will be approximately 800 kaf, with fluctuations anticipated between approximately 7,200 cfs and 16,000 cfs and consistent with the Glen Canyon Dam, Record of Decision (dated December 2016). The anticipated release volume for April is approximately 705 kaf with daily fluctuations between approximately 8,650 cfs and 15,000 cfs. The expected release for May is 705 kaf with daily fluctuations between approximately 7,050 cfs and 13,390 cfs.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 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 2018 water supply forecast for unregulated inflow to Lake Powell, issued on March 2, 2018, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume will be 3.4 maf (47 percent of average based on the period 1981-2010). The projected water year 2018 inflow is 6.0 maf (55 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 2.2 maf (31 percent of average) to a maximum probable of 5.7 maf (80 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.

Based on the current forecast, the March 24-Month Study projects Lake Powell elevation will end water year 2018 near 3,601 feet with approximately 11.8 maf in storage (49 percent of capacity). Note that projections of elevation and storage for water year 2018 have significant uncertainty at this point in the season. Projections of elevation and storage using the minimum and maximum probable inflow forecast, updated in January, are 3,591 feet (10.9 maf, 45 percent of capacity) and 3,628 feet (14.7 maf, 60 percent of capacity), respectively. Under these scenarios, there is a 10 percent chance that inflows will be higher, resulting in higher elevation and storage, and 10 percent chance that inflows will be lower, potentially in lower elevation and storage. The annual release volume from Lake Powell during water year 2018 is projected to be 9.0 maf under the minimum, most, and maximum probable inflow scenarios. There is a chance that inflows could be higher or lower, potentially resulting in releases greater than 9.0 maf or as low as 8.23 maf in water year 2018. The minimum and maximum probable scenarios will be updated again in April.

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

The Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. During the 18-year period 2000 to 2017, 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 4 out of the past 18 years. The period 2000-2017 is the lowest 18-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.76 maf, or 81 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 2000-2017 period has ranged from a low of 2.64 maf (24 percent of average) in water year 2002 to a high of 15.97 maf (147 percent of average) in water year 2011. In water year 2017 unregulated inflow volume to Lake Powell was 11.9 maf (110 percent of average), the fourth year to be above average. Under the current most probable forecast, the total water year 2018 unregulated inflow to Lake Powell is projected to be 6.0 maf (55 percent of average).

At the beginning of water year 2018, total system storage in the Colorado River Basin was 32.9 maf (55 percent of 59.6 maf total system capacity). This is an increase of 2.7 maf over the total storage at the beginning of water year 2017 when total system storage was 30.2 maf (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 2018 is approximately 29.3 maf (49 percent of total system capacity). The actual end of water year 2018 system storage may vary from this projection, primarily due to uncertainty regarding this season's runoff and reservoir inflow. Based on the January minimum and maximum probable inflow forecasts and modeling, the range of end of water year 2018

total system capacity is approximately 28.0 maf (47 percent of capacity) to 32.7 maf (55 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 8100  
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	jan	Forecast	Outlook					
:		oct	nov	dec	jan	%Avg	feb	mar	apr	apr-jul	%Avg
GLDA3:Lake Powell		387	299	262	260	66%:	400/	550/	1150/	3400/:	47%
GBRW4:Fontenelle		62	46	42	38	137%:	55/	95/	175/	840/:	116%
GRNU1:Flaming Gorge		82	52	52	57	128%:	108/	125/	220/	940/:	96%
BMDC2:Blue Mesa		32	25	20	23	103%:	27/	46/	130/	395/:	59%
MPSC2:Morrow Point		34	26	22	24	96%:	30/	55/	141/	430/:	58%
CLSC2:Crystal		38	29	25	27	94%:	35/	62/	160/	475/:	57%
TPIC2:Taylor Park		5.9	4.1	4.2	3.8	100%:	4/	7/	21/	70/:	71%
VCRC2:Vallecito		5.1	3.2	2.7	2.2	46%:	4/	8/	33/	80/:	41%
NVRN5:Navajo		18.8	10.3	12.2	13.4	44%:	30/	60/	130/	285/:	39%
LEMC2:Lemon		0.73	0.50	0.40	0.38	50%:	1/	2/	8/	18/:	33%
MPHC2:McPhee		2.2	0.71	1.68	2.0	40%:	6/	22/	54/	113/:	38%
RBSC2:Ridgway		5.0	3.7	3.4	3.1	86%:	5/	7/	16/	59/:	58%



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2018 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)
* Mar 2017	180	1	0	150	150	6486.90	207
H Apr 2017	225	1	0	304	304	6472.17	128
I May 2017	430	1	54	373	427	6472.55	129
S Jun 2017	732	2	74	469	543	6502.49	317
T Jul 2017	332	3	88	230	319	6503.83	328
O Aug 2017	102	2	95	61	156	6496.34	271
R Sep 2017	66	2	69	4	72	6495.21	263
<b>WY 2017</b>	<b>2319</b>	<b>15</b>	<b>379</b>	<b>1890</b>	<b>2270</b>		
I Oct 2017	73	1	80	0	80	6494.03	255
C Nov 2017	62	1	78	0	78	6491.65	238
A Dec 2017	46	1	72	8	80	6486.39	204
L Jan 2018	42	1	79	1	80	6479.83	165
* Feb 2018	38	0	72	0	72	6472.86	131
Mar 2018	55	0	74	0	74	6468.25	112
Apr 2018	95	1	88	0	88	6469.82	118
May 2018	175	1	97	57	154	6474.40	139
Jun 2018	370	2	101	114	215	6499.04	292
Jul 2018	200	3	101	47	148	6505.42	341
Aug 2018	80	2	80	0	80	6505.13	339
Sep 2018	47	2	71	0	71	6501.85	313
<b>WY 2018</b>	<b>1284</b>	<b>15</b>	<b>992</b>	<b>228</b>	<b>1220</b>		
Oct 2018	49	1	73	0	73	6498.54	288
Nov 2018	42	1	71	0	71	6494.52	259
Dec 2018	32	1	73	0	73	6488.29	217
Jan 2019	30	1	73	0	73	6481.22	174
Feb 2019	28	1	66	0	66	6473.52	135
Mar 2019	53	0	73	0	73	6468.69	114
Apr 2019	85	1	74	0	74	6471.28	125
May 2019	164	1	99	11	110	6481.89	177
Jun 2019	299	2	103	72	175	6500.07	299
Jul 2019	178	3	101	30	130	6505.78	344
Aug 2019	77	2	85	0	85	6504.43	333
Sep 2019	46	2	77	0	77	6500.22	301
<b>WY 2019</b>	<b>1083</b>	<b>15</b>	<b>967</b>	<b>113</b>	<b>1080</b>		
Oct 2019	49	1	73	0	73	6496.72	275
Nov 2019	42	1	68	0	68	6492.99	248
Dec 2019	32	1	70	0	70	6487.14	209
Jan 2020	30	1	70	0	70	6480.40	169
Feb 2020	28	0	66	0	66	6472.64	131

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2018 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)
* Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
H Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
I May 2017	582	580	8	278	171	449	129	6026.15	3203	857
S Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
T Jul 2017	387	374	14	180	48	228	142	6034.61	3531	315
O Aug 2017	120	174	13	143	0	143	143	6035.05	3548	173
R Sep 2017	87	93	11	141	0	141	140	6033.63	3491	161
<b>WY 2017</b>	<b>3153</b>	<b>3104</b>	<b>81</b>	<b>2016</b>	<b>712</b>	<b>2728</b>				<b>4225</b>
I Oct 2017	88	95	8	107	0	107	140	6033.17	3473	155
C Nov 2017	82	98	4	139	0	139	138	6032.07	3430	171
A Dec 2017	52	86	2	174	0	174	135	6029.85	3343	201
L Jan 2018	52	90	2	175	0	175	131	6027.65	3259	204
* Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
Mar 2018	108	127	3	106	0	106	129	6026.39	3212	166
Apr 2018	125	118	5	101	0	101	130	6026.69	3223	251
May 2018	220	199	8	164	0	164	131	6027.37	3249	484
Jun 2018	390	235	10	157	0	157	133	6029.07	3313	437
Jul 2018	205	153	14	101	0	101	135	6030.02	3350	141
Aug 2018	90	90	13	101	0	101	134	6029.41	3326	117
Sep 2018	56	80	11	98	0	98	133	6028.67	3298	108
<b>WY 2018</b>	<b>1525</b>	<b>1461</b>	<b>81</b>	<b>1580</b>	<b>1</b>	<b>1582</b>				<b>2634</b>
Oct 2018	60	83	7	101	0	101	132	6028.03	3274	124
Nov 2018	51	80	3	98	0	98	131	6027.47	3253	125
Dec 2018	35	76	2	101	0	101	130	6026.78	3226	127
Jan 2019	40	83	2	101	0	101	129	6026.27	3207	127
Feb 2019	45	83	2	92	0	92	129	6025.99	3197	120
Mar 2019	102	123	3	101	0	101	129	6026.46	3215	178
Apr 2019	134	122	5	98	0	98	130	6026.95	3233	313
May 2019	245	191	8	167	0	167	131	6027.38	3249	698
Jun 2019	390	265	10	141	0	141	135	6030.25	3359	561
Jul 2019	210	163	14	100	0	100	137	6031.47	3406	200
Aug 2019	89	97	13	100	0	100	136	6031.08	3391	125
Sep 2019	55	86	11	97	0	97	136	6030.53	3370	116
<b>WY 2019</b>	<b>1455</b>	<b>1453</b>	<b>80</b>	<b>1298</b>	<b>0</b>	<b>1298</b>				<b>2813</b>
Oct 2019	59	84	7	100	0	100	135	6029.95	3347	132
Nov 2019	51	77	4	97	0	97	134	6029.36	3325	128
Dec 2019	35	73	2	100	0	100	133	6028.64	3297	125
Jan 2020	40	80	2	100	0	100	132	6028.10	3276	125
Feb 2020	45	82	2	93	0	93	131	6027.76	3264	121

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Mar 2017	6	6	9309.23	69
H Apr 2017	13	9	9312.04	73
I May 2017	30	19	9318.55	84
S Jun 2017	62	45	9327.76	102
T Jul 2017	24	26	9326.95	100
O Aug 2017	12	25	9320.31	88
R Sep 2017	8	18	9314.58	77
<b>WY 2017</b>	<b>179</b>	<b>173</b>		
I Oct 2017	8	8	9314.93	78
C Nov 2017	6	6	9315.09	78
A Dec 2017	4	6	9313.84	76
L Jan 2018	4	6	9312.64	74
* Feb 2018	4	6	9311.50	72
Mar 2018	4	6	9310.16	70
Apr 2018	7	6	9310.81	71
May 2018	21	10	9317.17	82
Jun 2018	31	17	9324.54	95
Jul 2018	11	18	9320.57	88
Aug 2018	7	15	9315.87	80
Sep 2018	6	14	9310.78	71
<b>WY 2018</b>	<b>113</b>	<b>120</b>		
Oct 2018	6	6	9310.67	71
Nov 2018	5	6	9309.91	70
Dec 2018	5	6	9309.08	68
Jan 2019	4	6	9308.01	67
Feb 2019	4	6	9306.57	65
Mar 2019	4	6	9305.53	63
Apr 2019	9	6	9307.36	66
May 2019	28	18	9313.78	76
Jun 2019	42	30	9320.46	88
Jul 2019	20	20	9320.54	88
Aug 2019	10	10	9320.70	88
Sep 2019	7	8	9320.36	88
<b>WY 2019</b>	<b>144</b>	<b>128</b>		
Oct 2019	7	8	9319.62	86
Nov 2019	5	8	9318.01	83
Dec 2019	5	8	9316.11	80
Jan 2020	4	8	9313.97	76
Feb 2020	4	8	9311.43	72

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2018 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)
*	Mar 2017	70	70	0	69	0	70	7488.71	571
H	Apr 2017	145	140	1	53	0	53	7499.55	658
I	May 2017	244	233	1	151	65	293	7491.98	597
S	Jun 2017	392	373	1	139	35	175	7515.35	793
T	Jul 2017	135	137	2	113	0	110	7518.20	819
O	Aug 2017	84	96	1	111	0	111	7516.38	802
R	Sep 2017	35	45	1	115	0	114	7508.43	732
<b>WY 2017</b>		<b>1245</b>	<b>1238</b>	<b>9</b>	<b>987</b>	<b>101</b>	<b>1163</b>		
I	Oct 2017	37	37	1	102	0	102	7500.64	667
C	Nov 2017	32	32	0	40	0	40	7499.68	659
A	Dec 2017	25	27	0	93	0	93	7491.44	593
L	Jan 2018	20	22	0	60	0	60	7486.51	554
*	Feb 2018	23	25	0	32	0	32	7485.54	547
	Mar 2018	27	29	0	38	0	38	7484.36	538
	Apr 2018	46	45	1	67	0	67	7481.28	515
	May 2018	130	119	1	71	0	71	7487.53	562
	Jun 2018	162	148	1	52	0	52	7499.48	657
	Jul 2018	57	64	1	77	0	77	7497.77	643
	Aug 2018	37	45	1	77	0	77	7493.69	610
	Sep 2018	31	39	1	65	0	65	7490.28	584
<b>WY 2018</b>		<b>627</b>	<b>634</b>	<b>8</b>	<b>774</b>	<b>0</b>	<b>774</b>		
	Oct 2018	34	34	1	40	0	40	7489.42	577
	Nov 2018	29	30	0	13	0	13	7491.64	594
	Dec 2018	26	27	0	24	0	24	7492.00	597
	Jan 2019	24	26	0	24	0	24	7492.25	599
	Feb 2019	22	25	0	21	0	21	7492.64	602
	Mar 2019	36	38	0	25	0	25	7494.13	614
	Apr 2019	77	74	1	36	0	36	7498.79	651
	May 2019	221	211	1	167	0	167	7503.89	694
	Jun 2019	261	249	1	136	0	136	7516.69	805
	Jul 2019	117	117	2	99	0	99	7518.45	821
	Aug 2019	63	63	1	108	0	108	7513.29	775
	Sep 2019	38	39	1	107	0	107	7505.25	705
<b>WY 2019</b>		<b>949</b>	<b>932</b>	<b>9</b>	<b>802</b>	<b>0</b>	<b>802</b>		
	Oct 2019	38	40	1	66	0	66	7502.07	678
	Nov 2019	31	34	0	53	0	53	7499.80	660
	Dec 2019	26	29	0	85	0	85	7492.77	603
	Jan 2020	24	28	0	68	0	68	7487.64	563
	Feb 2020	22	27	0	40	0	40	7485.86	550

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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)
*	Mar 2017	74	70	5	74	64	0	68	7148.96	108
H	Apr 2017	157	53	12	66	65	0	65	7149.64	109
I	May 2017	263	293	19	312	203	0	312	7149.70	109
S	Jun 2017	411	175	19	195	184	0	193	7151.34	110
T	Jul 2017	139	110	4	114	37	0	111	7155.13	113
O	Aug 2017	86	111	2	113	0	0	115	7152.68	111
R	Sep 2017	35	114	0	115	92	0	112	7155.62	114
<b>WY 2017</b>		<b>1314</b>	<b>1163</b>	<b>69</b>	<b>1232</b>	<b>893</b>	<b>0</b>	<b>1226</b>		
I	Oct 2017	38	102	1	103	105	0	105	7153.17	112
C	Nov 2017	34	40	1	41	42	0	42	7152.45	111
A	Dec 2017	26	93	1	94	94	0	94	7152.45	111
L	Jan 2018	22	60	2	62	62	0	63	7150.65	110
*	Feb 2018	24	32	1	33	34	0	34	7149.19	108
	Mar 2018	30	38	3	41	37	0	37	7153.73	112
	Apr 2018	55	67	9	76	76	0	76	7153.73	112
	May 2018	141	71	11	82	82	0	82	7153.73	112
	Jun 2018	174	52	12	64	64	0	64	7153.73	112
	Jul 2018	60	77	3	80	80	0	80	7153.73	112
	Aug 2018	39	77	2	79	79	0	79	7153.73	112
	Sep 2018	33	65	2	67	67	0	67	7153.73	112
<b>WY 2018</b>		<b>676</b>	<b>774</b>	<b>49</b>	<b>823</b>	<b>823</b>	<b>0</b>	<b>824</b>		
	Oct 2018	36	40	2	42	42	0	42	7153.73	112
	Nov 2018	31	13	2	15	15	0	15	7153.73	112
	Dec 2018	28	24	2	26	26	0	26	7153.73	112
	Jan 2019	27	24	2	26	26	0	26	7153.73	112
	Feb 2019	25	21	3	24	24	0	24	7153.73	112
	Mar 2019	40	25	4	29	29	0	29	7153.73	112
	Apr 2019	88	36	11	47	47	0	47	7153.73	112
	May 2019	247	167	26	193	193	0	193	7153.73	112
	Jun 2019	281	136	20	156	156	0	156	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
	Sep 2019	41	107	3	110	110	0	110	7153.73	112
<b>WY 2019</b>		<b>1033</b>	<b>802</b>	<b>84</b>	<b>886</b>	<b>886</b>	<b>0</b>	<b>886</b>		
	Oct 2019	41	66	3	68	68	0	68	7153.73	112
	Nov 2019	33	53	2	55	55	0	55	7153.73	112
	Dec 2019	28	85	2	88	88	0	88	7153.73	112
	Jan 2020	27	68	2	70	70	0	70	7153.73	112
	Feb 2020	25	40	3	42	42	0	42	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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)
*	Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	67
H	Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
I	May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
S	Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
T	Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
O	Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
R	Sep 2017	39	112	4	116	115	0	115	6748.63	16	59	56
<b>WY 2017</b>		<b>1423</b>	<b>1226</b>	<b>109</b>	<b>1335</b>	<b>751</b>	<b>350</b>	<b>1334</b>			<b>413</b>	<b>929</b>
I	Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
C	Nov 2017	38	42	4	46	46	0	46	6749.89	16	1	46
A	Dec 2017	29	94	3	97	97	0	97	6749.23	16	1	98
L	Jan 2018	25	63	3	66	62	4	66	6747.99	16	1	67
*	Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	37
	Mar 2018	35	37	5	42	41	0	41	6753.04	17	5	36
	Apr 2018	62	76	7	83	83	0	83	6753.04	17	42	41
	May 2018	160	82	19	101	101	0	101	6753.04	17	62	39
	Jun 2018	190	64	16	80	80	0	80	6753.04	17	61	19
	Jul 2018	63	80	3	83	83	0	83	6753.04	17	63	20
	Aug 2018	43	79	4	83	83	0	83	6753.04	17	65	18
	Sep 2018	37	67	4	71	71	0	71	6753.04	17	55	16
<b>WY 2018</b>		<b>752</b>	<b>824</b>	<b>76</b>	<b>900</b>	<b>874</b>	<b>25</b>	<b>899</b>			<b>411</b>	<b>492</b>
	Oct 2018	40	42	5	47	47	0	47	6753.04	17	30	17
	Nov 2018	35	15	4	19	19	0	19	6753.04	17	0	19
	Dec 2018	32	26	5	31	31	0	31	6753.04	17	0	31
	Jan 2019	31	26	5	31	31	0	31	6753.04	17	0	31
	Feb 2019	29	24	4	28	28	0	28	6753.04	17	0	28
	Mar 2019	46	29	6	36	36	0	36	6753.04	17	5	31
	Apr 2019	101	47	12	60	60	0	60	6753.04	17	42	18
	May 2019	281	193	34	228	134	93	228	6753.04	17	62	166
	Jun 2019	315	156	34	190	130	60	190	6753.04	17	61	129
	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
	Sep 2019	47	110	6	116	116	0	116	6753.04	17	55	61
<b>WY 2019</b>		<b>1171</b>	<b>886</b>	<b>138</b>	<b>1024</b>	<b>870</b>	<b>154</b>	<b>1024</b>			<b>385</b>	<b>639</b>
	Oct 2019	47	68	6	74	74	0	74	6753.04	17	30	44
	Nov 2019	38	55	5	60	60	0	60	6753.04	17	0	60
	Dec 2019	32	88	5	92	92	0	92	6753.04	17	0	92
	Jan 2020	31	70	5	75	75	0	75	6753.04	17	0	75
	Feb 2020	29	42	4	46	46	0	46	6753.04	17	0	46

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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)
*	Mar 2017	24	24	7645.75	77
H	Apr 2017	45	35	7649.82	87
I	May 2017	67	44	7658.86	109
S	Jun 2017	72	57	7664.54	124
T	Jul 2017	30	39	7660.94	115
O	Aug 2017	19	33	7655.15	100
R	Sep 2017	9	34	7644.31	74
<b>WY 2017</b>		<b>303</b>	<b>297</b>		
I	Oct 2017	9	22	7638.22	61
C	Nov 2017	5	2	7639.49	63
A	Dec 2017	3	1	7640.27	65
L	Jan 2018	3	0	7641.42	67
*	Feb 2018	3	0	7642.57	70
	Mar 2018	4	0	7644.12	73
	Apr 2018	8	0	7647.33	81
	May 2018	33	25	7650.37	88
	Jun 2018	28	35	7647.09	80
	Jul 2018	11	34	7636.12	56
	Aug 2018	10	31	7623.76	34
	Sep 2018	9	25	7611.02	18
<b>WY 2018</b>		<b>125</b>	<b>178</b>		
	Oct 2018	11	15	7606.82	14
	Nov 2018	7	2	7612.42	20
	Dec 2018	6	2	7616.31	24
	Jan 2019	5	2	7619.11	28
	Feb 2019	5	2	7621.33	31
	Mar 2019	9	2	7625.75	38
	Apr 2019	23	2	7637.41	59
	May 2019	71	31	7654.84	99
	Jun 2019	70	44	7664.75	125
	Jul 2019	29	42	7659.67	111
	Aug 2019	20	38	7652.38	93
	Sep 2019	17	30	7647.17	80
<b>WY 2019</b>		<b>274</b>	<b>210</b>		
	Oct 2019	16	17	7646.40	78
	Nov 2019	9	2	7649.33	85
	Dec 2019	6	2	7651.17	90
	Jan 2020	5	2	7652.59	93
	Feb 2020	5	2	7653.76	96

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 24-Month Study

Most Probable Inflow\*  
Navajo Reservoir



	Mod Unreg Inflow	Azetea Tunnel Div	Reg Inflow	Evap Losses	NIIP Diversion	Total Release	Reservoir Elev End of Month	Live Storage	Farmington 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)
* Mar 2017	176	17	159	2	6	30	6068.54	1460	98
H Apr 2017	235	33	193	3	19	33	6078.18	1598	132
I May 2017	261	45	195	4	25	228	6073.94	1536	323
S Jun 2017	231	46	166	5	40	259	6063.90	1398	458
T Jul 2017	49	11	48	4	43	38	6061.00	1361	95
O Aug 2017	30	5	38	4	35	36	6058.07	1323	57
R Sep 2017	9	2	33	3	23	42	6055.28	1289	46
<b>WY 2017</b>	<b>1157</b>	<b>160</b>	<b>991</b>	<b>28</b>	<b>198</b>	<b>785</b>			<b>1422</b>
I Oct 2017	38	2	49	2	8	32	6055.89	1296	52
C Nov 2017	19	0	16	1	0	25	6055.04	1286	42
A Dec 2017	10	0	9	1	0	24	6053.69	1270	40
L Jan 2018	12	0	10	1	0	24	6052.47	1255	40
* Feb 2018	15	0	12	1	1	19	6051.73	1246	32
Mar 2018	30	0	26	2	6	24	6051.34	1241	34
Apr 2018	60	10	43	2	20	25	6050.88	1236	44
May 2018	130	23	100	3	35	22	6054.19	1276	85
Jun 2018	72	15	64	4	51	25	6052.86	1260	85
Jul 2018	23	2	45	4	56	41	6048.14	1204	64
Aug 2018	29	0	50	3	47	44	6044.32	1160	63
Sep 2018	30	0	46	2	26	35	6042.76	1143	53
<b>WY 2018</b>	<b>468</b>	<b>52</b>	<b>468</b>	<b>25</b>	<b>250</b>	<b>339</b>			<b>632</b>
Oct 2018	37	0	41	2	9	26	6043.14	1147	46
Nov 2018	30	0	25	1	0	21	6043.40	1150	36
Dec 2018	25	0	21	1	0	22	6043.27	1149	37
Jan 2019	22	0	18	1	0	22	6042.93	1145	35
Feb 2019	30	0	27	1	0	19	6043.55	1152	32
Mar 2019	92	0	86	1	5	22	6048.59	1209	44
Apr 2019	170	10	139	2	21	21	6056.53	1304	73
May 2019	277	23	214	4	36	26	6067.98	1453	172
Jun 2019	224	15	182	5	52	30	6074.79	1548	181
Jul 2019	66	2	77	5	57	42	6072.97	1522	109
Aug 2019	45	0	63	4	48	63	6069.26	1470	102
Sep 2019	43	0	55	3	26	55	6067.15	1442	87
<b>WY 2019</b>	<b>1062</b>	<b>50</b>	<b>948</b>	<b>28</b>	<b>254</b>	<b>368</b>			<b>955</b>
Oct 2019	47	0	48	2	10	31	6067.61	1448	59
Nov 2019	34	0	27	1	0	30	6067.29	1443	48
Dec 2019	25	0	21	1	0	31	6066.49	1433	46
Jan 2020	22	0	18	1	0	31	6065.51	1420	44
Feb 2020	30	0	27	1	0	29	6065.32	1417	41

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
H	Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
I	May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
S	Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
T	Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
O	Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	929
R	Sep 2017	196	410	57	663	0	663	3628.31	5227	14664	671
<b>WY 2017</b>		<b>11905</b>	<b>11396</b>	<b>409</b>	<b>8874</b>	<b>126</b>	<b>9000</b>				<b>9152</b>
I	Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	634
C	Nov 2017	387	454	37	630	0	630	3625.29	5200	14332	619
A	Dec 2017	299	483	29	740	0	740	3622.85	5179	14068	733
L	Jan 2018	262	442	9	860	0	860	3619.14	5147	13672	859
*	Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	735
	Mar 2018	400	404	16	800	0	800	3612.31	5091	12964	805
	Apr 2018	550	543	25	705	0	705	3610.60	5077	12791	713
	May 2018	1150	985	29	705	0	705	3612.88	5096	13023	711
	Jun 2018	1400	1077	46	760	0	760	3615.33	5116	13274	768
	Jul 2018	300	291	55	860	0	860	3609.67	5069	12697	879
	Aug 2018	290	403	53	900	0	900	3604.53	5029	12188	918
	Sep 2018	250	357	47	670	0	670	3601.09	5002	11855	681
<b>WY 2018</b>		<b>6006</b>	<b>6360</b>	<b>395</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9055</b>
	Oct 2018	380	426	32	640	0	640	3598.70	4984	11627	646
	Nov 2018	412	433	31	640	0	640	3596.37	4966	11407	640
	Dec 2018	363	424	24	720	0	720	3593.17	4943	11110	725
	Jan 2019	361	421	7	860	0	860	3588.63	4909	10697	871
	Feb 2019	393	428	8	750	0	750	3585.21	4885	10392	754
	Mar 2019	665	588	13	800	0	800	3582.84	4868	10185	805
	Apr 2019	1056	860	20	710	0	710	3584.21	4878	10305	718
	May 2019	2343	2018	25	710	0	710	3597.28	4973	11493	716
	Jun 2019	2666	2166	43	750	0	750	3610.34	5075	12764	758
	Jul 2019	1091	997	54	850	0	850	3611.19	5082	12850	869
	Aug 2019	500	622	54	900	0	900	3608.13	5057	12543	918
	Sep 2019	408	557	49	670	0	670	3606.62	5045	12393	681
<b>WY 2019</b>		<b>10637</b>	<b>9941</b>	<b>360</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9100</b>
	Oct 2019	512	574	34	640	0	640	3605.69	5038	12301	646
	Nov 2019	473	536	32	640	0	640	3604.40	5028	12175	640
	Dec 2019	363	493	26	720	0	720	3601.99	5009	11941	725
	Jan 2020	361	473	8	860	0	860	3598.16	4980	11576	871
	Feb 2020	393	458	8	750	0	750	3595.20	4958	11298	754

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
H	Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
I	May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
S	Jun 2017	749	17	53	864	14.5	29	864	648	1079.52	9971
T	Jul 2017	850	89	66	885	14.4	31	885	646	1079.03	9931
O	Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
R	Sep 2017	663	70	58	600	10.1	21	591	662	1082.05	10182
<b>WY 2017</b>		<b>9000</b>	<b>995</b>	<b>541</b>	<b>8620</b>		<b>236</b>	<b>8591</b>			
I	Oct 2017	640	44	43	596	9.7	23	595	663	1082.30	10202
C	Nov 2017	630	40	42	731	12.3	16	731	656	1080.95	10090
A	Dec 2017	740	43	37	594	9.7	12	593	664	1082.52	10221
L	Jan 2018	860	76	30	449	7.3	8	448	692	1087.50	10642
*	Feb 2018	730	62	28	687	12.4	12	686	696	1088.21	10703
	Mar 2018	800	56	32	898	14.6	21	898	690	1087.19	10615
	Apr 2018	705	48	39	1048	17.6	22	1048	668	1083.24	10281
	May 2018	705	31	44	1021	16.6	26	1021	647	1079.23	9947
	Jun 2018	760	12	53	913	15.3	32	913	633	1076.64	9735
	Jul 2018	860	81	65	882	14.3	35	882	630	1076.16	9696
	Aug 2018	900	112	70	770	12.5	33	770	639	1077.76	9826
	Sep 2018	670	105	57	774	13.0	26	774	634	1076.81	9749
<b>WY 2018</b>		<b>9000</b>	<b>710</b>	<b>540</b>	<b>9364</b>		<b>268</b>	<b>9360</b>			
	Oct 2018	640	69	42	582	9.5	27	582	637	1077.48	9803
	Nov 2018	640	61	42	728	12.2	20	728	632	1076.45	9719
	Dec 2018	720	50	36	652	10.6	13	652	636	1077.24	9784
	Jan 2019	860	78	30	619	10.1	12	619	653	1080.40	10044
	Feb 2019	750	93	27	685	12.3	14	685	660	1081.71	10154
	Mar 2019	800	56	31	1055	17.2	21	1055	645	1078.88	9918
	Apr 2019	710	48	38	1059	17.8	23	1059	623	1074.72	9578
	May 2019	710	31	43	967	15.7	27	967	605	1071.27	9301
	Jun 2019	750	12	51	880	14.8	33	880	592	1068.88	9111
	Jul 2019	850	81	63	839	13.7	36	839	592	1068.79	9104
	Aug 2019	900	112	67	740	12.0	34	740	602	1070.80	9263
	Sep 2019	670	105	56	747	12.6	27	747	599	1070.16	9212
<b>WY 2019</b>		<b>9000</b>	<b>796</b>	<b>525</b>	<b>9554</b>		<b>289</b>	<b>9554</b>			
	Oct 2019	640	69	41	510	8.3	28	510	607	1071.69	9334
	Nov 2019	640	61	41	670	11.3	21	670	605	1071.32	9305
	Dec 2019	720	50	35	594	9.7	14	594	613	1072.81	9424
	Jan 2020	860	78	29	607	9.9	14	607	630	1076.15	9694
	Feb 2020	750	93	27	663	11.5	17	663	638	1077.71	9822

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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)
*	Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
H	Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
I	May 2017	917	-13	22	846	0	846	13.8	643.74	1719
S	Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
T	Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
O	Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
R	Sep 2017	600	-11	18	656	0	656	11.0	639.47	1603
<b>WY 2017</b>		<b>8620</b>	<b>-183</b>	<b>199</b>	<b>8261</b>	<b>0</b>	<b>8261</b>			
I	Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
C	Nov 2017	731	-18	11	595	0	595	10.0	640.07	1619
A	Dec 2017	594	-16	9	552	0	552	9.0	640.68	1636
L	Jan 2018	449	2	10	437	0	437	7.1	640.86	1641
*	Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
	Mar 2018	898	-17	13	886	0	886	14.4	642.50	1685
	Apr 2018	1048	-20	17	997	0	997	16.8	643.00	1699
	May 2018	1021	-12	22	987	0	987	16.0	643.00	1699
	Jun 2018	913	-15	25	900	0	900	15.1	642.00	1671
	Jul 2018	882	-15	25	855	0	855	13.9	641.50	1658
	Aug 2018	770	-12	23	735	0	735	12.0	641.50	1658
	Sep 2018	774	-12	18	784	0	784	13.2	640.01	1617
<b>WY 2018</b>		<b>9364</b>	<b>-142</b>	<b>197</b>	<b>9009</b>	<b>0</b>	<b>9009</b>			
	Oct 2018	582	-4	15	746	0	746	12.1	633.00	1434
	Nov 2018	728	-12	10	654	0	654	11.0	635.00	1486
	Dec 2018	652	-12	9	534	0	534	8.7	638.71	1583
	Jan 2019	619	-19	10	507	0	507	8.2	641.80	1666
	Feb 2019	685	-15	10	660	0	660	11.9	641.80	1666
	Mar 2019	1055	-17	13	991	0	991	16.1	643.05	1700
	Apr 2019	1059	-20	17	1024	0	1024	17.2	643.00	1699
	May 2019	967	-12	22	933	0	933	15.2	643.00	1699
	Jun 2019	880	-15	25	867	0	867	14.6	642.00	1671
	Jul 2019	839	-15	25	812	0	812	13.2	641.50	1658
	Aug 2019	740	-12	23	706	0	706	11.5	641.50	1658
	Sep 2019	747	-12	18	757	0	757	12.7	640.01	1617
<b>WY 2019</b>		<b>9554</b>	<b>-166</b>	<b>197</b>	<b>9190</b>	<b>0</b>	<b>9190</b>			
	Oct 2019	510	-4	15	675	0	675	11.0	633.00	1434
	Nov 2019	670	-12	10	596	0	596	10.0	635.00	1486
	Dec 2019	594	-12	9	476	0	476	7.7	638.71	1583
	Jan 2020	607	-19	10	495	0	495	8.1	641.80	1666
	Feb 2020	663	-15	10	638	0	638	11.1	641.80	1666

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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)
*	Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
H	Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
I	May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
S	Jun 2017	853	0	15	689	11.6	57	79	448.41	588	126	2.1
T	Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
O	Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
R	Sep 2017	656	16	15	481	8.1	56	134	447.17	564	104	1.7
<b>WY 2017</b>		<b>8261</b>	<b>220</b>	<b>140</b>	<b>6204</b>		<b>664</b>	<b>1406</b>			<b>1513</b>	
I	Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
C	Nov 2017	595	12	9	349	5.9	89	127	447.86	577	99	1.7
A	Dec 2017	552	17	7	335	5.5	100	144	446.80	557	109	1.8
L	Jan 2018	437	4	6	329	5.3	29	90	445.81	539	125	2.0
*	Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
	Mar 2018	886	26	9	702	11.4	64	147	447.50	571	195	3.2
	Apr 2018	997	16	11	719	12.1	102	174	447.50	571	175	2.9
	May 2018	987	15	13	662	10.8	105	186	448.70	593	119	1.9
	Jun 2018	900	13	16	709	11.9	102	73	448.70	593	127	2.1
	Jul 2018	855	21	17	680	11.1	105	74	448.00	580	135	2.2
	Aug 2018	735	23	17	601	9.8	105	33	447.50	571	104	1.7
	Sep 2018	784	17	15	524	8.8	102	151	447.50	570	96	1.6
<b>WY 2018</b>		<b>9009</b>	<b>175</b>	<b>139</b>	<b>6516</b>		<b>984</b>	<b>1438</b>			<b>1494</b>	
	Oct 2018	746	23	12	475	7.7	85	190	447.50	571	65	1.1
	Nov 2018	654	16	9	400	6.7	69	187	447.50	571	99	1.7
	Dec 2018	534	18	7	305	5.0	69	185	446.50	552	109	1.8
	Jan 2019	507	21	6	318	5.2	79	121	446.50	552	138	2.2
	Feb 2019	660	11	8	485	8.7	51	121	446.50	552	160	2.9
	Mar 2019	991	7	9	718	11.7	69	189	446.70	555	198	3.2
	Apr 2019	1024	16	11	710	11.9	89	184	448.70	593	175	2.9
	May 2019	933	15	13	642	10.4	90	189	448.70	593	104	1.7
	Jun 2019	867	13	16	683	11.5	89	79	448.70	593	105	1.8
	Jul 2019	812	21	17	647	10.5	90	79	448.00	580	111	1.8
	Aug 2019	706	23	17	589	9.6	90	29	447.50	571	100	1.6
	Sep 2019	757	17	15	509	8.6	89	152	447.50	570	89	1.5
<b>WY 2019</b>		<b>9190</b>	<b>200</b>	<b>139</b>	<b>6482</b>		<b>958</b>	<b>1706</b>			<b>1453</b>	
	Oct 2019	675	23	12	490	8.0	48	141	447.50	571	74	1.2
	Nov 2019	596	16	9	408	6.9	48	141	447.50	571	116	1.9
	Dec 2019	476	18	7	313	5.1	48	141	446.50	552	131	2.1
	Jan 2020	495	21	6	313	5.1	86	106	446.50	552	134	2.2
	Feb 2020	638	11	8	479	8.3	57	100	446.50	552	155	2.7

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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
*	Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
H	Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
I	May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
S	Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
T	Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
O	Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
R	Sep 2017	600	10.1	1082.05	10182	51	440.10	976.1	230.7	66	384.8
<b>WY 2017</b>		<b>8620</b>							<b>3347.1</b>		
I	Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
C	Nov 2017	731	12.3	1080.95	10090	-113	435.01	996.0	287.9	63	393.6
A	Dec 2017	594	9.7	1082.52	10221	131	439.05	821.0	235.7	52	396.6
L	Jan 2018	449	7.3	1087.50	10642	421	442.14	834.0	176.5	51	392.9
*	Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
	Mar 2018	898	14.6	1087.19	10615	-88	438.39	1005.9	362.6	62	404.0
	Apr 2018	1048	17.6	1083.24	10281	-334	435.97	972.1	427.0	62	407.5
	May 2018	1021	16.6	1079.23	9947	-334	428.32	1478.0	393.4	95	385.2
	Jun 2018	913	15.3	1076.64	9735	-213	424.80	1539.0	350.8	100	384.1
	Jul 2018	882	14.3	1076.16	9696	-39	423.77	1539.0	342.4	100	388.3
	Aug 2018	770	12.5	1077.76	9826	130	424.49	1552.0	295.5	100	383.8
	Sep 2018	774	13.0	1076.81	9749	-77	425.29	1552.0	298.8	100	386.0
<b>WY 2018</b>		<b>9364</b>							<b>3674.5</b>		
	Oct 2018	582	9.5	1077.48	9803	55	430.00	1164.0	224.1	75	385.2
	Nov 2018	728	12.2	1076.45	9719	-84	431.50	1251.9	285.1	80	391.6
	Dec 2018	652	10.6	1077.24	9784	64	430.17	1158.1	250.7	74	384.7
	Jan 2019	619	10.1	1080.40	10044	260	432.36	808.0	245.0	51	395.9
	Feb 2019	685	12.3	1081.71	10154	109	433.55	820.0	275.4	52	402.2
	Mar 2019	1055	17.2	1078.88	9918	-236	431.75	904.0	427.3	57	404.9
	Apr 2019	1059	17.8	1074.72	9578	-340	426.07	1143.9	415.9	74	392.7
	May 2019	967	15.7	1071.27	9301	-278	420.91	1335.9	371.3	87	383.8
	Jun 2019	880	14.8	1068.88	9111	-190	417.02	1499.0	330.4	100	375.3
	Jul 2019	839	13.7	1068.79	9104	-7	416.28	1499.0	318.6	100	379.6
	Aug 2019	740	12.0	1070.80	9263	160	417.39	1514.5	278.2	100	375.9
	Sep 2019	747	12.6	1070.16	9212	-51	418.55	1510.9	282.9	100	378.6
<b>WY 2019</b>		<b>9554</b>							<b>3704.9</b>		
	Oct 2019	510	8.3	1071.69	9334	122	423.81	1132.3	197.0	75	385.9
	Nov 2019	670	11.3	1071.32	9305	-29	426.08	1216.3	256.6	80	383.1
	Dec 2019	594	9.7	1072.81	9424	119	425.42	1131.3	227.2	74	382.5
	Jan 2020	607	9.9	1076.15	9694	270	428.04	792.0	237.5	51	391.2
	Feb 2020	663	11.5	1077.71	9822	128	429.44	800.7	262.1	52	395.2

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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
*	Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
H	Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
I	May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
S	Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
T	Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
O	Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
R	Sep 2017	656	11.0	639.47	1603	-86	138.07	253.3	83.2	99	126.8
<b>WY 2017</b>		<b>8261</b>							<b>1061.4</b>		
I	Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
C	Nov 2017	595	10.0	640.07	1619	107	138.81	151.3	73.1	59	122.7
A	Dec 2017	552	9.0	640.68	1636	17	139.44	131.6	69.5	52	126.0
L	Jan 2018	437	7.1	640.86	1641	5	141.78	159.6	55.0	63	125.9
*	Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
	Mar 2018	886	14.4	642.50	1685	-18	137.72	189.2	111.0	74	125.3
	Apr 2018	997	16.8	643.00	1699	14	137.09	207.4	124.2	81	124.5
	May 2018	987	16.0	643.00	1699	0	137.43	204.0	123.3	80	125.0
	Jun 2018	900	15.1	642.00	1671	-27	135.51	255.0	112.3	100	124.8
	Jul 2018	855	13.9	641.50	1658	-14	134.73	255.0	106.4	100	124.5
	Aug 2018	735	12.0	641.50	1658	0	134.46	255.0	91.9	100	124.9
	Sep 2018	784	13.2	640.01	1617	-40	133.68	255.0	97.1	100	123.8
<b>WY 2018</b>		<b>9009</b>							<b>1121.6</b>		
	Oct 2018	746	12.1	633.00	1434	-183	130.59	207.3	89.8	81	120.4
	Nov 2018	654	11.0	635.00	1486	51	129.19	170.0	77.5	67	118.5
	Dec 2018	534	8.7	638.71	1583	97	132.25	167.8	65.1	66	122.0
	Jan 2019	507	8.2	641.80	1666	83	134.43	210.6	63.5	83	125.2
	Feb 2019	660	11.9	641.80	1666	0	136.73	187.6	82.6	74	125.2
	Mar 2019	991	16.1	643.05	1700	34	137.26	190.8	123.2	75	124.4
	Apr 2019	1024	17.2	643.00	1699	-1	136.07	255.0	127.6	100	124.6
	May 2019	933	15.2	643.00	1699	0	136.04	255.0	116.8	100	125.2
	Jun 2019	867	14.6	642.00	1671	-27	135.51	255.0	108.3	100	125.0
	Jul 2019	812	13.2	641.50	1658	-14	134.73	255.0	101.3	100	124.7
	Aug 2019	706	11.5	641.50	1658	0	134.46	255.0	88.3	100	125.1
	Sep 2019	757	12.7	640.01	1617	-40	133.68	255.0	93.9	100	124.0
<b>WY 2019</b>		<b>9190</b>							<b>1138.0</b>		
	Oct 2019	675	11.0	633.00	1434	-183	130.59	207.3	81.5	81	120.8
	Nov 2019	596	10.0	635.00	1486	51	129.19	170.0	70.8	67	118.9
	Dec 2019	476	7.7	638.71	1583	97	132.25	167.8	58.2	66	122.3
	Jan 2020	495	8.1	641.80	1666	83	133.85	230.3	62.1	90	125.3
	Feb 2020	638	11.1	641.80	1666	0	136.73	187.6	80.1	74	125.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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
*	Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
H	Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
I	May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
S	Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
T	Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
O	Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
R	Sep 2017	481	8.1	447.17	564	-21	81.08	120.0	33.8	100	70.2
<b>WY 2017</b>		<b>6204</b>							<b>434.1</b>		
I	Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
C	Nov 2017	349	5.9	447.86	577	30	81.65	90.0	24.1	75	69.2
A	Dec 2017	335	5.5	446.80	557	-20	81.55	92.9	22.5	77	67.0
L	Jan 2018	329	5.3	445.81	539	-18	80.05	117.1	22.8	98	69.2
*	Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
	Mar 2018	702	11.4	447.50	571	-19	76.06	104.5	46.8	87	66.6
	Apr 2018	719	12.1	447.50	571	0	74.89	120.0	47.2	100	65.7
	May 2018	662	10.8	448.70	593	23	75.47	120.0	43.7	100	65.9
	Jun 2018	709	11.9	448.70	593	0	76.05	120.0	47.2	100	66.6
	Jul 2018	680	11.1	448.00	580	-13	75.71	120.0	45.0	100	66.2
	Aug 2018	601	9.8	447.50	571	-9	75.13	120.0	39.3	100	65.5
	Sep 2018	524	8.8	447.50	570	0	74.89	120.0	34.1	100	65.0
<b>WY 2018</b>		<b>6516</b>							<b>436.5</b>		
	Oct 2018	475	7.7	447.50	571	0	76.19	91.9	31.3	77	65.9
	Nov 2018	400	6.7	447.50	571	0	75.83	99.0	26.0	83	65.1
	Dec 2018	305	5.0	446.50	552	-19	74.40	120.0	19.2	100	62.9
	Jan 2019	318	5.2	446.50	552	0	75.02	95.8	20.2	80	63.6
	Feb 2019	485	8.7	446.50	552	0	75.21	92.1	31.8	77	65.5
	Mar 2019	718	11.7	446.70	555	4	74.34	112.3	46.9	94	65.3
	Apr 2019	710	11.9	448.70	593	38	75.08	120.0	46.7	100	65.8
	May 2019	642	10.4	448.70	593	0	76.05	120.0	42.6	100	66.3
	Jun 2019	683	11.5	448.70	593	0	76.05	120.0	45.4	100	66.5
	Jul 2019	647	10.5	448.00	580	-13	75.71	120.0	42.7	100	66.1
	Aug 2019	589	9.6	447.50	571	-9	75.13	120.0	38.5	100	65.4
	Sep 2019	509	8.6	447.50	570	0	74.89	120.0	33.1	100	65.0
<b>WY 2019</b>		<b>6482</b>							<b>424.5</b>		
	Oct 2019	490	8.0	447.50	571	0	76.29	90.0	32.4	75	66.1
	Nov 2019	408	6.9	447.50	571	0	76.14	93.0	26.7	78	65.5
	Dec 2019	313	5.1	446.50	552	-19	74.40	120.0	19.7	100	63.0
	Jan 2020	313	5.1	446.50	552	0	75.02	95.8	19.9	80	63.6
	Feb 2020	479	8.3	446.50	552	0	75.21	92.1	31.3	77	65.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## March 2018 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
* 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>
H Apr 2017	270	102	15	22	6	0
I May 2017	291	105	43	72	17	4
S Jun 2017	346	102	40	66	8	6
T Jul 2017	399	71	35	13	18	8
O Aug 2017	421	56	34	0	22	9
R Sep 2017	306	56	35	33	22	6
<b>Summer 2017</b>	<b>2033</b>	<b>492</b>	<b>202</b>	<b>207</b>	<b>93</b>	<b>33</b>
I Oct 2017	294	42	30	37	21	7
C Nov 2017	288	55	12	14	8	7
A Dec 2017	339	68	27	33	19	6
L Jan 2018	394	68	17	21	12	6
* Feb 2018		60	9	12	3	5
Mar 2018	326	39	11	13	7	5
<b>Winter 2018</b>	<b>1641</b>	<b>332</b>	<b>106</b>	<b>130</b>	<b>69</b>	<b>35</b>
Apr 2018	286	37	19	27	14	6
May 2018	286	60	21	30	18	7
Jun 2018	309	58	16	23	14	8
Jul 2018	349	37	23	29	14	10
Aug 2018	361	37	23	28	14	8
Sep 2018	267	36	19	24	12	7
<b>Summer 2018</b>	<b>1858</b>	<b>265</b>	<b>121</b>	<b>162</b>	<b>87</b>	<b>44</b>
Oct 2018	253	37	12	15	8	7
Nov 2018	252	36	4	5	3	6
Dec 2018	281	37	7	9	5	6
Jan 2019	334	37	7	9	5	6
Feb 2019	288	33	6	9	5	5
Mar 2019	306	37	8	11	6	5
<b>Winter 2019</b>	<b>1714</b>	<b>218</b>	<b>44</b>	<b>58</b>	<b>33</b>	<b>35</b>
Apr 2019	271	36	11	17	10	5
May 2019	275	61	51	70	23	7
Jun 2019	299	52	42	56	22	9
Jul 2019	344	37	31	38	21	10
Aug 2019	363	37	34	40	21	8
Sep 2019	269	36	33	40	20	7
<b>Summer 2019</b>	<b>1189</b>	<b>185</b>	<b>135</b>	<b>181</b>	<b>77</b>	<b>30</b>
Oct 2019	256	37	20	25	13	7
Nov 2019	256	35	16	20	10	6
Dec 2019	286	37	26	32	16	6
Jan 2020	340	37	20	25	13	5
Feb 2020	295	34	12	15	8	5

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2018 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	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont	
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF	
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****											
Mar 2018	768	282	450	10976	12477	16674	29151	418	117	141	675	10976	16674	28325	1500	898	0	31.1	
Apr 2018	770	291	455	11358	12874	16762	29636	416	127	138	681	11358	16762	28801	1500	1048	0	30.6	
May 2018	753	314	460	11531	13058	17096	30154	392	148	121	661	11531	17096	29288	1500	1021	0	30.7	
Jun 2018	707	267	420	11299	12693	17430	30123	336	90	43	469	11299	17430	29198	1500	913	0	31.0	
Jul 2018	489	172	436	11048	12146	17642	29789	104	-20	4	88	11048	17642	28778	1500	882	0	30.4	
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****											
Aug 2018	403	186	492	11625	12707	17681	30389	403	186	492	1082	11625	17681	30389	1500	770	0	29.9	
Sep 2018	429	219	536	12134	13318	17551	30869	429	219	536	1184	12134	17551	30869	2270	774	0	29.3	
Oct 2018	483	246	553	12467	13749	17628	31378	483	246	553	1282	12467	17628	31378	3040	582	0	28.9	
Nov 2018	532	253	549	12695	14029	17574	31603	532	253	549	1334	12695	17574	31603	3810	728	0	28.6	
Dec 2018	582	235	546	12915	14279	17658	31937	582	235	546	1364	12915	17658	31937	4580	652	0	28.4	
Jan 2019	650	233	547	13212	14642	17593	32235	650	233	547	1430	13212	17593	32235	5350	619	0	28.3	
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2019	650	233	547	13212	14642	17593	32235	366	233	547	1146	13212	17593	31951	5350	619	0	28.3	
Feb 2019	713	231	551	13625	15119	17333	32452	427	231	551	1209	13625	17333	32166	1500	685	0	28.0	
Mar 2019	762	227	544	13930	15464	17223	32687	474	227	544	1246	13930	17223	32399	1500	1055	0	27.7	
Apr 2019	766	216	487	14137	15606	17459	33065	473	216	487	1176	14137	17459	32772	1500	1059	0	27.7	
May 2019	737	178	392	14017	15324	17799	33122	438	178	375	991	14017	17799	32807	1500	967	0	28.9	
Jun 2019	668	136	243	12829	13876	18076	31952	359	136	187	682	12829	18076	31588	1500	880	0	30.4	
Jul 2019	436	24	148	11558	12166	18266	30432	110	18	35	163	11558	18266	29987	1500	839	0	30.5	
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****											
Aug 2019	344	8	174	11472	11998	18273	30271	344	8	174	526	11472	18273	30271	1500	740	0	30.2	
Sep 2019	370	55	226	11779	12429	18114	30543	370	55	226	650	11779	18114	30543	2270	747	0	29.8	
Oct 2019	424	124	254	11929	12732	18165	30897	424	124	254	803	11929	18165	30897	3040	510	0	29.6	
Nov 2019	472	151	248	12021	12893	18043	30936	472	151	248	872	12021	18043	30936	3810	670	0	29.4	
Dec 2019	521	170	253	12147	13091	18072	31163	521	170	253	944	12147	18072	31163	4580	594	0	29.3	
Jan 2020	588	226	263	12381	13458	17953	31412	588	226	263	1078	12381	17953	31412	5350	607	0	29.1	
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2020	588	226	263	12381	13458	17953	31412	324	226	55	605	12381	17953	30939	5350	607	0	29.1	
Feb 2020	649	266	276	12746	13938	17683	31621	384	266	67	717	12746	17683	31146	1500	663	0	28.9	

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