

**May 24-Month Study**  
**Date: May 10, 2018**

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

**Current Reservoir Status**

Reservoir	April Inflow (unregulated) (acre-feet)	Percent of Average (%)	May 9, Midnight Elevation (feet)	May 9, Midnight Reservoir Storage (acre-feet)
Fontenelle	101,000	118	6,476.68	149,000
Flaming Gorge	121,000	91	6,026.03	3,198,000
Blue Mesa	48,000	62	7,478.33	494,000
Navajo	70,000	41	6,049.61	1,221,000
Powell	382,000	36	3,609.35	12,665,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this May 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, the Lake Powell's operational tier in water year 2018 is the Upper Elevation Balancing Tier. With an 8.23 million acre-feet (maf) release from Lake Powell in water year 2018, the April 2018 24-Month Study projected the end of water year elevation at Lake Powell to be above 3,575 feet, and the end of water year elevation at Lake Mead to be below 1,075 feet. Therefore, in accordance with Section 6.B.4 of the Interim Guidelines, Lake Powell operations shifted to balancing releases for the remainder of water year 2018. 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 May 24-Month Study projects a balancing release of 9.0 maf in water year 2018; however, the actual release in water year 2018 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 2018 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 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 6475 feet, which amounts to 41 percent of live storage capacity. Inflows for the month of April totaled 101,000 acre-feet (af), or 118 percent of average. Above average inflows are occurring and releases are being adjusted to keep the reservoir elevation low in anticipation of a large runoff. Releases are currently set at 2,400 cfs (05/08/2018).

The Colorado Basin River Forecast Center has forecasted spring and summer inflows that are above average. May, June and July forecasted inflow volumes amount to 235,000 af (144 percent of average), 350,000 af (117 percent of average), and 214,000 af (121 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., August 23, 2018. The meeting will be held at the Joint Powers Water Board in Green River, 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 set at 1,700 cfs with fluctuations for hydropower. Releases will likely be increasing to power plant capacity (4,600 cfs) when the spring peak releases is initiated, likely in later May.

Unregulated inflow into Flaming Gorge Reservoir during the month of April was 121,000 af, or 90 percent of average. The reservoir elevation is 6025.93 feet (85 percent of live capacity) and increasing.

The May final forecast for inflows for the next three months projects average to above average conditions: May, June and July forecasted inflow volumes at 280,000 af (114 percent of average), 375,000 af (96 percent of average), and 224,000 af (107 percent of average), respectively.

The May water supply forecast of the April through July unregulated inflow volume into Flaming Gorge Reservoir is 1.0 maf (102 percent of average). Current snowpack is at 99 percent of median.

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 Jed Parker at 801-524-3816.

Reclamation will be holding the Flaming Gorge Working Group meeting on Tuesday, August 28, 2018 at 11:00 a.m. at the DWR Office, 318 North Vernal Avenue, Vernal, Utah.

**Aspinall Unit Reservoirs** – Releases from Crystal Dam are approximately 1,650 cfs. Uncompahgre Valley Water Users Association is diverting approximately 1,000 cfs through the Gunnison Tunnel and flows through the Black Canyon are approximately 650 cfs. Blue Mesa Reservoir elevation is 7578.71 feet which corresponds to a storage content 492,000 af (59 percent of capacity).

The April unregulated inflow to Blue Mesa Reservoir was 48,056 af (62 percent of average). Unregulated Inflows to Blue Mesa for the next three months (May, June and July) are projected to be: 124,000 af (56 percent of average), 130,000 af (50 percent of average) and 48,000 af (41 percent of average), respectively. For water year 2018, the unregulated inflow volume is forecasted to be 576,000 af (60 percent of average) with 350,000 af (52 percent of average) forecasted unregulated inflow during the April through July period. 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.

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** – On May 3<sup>rd</sup>, the release is 650 cfs. The observed inflow is 980 cfs. The reservoir elevation is 6049.7 feet (1,221,400 af), and is 72 percent full (54 percent of active storage). The San Juan River at Four Corners USGS gage is at 790 cfs. The Animas River at Farmington USGS gage is at 260 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 3.4 inches of SWE above Navajo, which is 18 percent of the median for this time of year. The snowpack peaked at 11.1 inches on March 28th.

Preliminary modified unregulated inflow into Navajo in April was 70,194 af, which was 41 percent of average for the month. The most probable modified-unregulated inflow forecast for May at Navajo is 92,000 af (34 percent of average), for June is 23,000 af (10 percent of average), and for July is 15,000 af (23 percent of average).

The April-July runoff forecasts are as follows:

Min Prob: 147,000 af (20 percent of average, an increase of 2,000 af since the last forecast)

Most Prob: 200,000 af (27 percent of average, a decrease of 20,000 af since the last forecast)

Max Prob: 280,000 af (38 percent of average, a decrease of 45,000 af since the last forecast)

A short release of 2,000 cfs for 2 hours was requested by the NM Department of Game and Fish to aid in a habitat project in the tailwater reach below Navajo Dam. One of the purposes of this project is to curb sediment input entering the San Juan River in this area. Reclamation plans to comply with this request by ramping up beginning in the evening on June 5th, peaking at 2,000 cfs for two hours mid-day on June 6th, and ramping down by the afternoon of June 7th. Total release over base releases will total approximately 2300 af. Reclamation is coordinating with state and local agencies during this event for awareness and safety. Releases for the remainder of the runoff season will be made to maintain the minimum target baseflow in the critical habitat reach and will likely range from 300 to 700 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 Tuesday, August 21<sup>st</sup> 2018, at 1p.m. at the Farmington Civic Center, Farmington, NM.

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

#### **Current Status**

The Department of the Interior is conducting the first experimental flow at Glen Canyon Dam since implementing its Long-Term Experimental and Management Plan (LTEMP). The goal is to provide enhanced habitat for the lifecycle of aquatic insects that are the primary food source for fish in the Colorado River.

Experiments under LTEMP consist of four different flow regimes: high flows, bug flows, trout management flows, and low summer flows. Collaborative discussions among technical experts resulted in a decision to begin this first experiment on May 1 and continue through August 31, 2018. It will slightly modify the schedule and flow rates of water releases from Lake Powell through Glen Canyon Dam, Arizona. The normally scheduled monthly and weekly release volumes will not be affected.

Flows during the experiment will include steady weekend water releases with routine hydropower production flows on weekdays that include normal hourly changes in release rates. Those steady weekend flows are expected to provide favorable conditions for aquatic insects to lay and cement their eggs to rocks, vegetation, and other materials near the river's edge. Steady weekend flows will be relatively low, within four inches of typical weekday low water levels. It is unlikely casual recreational river users will notice the changes in water levels.

Insects expected to benefit from this experiment are an important food source for many species of fish, birds, and bats in the canyon. Beyond expected resource benefits, this experiment will also provide scientific information that will be used in future decision making.

The unregulated inflow volume to Lake Powell during April was 382 thousand acre-feet (kaf) (36 percent of average). The release volume from Glen Canyon Dam in April was 705 kaf. The end of April elevation and storage of Lake Powell were 3,609 ft (91 feet from full pool) and 12.7 maf (52 percent of full capacity), respectively. The reservoir is projected to decline each month this water year with some reprieve during the smaller than normal spring runoff period.

#### **Current Operations**

The operating tier for water year 2018 was established in August 2017 as the Upper Elevation Balancing Tier. The April 2018 24-Month Study established that Lake Powell operations will be governed by balancing for the remainder of water year 2018. 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 May 24-Month Study projects a balancing release of 9.0 maf in water year 2018; the actual release in water year 2018, 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 2018 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, 2018.

In May, the release volume will be approximately 705 kaf, with fluctuations anticipated between about 8,060 cfs in the nighttime to about 14,260 cfs in the daytime and consistent with the Glen Canyon Dam, Record of Decision (dated December 2016). The anticipated release volume for June is 760 kaf with daily fluctuations between approximately 8,850 cfs and 16,450 cfs. The expected release for July is 860 kaf with daily fluctuations between approximately 10,180 cfs and 18,180 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 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 May 2, 2018, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume will be 3.0 maf (42 percent of average based on the period 1981-2010). The forecast decreased by 100 kaf since last month. At this point in the season, there is still uncertainty regarding this year's water supply and the total inflow to Lake Powell. The spring runoff forecast ranges from a minimum probable of 2.1 maf (29 percent of average) to a maximum probable of 4.2 maf (58 percent of average). There is 10% chance that inflows could be higher than the maximum probable and a 10% chance they could be lower than the minimum probable.

As determined in the August 2017 24-Month Study, and documented in the 2018 Annual Operating Plan, Lake Powell's operations in water year 2018 will be governed by the Upper Elevation Balancing Tier. Starting with an 8.23 million acre-feet (maf) release from Lake Powell in water year 2018, the April 2018 24-Month Study projected the end of water year elevation at Lake Powell to be above 3,575 feet and the end of water year elevation at Lake Mead to be below 1,075 feet. Therefore, in accordance with Section 6.B.4 of the Interim Guidelines, Lake Powell operations shifted to balancing releases for the remainder of water year 2018. 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 May most probable inflow forecast, the annual release volume from Lake Powell during water year 2018 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 is 10% 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 2018 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 2018 will be updated each month throughout the remainder of the water year.

Based on the current forecast, the May [24-Month Study](#) projects Lake Powell elevation will end water year 2018 near 3,598 feet with approximately 11.59 maf in storage (48 percent 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 3,589 feet and 10.7 maf (44 percent capacity), respectively. Under the maximum probable inflow scenario, updated in April, the projected end of water year elevation and storage are 3616 feet and 13.3 maf (55 percent 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 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 5.6 maf (52 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 29.0 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 April minimum and maximum probable inflow forecasts and modeling, the range of end of water year 2018 total system capacity is approximately 27.8 maf (47 percent of capacity) to 31.0 maf (52 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		apr	Forecast		Outlook		
:		jan	feb	mar	apr	%Avg	may	jun	jul	apr-jul %Avg
GLDA3:	Lake Powell	262	269	332	382	36%:	1000/	1100/	518/	3000/: 42%
GBRW4:	Fontenelle	42	38	58	101	118%:	235/	350/	214/	900/: 124%
GRNU1:	Flaming Gorge	52	57	86	121	91%:	280/	375/	224/	1000/: 102%
BMDC2:	Blue Mesa	20	23	28	48	62%:	124/	130/	48/	350/: 52%
MPSC2:	Morrow Point	22	24	29	54	61%:	137/	135/	49/	375/: 51%
CLSC2:	Crystal	25	27	33	60	60%:	152/	151/	52/	415/: 50%
TPIC2:	Taylor Park	4.2	3.8	4.6	8.5	97%:	23/	25/	10/	66/: 67%
VCRC2:	Vallecito	2.7	2.9	3.9	14.9	64%:	25/	13/	7/	60/: 31%
NVRN5:	Navajo	12.2	14.6	24	70	41%:	92/	23/	15/	200/: 27%
LEMC2:	Lemon	0.40	0.38	0.61	3.1	55%:	5/	3/	1/	12/: 22%
MPHC2:	McPhee	1.68	2.1	2.9	9.2	13%:	30/	12/	5/	56/: 19%
RBSC2:	Ridgway	3.4	3.1	3.4	5.3	49%:	12/	15/	8/	40/: 40%

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2017	430	1	54	373	427	6472.55	129
H	Jun 2017	732	2	74	469	543	6502.49	317
I	Jul 2017	332	3	88	230	319	6503.83	328
S	Aug 2017	102	2	95	61	156	6496.34	271
T	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>		
O	Oct 2017	73	1	80	0	80	6494.03	255
R	Nov 2017	62	1	78	0	78	6491.65	238
I	Dec 2017	46	1	72	8	80	6486.39	204
C	Jan 2018	42	1	79	1	80	6479.83	165
A	Feb 2018	38	0	72	0	72	6472.86	131
L	Mar 2018	58	0	16	56	71	6469.78	117
*	Apr 2018	101	1	83	4	87	6472.76	130
	May 2018	235	1	101	54	154	6487.30	211
	Jun 2018	350	2	105	130	235	6503.15	323
	Jul 2018	214	3	99	90	189	6505.95	345
	Aug 2018	80	2	85	0	85	6505.04	338
	Sep 2018	47	2	71	0	71	6501.76	312
<b>WY 2018</b>		<b>1347</b>	<b>15</b>	<b>940</b>	<b>344</b>	<b>1283</b>		
	Oct 2018	49	1	73	0	73	6498.45	287
	Nov 2018	42	1	71	0	71	6494.42	258
	Dec 2018	32	1	73	0	73	6488.19	216
	Jan 2019	30	1	73	0	73	6481.09	173
	Feb 2019	28	1	66	0	66	6473.37	134
	Mar 2019	53	0	73	0	73	6468.53	113
	Apr 2019	85	1	74	0	74	6471.12	124
	May 2019	164	1	99	11	110	6481.77	177
	Jun 2019	299	2	102	78	181	6499.25	293
	Jul 2019	178	3	101	24	125	6505.68	343
	Aug 2019	77	2	85	0	85	6504.32	332
	Sep 2019	46	2	77	0	77	6500.11	300
<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	6496.60	274
	Nov 2019	42	1	68	0	68	6492.87	247
	Dec 2019	32	1	70	0	70	6487.01	209
	Jan 2020	30	1	70	0	70	6480.27	168
	Feb 2020	28	0	66	0	66	6472.46	130
	Mar 2020	53	0	70	0	70	6468.27	112
	Apr 2020	85	1	68	0	68	6472.25	129

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
*	May 2017	582	580	8	278	171	449	129	6026.15	3203	857
H	Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
I	Jul 2017	387	374	14	180	48	228	142	6034.61	3531	315
S	Aug 2017	120	174	13	143	0	143	143	6035.05	3548	173
T	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>
O	Oct 2017	88	95	8	107	0	107	140	6033.17	3473	151
R	Nov 2017	82	98	4	139	0	139	138	6032.07	3430	166
I	Dec 2017	52	86	2	174	0	174	135	6029.85	3343	197
C	Jan 2018	52	90	2	175	0	175	131	6027.65	3259	208
A	Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
L	Mar 2018	86	99	3	106	0	106	128	6025.65	3184	178
*	Apr 2018	121	108	5	101	0	101	128	6025.69	3186	277
	May 2018	280	199	8	141	0	141	130	6026.99	3234	511
	Jun 2018	375	260	10	170	0	170	133	6029.02	3311	520
	Jul 2018	224	199	14	108	0	108	136	6030.95	3386	160
	Aug 2018	90	95	13	108	0	108	135	6030.32	3361	124
	Sep 2018	56	80	11	104	0	104	134	6029.43	3327	114
	<b>WY 2018</b>	<b>1563</b>	<b>1499</b>	<b>81</b>	<b>1588</b>	<b>1</b>	<b>1589</b>				<b>2801</b>
	Oct 2018	60	83	7	108	0	108	133	6028.64	3297	130
	Nov 2018	51	80	3	104	0	104	132	6027.94	3270	131
	Dec 2018	35	76	2	108	0	108	130	6027.09	3238	133
	Jan 2019	40	83	2	108	0	108	129	6026.42	3213	133
	Feb 2019	45	83	2	97	0	97	129	6026.00	3197	125
	Mar 2019	102	123	3	108	0	108	129	6026.32	3209	184
	Apr 2019	134	122	5	104	0	104	130	6026.65	3222	319
	May 2019	245	191	8	170	0	170	130	6026.99	3234	702
	Jun 2019	390	271	10	141	0	141	135	6030.01	3349	561
	Jul 2019	210	158	14	100	0	100	136	6031.10	3392	200
	Aug 2019	89	97	13	100	0	100	136	6030.71	3377	125
	Sep 2019	55	86	11	97	0	97	135	6030.16	3355	116
	<b>WY 2019</b>	<b>1455</b>	<b>1453</b>	<b>80</b>	<b>1343</b>	<b>0</b>	<b>1343</b>				<b>2859</b>
	Oct 2019	59	84	7	100	0	100	134	6029.57	3332	132
	Nov 2019	51	77	3	97	0	97	133	6028.99	3310	128
	Dec 2019	35	73	2	100	0	100	132	6028.26	3282	125
	Jan 2020	40	80	2	100	0	100	131	6027.72	3262	125
	Feb 2020	45	82	2	93	0	93	131	6027.38	3249	121
	Mar 2020	102	120	3	100	0	100	131	6027.81	3265	177
	Apr 2020	134	116	5	164	0	164	129	6026.46	3214	379

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 2018 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* May 2017	30	19	9318.55	84
H Jun 2017	62	45	9327.76	102
I Jul 2017	24	26	9326.95	100
S Aug 2017	12	25	9320.31	88
T Sep 2017	8	18	9314.58	77
<b>WY 2017</b>	<b>179</b>	<b>173</b>		
O Oct 2017	8	8	9314.93	78
R Nov 2017	6	6	9315.09	78
I Dec 2017	4	6	9313.84	76
C Jan 2018	4	6	9312.64	74
A Feb 2018	4	6	9311.50	72
L Mar 2018	5	6	9310.51	71
* Apr 2018	8	7	9311.18	72
May 2018	23	10	9318.91	85
Jun 2018	25	15	9324.36	95
Jul 2018	10	18	9319.83	87
Aug 2018	7	15	9315.08	78
Sep 2018	6	14	9309.93	70
<b>WY 2018</b>	<b>110</b>	<b>118</b>		
Oct 2018	6	6	9309.73	69
Nov 2018	5	5	9309.85	70
Dec 2018	5	5	9309.81	70
Jan 2019	4	5	9309.55	69
Feb 2019	4	4	9309.24	69
Mar 2019	4	5	9309.04	68
Apr 2019	9	10	9308.24	67
May 2019	28	16	9316.04	80
Jun 2019	42	21	9327.22	101
Jul 2019	20	24	9325.50	97
Aug 2019	10	20	9320.62	88
Sep 2019	7	15	9316.35	80
<b>WY 2019</b>	<b>144</b>	<b>134</b>		
Oct 2019	7	7	9316.15	80
Nov 2019	5	5	9316.18	80
Dec 2019	5	5	9315.88	80
Jan 2020	4	5	9315.39	79
Feb 2020	4	5	9314.74	78
Mar 2020	4	8	9312.62	74
Apr 2020	9	8	9313.08	75

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2017	244	233	1	151	65	293	7491.98	597
H	Jun 2017	392	373	1	139	35	175	7515.35	793
I	Jul 2017	135	137	2	113	0	110	7518.20	819
S	Aug 2017	84	96	1	111	0	111	7516.38	802
T	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>		
O	Oct 2017	37	37	1	102	0	102	7500.64	667
R	Nov 2017	32	32	0	40	0	40	7499.68	659
I	Dec 2017	25	27	0	93	0	93	7491.44	593
C	Jan 2018	20	22	0	60	0	60	7486.51	554
A	Feb 2018	23	25	0	32	0	32	7485.54	547
L	Mar 2018	28	29	0	43	0	43	7483.73	534
*	Apr 2018	48	47	1	82	0	82	7478.94	498
	May 2018	124	111	1	76	0	76	7483.60	533
	Jun 2018	130	120	1	74	0	74	7489.44	577
	Jul 2018	48	56	1	79	0	79	7486.32	553
	Aug 2018	33	41	1	79	0	79	7481.15	514
	Sep 2018	28	36	1	69	0	69	7476.48	481
	<b>WY 2018</b>	<b>576</b>	<b>584</b>	<b>8</b>	<b>828</b>	<b>0</b>	<b>828</b>		
	Oct 2018	32	32	0	40	0	40	7475.20	472
	Nov 2018	28	28	0	14	0	14	7477.17	486
	Dec 2018	26	26	0	15	0	15	7478.67	496
	Jan 2019	24	25	0	15	0	15	7480.05	506
	Feb 2019	22	23	0	13	0	13	7481.37	516
	Mar 2019	36	36	0	16	0	16	7484.04	536
	Apr 2019	77	78	1	36	0	36	7489.50	577
	May 2019	221	208	1	152	0	152	7496.48	633
	Jun 2019	261	240	1	91	0	91	7513.96	781
	Jul 2019	117	120	2	99	0	99	7516.14	800
	Aug 2019	63	73	1	108	0	108	7512.00	763
	Sep 2019	38	46	1	107	0	107	7504.73	701
	<b>WY 2019</b>	<b>946</b>	<b>935</b>	<b>9</b>	<b>707</b>	<b>0</b>	<b>707</b>		
	Oct 2019	38	39	1	66	0	66	7501.42	673
	Nov 2019	31	31	0	56	0	56	7498.34	648
	Dec 2019	26	26	0	95	0	95	7489.71	579
	Jan 2020	24	25	0	77	0	77	7482.86	527
	Feb 2020	22	23	0	51	0	51	7479.07	499
	Mar 2020	36	40	0	27	0	27	7480.75	511
	Apr 2020	77	76	1	48	0	48	7484.49	539

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2017	263	293	19	312	203	0	312	7149.70	109
H	Jun 2017	411	175	19	195	184	0	193	7151.34	110
I	Jul 2017	139	110	4	114	37	0	111	7155.13	113
S	Aug 2017	86	111	2	113	0	0	115	7152.68	111
T	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>		
O	Oct 2017	38	102	1	103	105	0	105	7153.17	112
R	Nov 2017	34	40	1	41	42	0	42	7152.45	111
I	Dec 2017	26	93	1	94	94	0	94	7152.45	111
C	Jan 2018	22	60	2	62	62	0	63	7150.65	110
A	Feb 2018	24	32	1	33	34	0	34	7149.19	108
L	Mar 2018	29	43	1	44	49	0	49	7143.05	104
*	Apr 2018	54	82	6	87	79	0	79	7154.30	112
	May 2018	137	76	13	89	89	0	89	7153.73	112
	Jun 2018	135	74	5	79	79	0	79	7153.73	112
	Jul 2018	49	79	1	80	80	0	80	7153.73	112
	Aug 2018	36	79	3	82	82	0	82	7153.73	112
	Sep 2018	31	69	3	72	72	0	72	7153.73	112
	<b>WY 2018</b>	<b>615</b>	<b>828</b>	<b>39</b>	<b>866</b>	<b>866</b>	<b>0</b>	<b>868</b>		
	Oct 2018	34	40	3	43	43	0	43	7153.73	112
	Nov 2018	31	14	2	16	16	0	16	7153.73	112
	Dec 2018	28	15	2	17	17	0	17	7153.73	112
	Jan 2019	27	15	2	17	17	0	17	7153.73	112
	Feb 2019	25	13	3	16	16	0	16	7153.73	112
	Mar 2019	40	16	4	20	20	0	20	7153.73	112
	Apr 2019	88	36	11	47	47	0	47	7153.73	112
	May 2019	247	152	26	178	178	0	178	7153.73	112
	Jun 2019	281	91	20	111	111	0	111	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>1031</b>	<b>707</b>	<b>85</b>	<b>792</b>	<b>792</b>	<b>0</b>	<b>792</b>		
	Oct 2019	41	66	3	68	68	0	68	7153.73	112
	Nov 2019	33	56	2	58	58	0	58	7153.73	112
	Dec 2019	28	95	2	97	97	0	97	7153.73	112
	Jan 2020	27	77	2	79	79	0	79	7153.73	112
	Feb 2020	25	51	3	54	54	0	54	7153.73	112
	Mar 2020	40	27	4	31	31	0	31	7153.73	112
	Apr 2020	88	48	11	59	59	0	59	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
*	May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
H	Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
I	Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
S	Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
T	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>
O	Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
R	Nov 2017	38	42	4	46	46	0	46	6749.89	16	1	46
I	Dec 2017	29	94	3	97	97	0	97	6749.23	16	1	98
C	Jan 2018	25	63	3	66	62	4	66	6747.99	16	1	65
A	Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	35
L	Mar 2018	33	49	4	52	53	0	53	6747.97	16	13	38
*	Apr 2018	60	79	6	84	84	0	84	6749.35	16	53	28
	May 2018	152	89	15	104	103	0	103	6753.04	17	62	41
	Jun 2018	151	79	16	95	95	0	95	6753.04	17	61	34
	Jul 2018	52	80	3	83	83	0	83	6753.04	17	63	20
	Aug 2018	37	82	1	83	83	0	83	6753.04	17	65	18
	Sep 2018	36	72	5	77	77	0	77	6753.04	17	55	22
	<b>WY 2018</b>	<b>682</b>	<b>868</b>	<b>68</b>	<b>935</b>	<b>909</b>	<b>25</b>	<b>934</b>			<b>430</b>	<b>499</b>
	Oct 2018	40	43	5	49	49	0	49	6753.04	17	30	19
	Nov 2018	35	16	5	21	21	0	21	6753.04	17	0	21
	Dec 2018	32	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2019	31	17	5	22	22	0	22	6753.04	17	0	22
	Feb 2019	29	16	4	19	19	0	19	6753.04	17	0	19
	Mar 2019	46	20	6	26	26	0	26	6753.04	17	5	21
	Apr 2019	101	47	12	60	60	0	60	6753.04	17	42	18
	May 2019	281	178	34	212	134	78	212	6753.04	17	62	150
	Jun 2019	315	111	34	145	130	15	145	6753.04	17	61	84
	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>1170</b>	<b>792</b>	<b>139</b>	<b>931</b>	<b>838</b>	<b>93</b>	<b>931</b>			<b>385</b>	<b>546</b>
	Oct 2019	47	68	6	74	74	0	74	6753.04	17	30	44
	Nov 2019	38	58	5	63	63	0	63	6753.04	17	0	63
	Dec 2019	32	97	5	101	101	0	101	6753.04	17	0	101
	Jan 2020	31	79	5	84	84	0	84	6753.04	17	0	84
	Feb 2020	29	54	4	58	58	0	58	6753.04	17	0	58
	Mar 2020	46	31	6	37	37	0	37	6753.04	17	5	32
	Apr 2020	101	59	12	71	71	0	71	6753.04	17	42	29

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
* May 2017	67	44	7658.86	109
H Jun 2017	72	57	7664.54	124
I Jul 2017	30	39	7660.94	115
S Aug 2017	19	33	7655.15	100
T Sep 2017	9	34	7644.31	74
<b>WY 2017</b>	<b>303</b>	<b>297</b>		
O Oct 2017	9	22	7638.22	61
R Nov 2017	5	2	7639.49	63
I Dec 2017	3	1	7640.27	65
C Jan 2018	3	0	7641.42	67
A Feb 2018	3	0	7642.57	70
L Mar 2018	4	0	7644.11	73
* Apr 2018	15	3	7649.29	85
May 2018	25	23	7649.92	87
Jun 2018	13	30	7642.50	70
Jul 2018	7	29	7631.48	47
Aug 2018	8	26	7619.66	29
Sep 2018	8	21	7608.10	16
<b>WY 2018</b>	<b>102</b>	<b>158</b>		
Oct 2018	10	12	7605.48	13
Nov 2018	7	2	7611.18	19
Dec 2018	6	2	7615.21	23
Jan 2019	5	2	7618.08	27
Feb 2019	5	2	7620.38	30
Mar 2019	9	2	7624.92	36
Apr 2019	23	2	7636.76	58
May 2019	71	31	7654.32	98
Jun 2019	70	44	7664.27	123
Jul 2019	29	42	7659.17	110
Aug 2019	20	38	7651.85	91
Sep 2019	17	30	7646.61	79
<b>WY 2019</b>	<b>274</b>	<b>207</b>		
Oct 2019	16	17	7645.84	77
Nov 2019	9	2	7648.79	84
Dec 2019	6	2	7650.63	88
Jan 2020	5	2	7652.06	92
Feb 2020	5	2	7653.24	95
Mar 2020	9	2	7655.86	101
Apr 2020	23	2	7663.96	123

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
* May 2017	261	45	195	4	25	228	6073.94	1536	323
H Jun 2017	231	46	166	5	40	259	6063.90	1398	449
I Jul 2017	49	11	48	4	43	38	6061.00	1361	88
S Aug 2017	30	5	38	4	35	36	6058.07	1323	55
T Sep 2017	9	2	33	3	23	42	6055.28	1289	48
<b>WY 2017</b>	<b>1157</b>	<b>160</b>	<b>991</b>	<b>28</b>	<b>198</b>	<b>785</b>			<b>1410</b>
O Oct 2017	38	2	49	2	8	32	6055.89	1296	52
R Nov 2017	19	0	16	1	0	25	6055.04	1286	41
I Dec 2017	10	0	9	1	0	24	6053.69	1270	40
C Jan 2018	12	0	9	1	0	23	6052.47	1255	40
A Feb 2018	14	0	11	1	1	18	6051.73	1246	33
L Mar 2018	24	2	19	2	6	21	6050.92	1236	30
* Apr 2018	70	13	46	2	20	38	6049.73	1222	42
May 2018	92	7	83	3	36	24	6051.45	1243	69
Jun 2018	23	3	37	4	51	26	6047.68	1199	65
Jul 2018	15	0	37	4	56	45	6041.63	1131	60
Aug 2018	29	0	47	3	47	45	6037.19	1083	60
Sep 2018	29	0	42	2	26	38	6034.87	1058	51
<b>WY 2018</b>	<b>375</b>	<b>27</b>	<b>405</b>	<b>25</b>	<b>251</b>	<b>360</b>			<b>585</b>
Oct 2018	37	0	39	1	9	26	6035.06	1060	43
Nov 2018	30	0	24	1	0	21	6035.33	1063	35
Dec 2018	25	0	21	1	0	22	6035.19	1062	37
Jan 2019	22	0	18	1	0	22	6034.84	1058	35
Feb 2019	30	0	27	1	0	19	6035.50	1065	32
Mar 2019	92	0	86	1	5	22	6040.88	1122	44
Apr 2019	170	2	147	2	21	21	6049.97	1225	73
May 2019	277	7	230	3	36	23	6063.53	1393	169
Jun 2019	224	3	194	4	52	30	6071.50	1501	181
Jul 2019	66	0	79	5	57	34	6070.33	1485	101
Aug 2019	45	0	63	4	48	55	6067.18	1442	93
Sep 2019	43	0	55	3	26	55	6065.05	1413	87
<b>WY 2019</b>	<b>1061</b>	<b>12</b>	<b>983</b>	<b>27</b>	<b>254</b>	<b>348</b>			<b>931</b>
Oct 2019	47	0	48	2	10	47	6064.29	1403	75
Nov 2019	34	0	27	1	0	34	6063.69	1395	52
Dec 2019	25	0	21	1	0	25	6063.29	1390	40
Jan 2020	22	0	18	1	0	22	6062.97	1386	36
Feb 2020	30	0	27	1	0	30	6062.66	1382	43
Mar 2020	92	0	86	2	6	92	6061.58	1368	114
Apr 2020	170	2	146	2	22	170	6057.79	1320	223

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
H	Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
I	Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
S	Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	929
T	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>
O	Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	634
R	Nov 2017	387	454	37	630	0	630	3625.29	5200	14332	619
I	Dec 2017	299	483	29	740	0	740	3622.85	5179	14068	733
C	Jan 2018	262	442	9	860	0	860	3619.14	5147	13672	860
A	Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	748
L	Mar 2018	332	395	16	800	0	800	3612.23	5090	12956	834
*	Apr 2018	382	419	25	705	0	705	3609.39	5067	12669	738
	May 2018	1000	787	29	705	0	705	3609.88	5071	12718	711
	Jun 2018	1100	896	45	760	0	760	3610.71	5078	12802	768
	Jul 2018	518	519	53	860	0	860	3607.06	5049	12436	879
	Aug 2018	250	377	52	900	0	900	3601.61	5006	11904	918
	Sep 2018	250	374	46	670	0	670	3598.28	4981	11587	681
<b>WY 2018</b>		<b>5497</b>	<b>6066</b>	<b>390</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9122</b>
	Oct 2018	380	436	32	640	0	640	3595.96	4963	11369	646
	Nov 2018	412	441	30	640	0	640	3593.68	4946	11157	640
	Dec 2018	363	421	24	720	0	720	3590.41	4922	10858	725
	Jan 2019	361	418	7	860	0	860	3585.77	4889	10442	871
	Feb 2019	393	426	7	750	0	750	3582.26	4864	10135	754
	Mar 2019	665	585	12	800	0	800	3579.82	4848	9924	805
	Apr 2019	1056	858	20	710	0	710	3581.21	4857	10044	718
	May 2019	2343	1987	25	710	0	710	3594.18	4950	11203	716
	Jun 2019	2666	2108	42	750	0	750	3606.91	5047	12422	758
	Jul 2019	1091	987	53	850	0	850	3607.70	5054	12500	869
	Aug 2019	500	613	52	900	0	900	3604.52	5029	12186	918
	Sep 2019	408	557	48	670	0	670	3602.99	5017	12037	681
<b>WY 2019</b>		<b>10637</b>	<b>9838</b>	<b>352</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9100</b>
	Oct 2019	512	590	33	640	0	640	3602.20	5011	11961	646
	Nov 2019	473	544	32	640	0	640	3600.97	5001	11842	640
	Dec 2019	363	497	25	720	0	720	3598.55	4983	11612	725
	Jan 2020	361	473	8	860	0	860	3594.66	4953	11248	871
	Feb 2020	393	471	8	750	0	750	3591.77	4932	10982	754
	Mar 2020	665	660	13	800	0	800	3590.21	4921	10839	805
	Apr 2020	1056	1081	22	710	0	710	3593.74	4947	11162	718

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 2018 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	<b>Glen Release</b>	<b>Side Inflow</b>	<b>Evap</b>	<b>Total</b>	<b>Total</b>	<b>SNWP</b>	<b>Downstream</b>	<b>Bank</b>	<b>Reservoir Elev</b>	<b>EOM</b>
<b>Date</b>	<b>(1000 Ac-Ft)</b>	<b>Glen to Hoover</b>	<b>Losses</b>	<b>Release</b>	<b>Release</b>	<b>Use</b>	<b>Requirements</b>	<b>Storage</b>	<b>End of Month</b>	<b>Storage</b>
	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 CFS)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(Ft)</b>	<b>(1000 Ac-Ft)</b>
* May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
H Jun 2017	749	17	53	864	14.5	29	864	648	1079.52	9971
I Jul 2017	850	89	66	885	14.4	31	885	646	1079.03	9931
S Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
T 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>			
O Oct 2017	640	44	43	596	9.7	23	595	663	1082.30	10202
R Nov 2017	630	40	42	731	12.3	16	731	656	1080.95	10090
I Dec 2017	740	43	37	594	9.7	12	593	664	1082.52	10221
C Jan 2018	860	78	30	449	7.3	10	448	692	1087.50	10642
A Feb 2018	730	60	28	687	12.4	10	693	696	1088.21	10703
L Mar 2018	800	70	32	833	13.5	14	832	695	1088.11	10694
* Apr 2018	705	44	39	1015	17.1	22	1015	675	1084.49	10387
May 2018	705	31	44	1030	16.8	27	1030	653	1080.39	10043
Jun 2018	760	12	53	934	15.7	33	934	638	1077.56	9810
Jul 2018	860	81	66	848	13.8	36	848	637	1077.46	9802
Aug 2018	900	112	70	752	12.2	34	752	647	1079.23	9947
Sep 2018	670	105	58	775	13.0	27	775	641	1078.27	9868
<b>WY 2018</b>	<b>9000</b>	<b>720</b>	<b>541</b>	<b>9246</b>		<b>266</b>	<b>9248</b>			
Oct 2018	640	69	42	577	9.4	28	577	645	1078.98	9926
Nov 2018	640	61	42	730	12.3	21	730	640	1077.93	9840
Dec 2018	720	50	36	658	10.7	14	658	643	1078.63	9897
Jan 2019	860	78	30	619	10.1	12	619	660	1081.77	10158
Feb 2019	750	93	28	685	12.3	14	685	667	1083.07	10267
Mar 2019	800	56	31	1055	17.2	21	1055	652	1080.25	10032
Apr 2019	710	48	38	1059	17.8	23	1059	630	1076.12	9692
May 2019	710	31	43	967	15.7	27	967	612	1072.69	9414
Jun 2019	750	12	51	907	15.2	33	907	598	1069.99	9198
Jul 2019	850	81	64	826	13.4	36	826	598	1070.06	9204
Aug 2019	900	112	68	740	12.0	34	740	609	1072.05	9363
Sep 2019	670	105	56	734	12.3	27	734	606	1071.57	9324
<b>WY 2019</b>	<b>9000</b>	<b>796</b>	<b>528</b>	<b>9555</b>		<b>291</b>	<b>9555</b>			
Oct 2019	640	69	41	510	8.3	28	510	614	1073.09	9446
Nov 2019	640	61	41	670	11.3	21	670	612	1072.73	9417
Dec 2019	720	50	35	594	9.7	14	594	620	1074.20	9536
Jan 2020	860	78	29	607	9.9	14	607	637	1077.52	9806
Feb 2020	750	93	27	663	11.5	17	663	646	1079.07	9934
Mar 2020	800	56	30	988	16.1	22	988	635	1076.97	9762
Apr 2020	710	48	37	997	16.8	25	997	616	1073.48	9478

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2017	917	-13	22	846	0	846	13.8	643.74	1719
H	Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
I	Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
S	Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
T	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>			
O	Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
R	Nov 2017	731	-18	11	595	0	595	10.0	640.07	1619
I	Dec 2017	594	-16	9	552	0	552	9.0	640.68	1636
C	Jan 2018	449	2	10	437	0	437	7.1	640.86	1641
A	Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
L	Mar 2018	833	-1	13	836	0	836	13.6	642.57	1687
*	Apr 2018	1015	-3	17	1001	0	1001	16.8	642.40	1682
	May 2018	1030	-12	22	979	0	979	15.9	643.00	1699
	Jun 2018	934	-15	25	893	0	893	15.0	643.00	1699
	Jul 2018	848	-15	25	835	0	835	13.6	642.00	1671
	Aug 2018	752	-12	23	718	0	718	11.7	642.00	1671
	Sep 2018	775	-12	18	798	0	798	13.4	640.01	1617
<b>WY 2018</b>		<b>9246</b>	<b>-109</b>	<b>198</b>	<b>8925</b>	<b>0</b>	<b>8925</b>			
	Oct 2018	577	-4	15	741	0	741	12.1	633.00	1434
	Nov 2018	730	-12	10	655	0	655	11.0	635.00	1486
	Dec 2018	658	-12	9	540	0	540	8.8	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	990	0	990	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	907	-15	25	867	0	867	14.6	643.00	1699
	Jul 2019	826	-15	25	812	0	812	13.2	642.00	1671
	Aug 2019	740	-12	23	706	0	706	11.5	642.00	1671
	Sep 2019	734	-12	18	757	0	757	12.7	640.01	1618
<b>WY 2019</b>		<b>9555</b>	<b>-166</b>	<b>197</b>	<b>9191</b>	<b>0</b>	<b>9191</b>			
	Oct 2019	510	-4	15	675	0	675	11.0	633.00	1434
	Nov 2019	670	-12	10	595	0	595	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
	Mar 2020	988	-17	13	923	0	923	15.0	643.05	1700
	Apr 2020	997	-20	17	962	0	962	16.2	643.00	1699

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
* May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
H Jun 2017	853	0	15	689	11.6	57	79	448.41	588	126	2.1
I Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
S Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
T 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>	
O Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
R Nov 2017	595	12	9	349	5.9	89	127	447.86	577	99	1.7
I Dec 2017	552	17	7	335	5.5	100	144	446.80	557	109	1.8
C Jan 2018	437	3	6	329	5.3	29	90	445.81	539	125	2.0
A Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
L Mar 2018	836	-3	9	637	10.4	61	139	447.46	570	195	3.2
* Apr 2018	1001	-8	11	735	12.4	75	168	447.13	564	175	2.9
May 2018	979	15	13	673	10.9	85	181	448.70	593	119	1.9
Jun 2018	893	13	16	710	11.9	82	85	448.70	593	127	2.1
Jul 2018	835	21	17	680	11.1	85	74	448.00	580	135	2.2
Aug 2018	718	23	17	601	9.8	85	35	447.50	571	104	1.7
Sep 2018	798	17	15	524	8.8	82	185	447.50	570	96	1.6
<b>WY 2018</b>	<b>8925</b>	<b>120</b>	<b>139</b>	<b>6479</b>		<b>856</b>	<b>1468</b>			<b>1495</b>	
Oct 2018	741	23	12	475	7.7	85	185	447.50	571	65	1.1
Nov 2018	655	16	9	384	6.4	88	185	447.50	571	99	1.7
Dec 2018	540	18	7	290	4.7	91	185	446.50	552	109	1.8
Jan 2019	507	21	6	318	5.2	78	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	990	7	9	718	11.7	69	189	446.70	555	198	3.2
Apr 2019	1024	16	11	710	11.9	88	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	88	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	88	152	447.50	570	89	1.5
<b>WY 2019</b>	<b>9191</b>	<b>200</b>	<b>139</b>	<b>6450</b>		<b>999</b>	<b>1698</b>			<b>1453</b>	
Oct 2019	675	23	12	490	8.0	48	141	447.50	571	74	1.2
Nov 2019	595	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
Mar 2020	923	7	9	708	11.5	76	125	446.70	555	191	3.1
Apr 2020	962	16	11	699	11.7	97	125	448.70	593	168	2.8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
H Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
I Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
S Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
T 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>		
O Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
R Nov 2017	731	12.3	1080.95	10090	-113	435.01	996.0	287.9	63	393.6
I Dec 2017	594	9.7	1082.52	10221	131	439.05	821.0	235.7	52	396.6
C Jan 2018	449	7.3	1087.50	10642	421	442.14	834.0	176.5	51	392.9
A Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
L Mar 2018	833	13.5	1088.11	10694	-9	442.23	1005.9	333.9	62	400.8
* Apr 2018	1015	17.1	1084.49	10387	-308	437.15	880.9	406.2	55	400.0
May 2018	1030	16.8	1080.39	10043	-343	430.42	1385.9	400.9	88	389.2
Jun 2018	934	15.7	1077.56	9810	-233	425.51	1562.0	360.4	100	385.8
Jul 2018	848	13.8	1077.46	9802	-8	424.38	1562.0	328.6	100	387.4
Aug 2018	752	12.2	1079.23	9947	146	425.54	1562.0	288.7	100	383.7
Sep 2018	775	13.0	1078.27	9868	-79	426.58	1562.0	300.2	100	387.2
<b>WY 2018</b>	<b>9246</b>							<b>3623.0</b>		
Oct 2018	577	9.4	1078.98	9926	58	432.14	1065.0	223.5	68	387.7
Nov 2018	730	12.3	1077.93	9840	-86	432.95	1256.0	286.7	80	392.9
Dec 2018	658	10.7	1078.63	9897	58	431.61	1154.0	254.3	74	386.5
Jan 2019	619	10.1	1081.77	10158	260	433.09	911.0	244.0	57	394.5
Feb 2019	685	12.3	1083.07	10267	109	434.25	917.1	274.0	58	400.2
Mar 2019	1055	17.2	1080.25	10032	-236	432.46	1000.0	423.8	63	401.7
Apr 2019	1059	17.8	1076.12	9692	-340	426.80	1247.0	414.3	80	391.3
May 2019	967	15.7	1072.69	9414	-278	421.66	1429.0	370.8	94	383.4
Jun 2019	907	15.2	1069.99	9198	-216	417.94	1512.0	342.6	100	377.6
Jul 2019	826	13.4	1070.06	9204	5	416.96	1512.0	313.4	100	379.6
Aug 2019	740	12.0	1072.05	9363	159	418.31	1528.0	278.8	100	376.7
Sep 2019	734	12.3	1071.57	9324	-39	419.71	1528.0	278.0	100	378.9
<b>WY 2019</b>	<b>9555</b>							<b>3704.3</b>		
Oct 2019	510	8.3	1073.09	9446	122	425.21	1140.1	197.5	75	387.0
Nov 2019	670	11.3	1072.73	9417	-29	427.47	1224.7	257.3	80	384.3
Dec 2019	594	9.7	1074.20	9536	119	426.80	1139.0	227.8	74	383.6
Jan 2020	607	9.9	1077.52	9806	270	429.41	797.2	238.3	51	392.4
Feb 2020	663	11.5	1079.07	9934	128	430.80	805.9	262.9	52	396.5
Mar 2020	988	16.1	1076.97	9762	-172	429.49	890.1	393.8	57	398.8
Apr 2020	997	16.8	1073.48	9478	-283	424.51	1138.9	387.0	74	388.0

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
H Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
I Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
S Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
T 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>		
O Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
R Nov 2017	595	10.0	640.07	1619	107	138.81	151.3	73.1	59	122.7
I Dec 2017	552	9.0	640.68	1636	17	139.44	131.6	69.5	52	126.0
C Jan 2018	437	7.1	640.86	1641	5	141.78	159.6	55.0	63	125.9
A Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
L Mar 2018	836	13.6	642.57	1687	-17	139.99	189.2	105.4	74	126.1
* Apr 2018	1001	16.8	642.40	1682	-5	141.14	207.4	125.1	81	125.0
May 2018	979	15.9	643.00	1699	16	137.13	204.0	122.1	80	124.7
Jun 2018	893	15.0	643.00	1699	0	136.04	255.0	111.9	100	125.3
Jul 2018	835	13.6	642.00	1671	-27	135.51	255.0	104.6	100	125.3
Aug 2018	718	11.7	642.00	1671	0	134.99	255.0	90.1	100	125.5
Sep 2018	798	13.4	640.01	1617	-54	133.94	255.0	99.0	100	124.0
<b>WY 2018</b>	<b>8925</b>							<b>1113.6</b>		
Oct 2018	741	12.1	633.00	1434	-183	130.59	207.3	89.2	81	120.4
Nov 2018	655	11.0	635.00	1486	51	129.19	170.0	77.7	67	118.5
Dec 2018	540	8.8	638.71	1583	97	132.25	167.8	65.8	66	121.9
Jan 2019	507	8.2	641.80	1666	83	134.43	210.6	63.4	83	125.2
Feb 2019	660	11.9	641.80	1666	0	136.73	187.6	82.6	74	125.2
Mar 2019	990	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	643.00	1699	0	136.04	255.0	108.7	100	125.4
Jul 2019	812	13.2	642.00	1671	-27	135.51	255.0	101.9	100	125.4
Aug 2019	706	11.5	642.00	1671	0	134.99	255.0	88.6	100	125.5
Sep 2019	757	12.7	640.01	1618	-54	133.94	255.0	94.0	100	124.2
<b>WY 2019</b>	<b>9191</b>							<b>1139.5</b>		
Oct 2019	675	11.0	633.00	1434	-183	130.59	207.3	81.5	81	120.8
Nov 2019	595	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
Mar 2020	923	15.0	643.05	1700	34	137.26	190.8	115.1	75	124.8
Apr 2020	962	16.2	643.00	1699	-1	136.07	255.0	120.2	100	124.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
*	May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
H	Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
I	Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
S	Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
T	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>		
O	Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
R	Nov 2017	349	5.9	447.86	577	30	81.65	90.0	24.1	75	69.2
I	Dec 2017	335	5.5	446.80	557	-20	81.55	92.9	22.5	77	67.0
C	Jan 2018	329	5.3	445.81	539	-18	80.05	117.1	22.8	98	69.2
A	Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
L	Mar 2018	638	10.4	447.46	570	-20	81.79	102.6	44.9	85	70.4
*	Apr 2018	735	12.4	447.13	564	-6	81.11	120.0	50.8	100	69.1
	May 2018	673	10.9	448.70	593	30	75.29	120.0	44.3	100	65.8
	Jun 2018	710	11.9	448.70	593	0	76.05	120.0	47.3	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>6480</b>							<b>438.9</b>		
	Oct 2018	475	7.7	447.50	571	0	76.19	91.9	31.3	77	65.9
	Nov 2018	384	6.4	447.50	571	0	75.83	99.0	24.9	83	65.0
	Dec 2018	290	4.7	446.50	552	-19	74.40	120.0	18.2	100	62.7
	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>6450</b>							<b>422.4</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
	Mar 2020	708	11.5	446.70	555	4	74.34	112.3	46.2	94	65.3
	Apr 2020	699	11.7	448.70	593	38	75.08	120.0	46.0	100	65.8

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2017	291	105	43	72	17	4
H Jun 2017	346	102	40	66	8	6
I Jul 2017	399	71	35	13	18	8
S Aug 2017	421	56	34	0	22	9
T 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>
O Oct 2017	294	42	30	37	21	7
R Nov 2017	288	55	12	14	8	7
I Dec 2017	339	68	27	33	19	6
C Jan 2018	394	68	17	21	12	6
A Feb 2018	335	60	9	12	3	5
L Mar 2018	364	41	12	16	9	1
<b>Winter 2018</b>	<b>2013</b>	<b>334</b>	<b>107</b>	<b>133</b>	<b>71</b>	<b>31</b>
* Apr 2018	318	39	23	27	16	5
May 2018	284	52	22	32	18	8
Jun 2018	307	62	22	29	16	9
Jul 2018	346	40	23	29	14	10
Aug 2018	359	40	23	30	14	8
Sep 2018	265	38	20	26	13	7
<b>Summer 2018</b>	<b>1880</b>	<b>270</b>	<b>132</b>	<b>172</b>	<b>92</b>	<b>46</b>
Oct 2018	252	39	11	16	8	7
Nov 2018	251	38	4	6	4	6
Dec 2018	280	39	4	6	4	6
Jan 2019	332	39	4	6	4	6
Feb 2019	287	35	4	6	3	5
Mar 2019	304	39	5	7	5	5
<b>Winter 2019</b>	<b>1704</b>	<b>231</b>	<b>32</b>	<b>46</b>	<b>27</b>	<b>35</b>
Apr 2019	269	38	10	17	10	5
May 2019	273	62	45	64	23	7
Jun 2019	297	52	28	40	22	9
Jul 2019	341	37	31	38	21	10
Aug 2019	361	37	34	40	21	8
Sep 2019	267	36	33	40	20	7
<b>Summer 2019</b>	<b>1809</b>	<b>261</b>	<b>182</b>	<b>239</b>	<b>117</b>	<b>45</b>
Oct 2019	255	37	20	25	13	7
Nov 2019	254	35	17	21	11	6
Dec 2019	284	37	28	35	18	6
Jan 2020	338	37	22	29	15	5
Feb 2020	292	34	15	19	10	5
Mar 2020	311	37	8	11	6	5
<b>Winter 2020</b>	<b>1423</b>	<b>180</b>	<b>102</b>	<b>128</b>	<b>66</b>	<b>29</b>
Apr 2020	276	60	14	21	12	4

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**



**May 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 ****													
May 2018	777	331	474	11653	13235	16990	30225	461	73	62	595	11653	16990	29239	1500	1030	0	30.5				
Jun 2018	649	297	453	11604	13004	17334	30337	322	25	2	349	11604	17334	29287	1500	934	0	30.5				
Jul 2018	460	253	497	11520	12730	17567	30297	116	-31	-9	77	11520	17567	29164	1500	848	0	30.1				
											**** CREDITABLE SPACE ****											
Aug 2018	363	276	565	11886	13090	17575	30666	363	276	565	1205	11886	17575	30666	1500	752	0	29.6				
Sep 2018	395	315	613	12418	13741	17430	31171	395	315	613	1323	12418	17430	31171	2270	775	0	29.0				
Oct 2018	455	349	638	12735	14176	17509	31685	455	349	638	1441	12735	17509	31685	3040	577	0	28.6				
Nov 2018	510	358	636	12953	14457	17451	31907	510	358	636	1503	12953	17451	31907	3810	730	0	28.3				
Dec 2018	566	344	633	13165	14708	17537	32245	566	344	633	1542	13165	17537	32245	4580	658	0	28.1				
Jan 2019	639	333	634	13464	15071	17480	32551	639	333	634	1607	13464	17480	32551	5350	619	0	28.0				
											**** EFFECTIVE SPACE ****											
Jan 2019	639	333	634	13464	15071	17480	32551	338	333	611	1282	13464	17480	32226	5350	619	0	28.0				
Feb 2019	708	323	638	13880	15549	17219	32768	405	323	614	1343	13880	17219	32442	1500	685	0	27.7				
Mar 2019	763	313	631	14187	15894	17110	33004	458	313	606	1378	14187	17110	32675	1500	1055	0	27.4				
Apr 2019	772	294	574	14398	16037	17345	33382	463	294	542	1299	14398	17345	33042	1500	1059	0	27.4				
May 2019	749	252	471	14278	15750	17685	33435	434	252	417	1103	14278	17685	33066	1500	967	0	28.6				
Jun 2019	683	197	303	13119	14301	17963	32264	359	188	209	756	13119	17963	31838	1500	907	0	30.1				
Jul 2019	451	49	195	11900	12595	18179	30774	110	18	45	173	11900	18179	30252	1500	826	0	30.2				
											**** CREDITABLE SPACE ****											
Aug 2019	359	29	211	11822	12422	18173	30595	359	29	211	600	11822	18173	30595	1500	740	0	29.9				
Sep 2019	385	66	254	12136	12841	18014	30855	385	66	254	705	12136	18014	30855	2270	734	0	29.5				
Oct 2019	439	129	283	12285	13135	18053	31188	439	129	283	851	12285	18053	31188	3040	510	0	29.3				
Nov 2019	488	156	293	12361	13298	17931	31229	488	156	293	937	12361	17931	31229	3810	670	0	29.1				
Dec 2019	537	182	301	12480	13499	17960	31458	537	182	301	1019	12480	17960	31458	4580	594	0	29.0				
Jan 2020	603	250	306	12710	13869	17841	31710	603	250	306	1159	12710	17841	31710	5350	607	0	28.8				
											**** EFFECTIVE SPACE ****											
Jan 2020	603	250	306	12710	13869	17841	31710	324	250	-36	539	12710	17841	31089	5350	607	0	28.8				
Feb 2020	664	302	310	13074	14351	17571	31922	384	302	-32	654	13074	17571	31299	1500	663	0	28.6				
Mar 2020	715	330	314	13340	14700	17443	32143	433	330	-29	734	13340	17443	31517	1500	988	0	28.3				
Apr 2020	717	318	328	13483	14846	17615	32461	430	318	-23	726	13483	17615	31824	1500	997	0	28.3				

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