

**December 24-Month Study**  
**Date: December 12, 2018**

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

**Current Reservoir Status**

Reservoir	November Inflow (unregulated) (acre-feet)	Percent of Average (%)	December 11, Midnight Elevation (feet)	December 11, Midnight Reservoir Storage (acre-feet)
Fontenelle	38,400	91	6,486.43	204,000
Flaming Gorge	39,800	78	6,028.53	3,293,000
Blue Mesa	21,500	69	7,437.70	248,000
Navajo	15,300	46	6,017.11	885,000
Powell	254,400	54	3,584.90	10,365,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this December 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) and draft 2019 AOP. Pursuant to the Interim Guidelines, the August 2018 24-Month Study projections of the January 1, 2019, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2019.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2019 will be governed by the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 million acre-feet (maf) and the potential for an April adjustment to equalization or balancing releases in April 2019. This December 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 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 December 24-Month Study projects a balancing release of 8.66 maf in water year 2019.

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 years 2018 and 2019.

The 2019 operational tier determinations will be documented in the 2019 AOP, which is currently in development.

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>

The draft 2019 AOP is available for download at:

[https://www.usbr.gov/lc/region/g4000/AOP2019/AOP19\\_draft.pdf](https://www.usbr.gov/lc/region/g4000/AOP2019/AOP19_draft.pdf)

**Fontenelle Reservoir** – Fontenelle Reservoir is currently at elevation 6486.8 feet above sea level (feet), which amounts to 60 percent of live storage capacity. Inflows for the month of November totaled 38,500 acre-feet (af), or 91 percent of average. Average inflows are occurring and releases are being adjusted to maintain capacity in the reservoir. Releases are currently set at 1,000 cubic feet per second (cfs) (12/10/2018).

The Colorado Basin River Forecast Center has forecasted inflows that are at or above average. December, January, and February forecasted inflow volumes amount to 31,000 af (97 percent of average), 30,000 af (99 percent of average), and 28,000 af (101 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., April 24, 2019. The meeting will be held at the Seedskafee National Wildlife Refuge. 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 2,000 cfs with fluctuations for hydropower. Average daily releases will likely remain at 2,000 cfs through the end of February.

Inflow into Flaming Gorge Reservoir during the month of November was 61,300 af, or 95 percent of average. The current reservoir elevation is 6028.7 feet (88 percent of live capacity) and decreasing.

The December final forecast for inflows for the next three months projects near average conditions: December, January, and February forecasted inflow volumes at 61,500 af (105 percent of average), 67,500 af (104 percent of average), and 66,500 af (100 percent of average), respectively.

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 Thursday, March 14, 2019 at 10:00 a.m. at the Uintah Conference Center, 313 E 200 S, Vernal, Utah.

**Aspinall Unit Reservoirs** – As of December 11, 2018 releases from Crystal Dam are approximately 340 cfs. Uncompahgre Valley Water Users Association has stopped diversions through the Gunnison Tunnel except for periodic diversions to fill Fairview Reservoir. Flows through the Black Canyon are approximately 320 cfs. There is currently about a 20 cfs loss to the Gunnison River between Crystal Dam and the Gunnison Tunnel Diversion. As of December 11, 2018, Blue Mesa Reservoir elevation is 7437.70 feet which corresponds to storage content of 248,220 af (30 percent of capacity).

The November unregulated inflow to Blue Mesa Reservoir was 21,500 af (69 percent of average). Unregulated Inflows to Blue Mesa for the next three months (December, January and February) are projected to be: 18,000 af (69 percent of average), 15,000 af (62 percent of average) and 14,000 af (63 percent of average), respectively. For water year 2019, the unregulated inflow volume is forecasted to be 684,400 af (71 percent of average) with 490,000 af (72 percent of average) of unregulated inflow occurring during the April through July period. The December 24-Month Study is reflective of this new forecast.

Conditions are clearly very dry. Blue Mesa Reservoir did not fill in water year 2018 and will most likely not fill in water year 2019 either. Current projections indicate Blue Mesa storage will remain near the current level till March of 2019 before rebounding during the spring runoff. Current projections show Blue Mesa will reach a low elevation for water year 2019 of about 7,436.5 feet near the end of February 2019 and a peak elevation for water year 2019 of about 7472 feet in late July 2019. The projected end of water year 2019 elevation of Blue Mesa is 7464.3 feet which corresponds to a live storage content of 398,300 acre-feet (48 percent of full capacity).

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, January 17, 2019 at 1:00 pm at the Holiday Inn Express located in Montrose, Colorado.

**Navajo Reservoir** – The current (December 10<sup>th</sup>) daily average release rate from Navajo Dam is 289 cfs and the observed inflow to Navajo Reservoir is 205 cfs. The Navajo Indian Irrigation Project (NIIP) has shut down for the season. The NIIP diversion total for the year was 222,800 af. The reservoir elevation is 6017.17 feet which corresponds to a live storage of 0.886 maf (52 percent of live storage capacity). This elevation also corresponds to an active storage of 0.224 maf (22 percent of active storage capacity). The river flow measured at the San Juan River at Four Corners USGS gage is 565 cfs. River flow at the Animas River at Farmington USGS gage is at 225 cfs. Releases from Navajo Dam are made for the authorized purposes of the Navajo Unit, and pursuant to the 2006 Record of Decision, to 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.

Preliminary modified-unregulated inflow into Navajo (inflow adjusted for upstream change in storage, reservoir evaporation and exportation from the basin) in November was 15,278 af (46 percent of average).

Forecast modified-unregulated inflow to Navajo over the next three months (December, January, and February) are projected to be: 13,000 af (52 percent of average), 13,000 af (59 percent of average), and 16,000 af (53 percent of average), respectively.

Releases for the winter will be made to maintain the minimum target baseflow in the critical habitat reach and will decrease as irrigation in the basin decreases. When conditions allow, the release will be reduced to as low as the minimum release of 250 cfs, so long as the target baseflow downstream is still met.

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, January 29<sup>th</sup>, 2019, at 1:00 p.m. at the Farmington Civic Center, Farmington, NM.

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

### **Current Status**

The unregulated inflow in November was 253 thousand acre-feet (kaf) (54 percent of average). November precipitation in the Upper Colorado Basin was 100 percent of average, but the extremely dry soil conditions decreased the amount of observed runoff. The release volume from Glen Canyon Dam in November was 661 kaf. The end of November elevation and storage of Lake Powell were 3,586.50 feet (113.5 feet from full pool) 10.50 maf (43 percent of full capacity).

### **Current Operations**

The operating tier for water year 2019 was established in August 2018 as the Upper Elevation Balancing Tier. As described in the Interim Guidelines, under balancing, the contents of Lake Powell and Lake Mead are to be balanced by the end of the water year, but not more than 9.0 maf and not less than 8.23 maf is to be released from Lake Powell. Under this Tier the initial annual water year release volume is 8.23 maf but there is potential for an April 2019 adjustment to equalization or balancing releases. Based on the current forecast, an April adjustment to balancing releases is projected and Lake Powell is currently projected to release 8.66 maf in water year 2019. This projection will be updated each month throughout the water year.

In December, the release volume will be approximately 740 kaf, with fluctuations anticipated between about 8,415 cfs in the nighttime to about 15,165 cfs in the daytime and consistent with the Glen Canyon Dam, Record of Decision on LTEMP (dated December, 2016). The anticipated release volume for January is 860 kaf.

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 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 power system emergencies. Depending on the severity of the system emergency, the response from Glen Canyon Dam can be significant and 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 28 mw (approximately 830 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 forecast for water year 2019 unregulated inflow to Lake Powell, issued on December 1, 2018, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume next year will be 7.1 maf (66 percent of average). There is significant uncertainty regarding next season's snow pack development and resulting runoff into Lake Powell. The forecast ranges from a minimum probable of 4.6 maf (42 percent of average) to a maximum probable of 15.4 maf (142 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 December 24-Month Study projects Lake Powell elevation will end water year 2019 near 3,571.23 feet with approximately 9.21 maf in storage (38 percent of capacity). Note that projections of elevation and storage for water year 2019 have significant uncertainty at this point in the season. Projections of end of water year 2019 elevation and storage using the minimum and maximum probable inflow forecast from October 2018 are 3,556 feet (8.027 maf, 33 percent of capacity) and 3,636 feet (15.54 maf, 64 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, resulting in lower elevation and storage. The annual release volume from Lake Powell during water year 2019 is projected to be 8.66 maf under the December most probable scenario, and 9.0 maf under the October maximum probable inflow scenarios and 8.23 maf under the October minimum probable inflow scenario.

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

Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. During the 19-year period 2000 to 2018, 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 19 years. The period 2000-2018 is the lowest 19-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.54 maf, or 79 percent of the 30-year average (1981-2010). (For comparison, the 1981-2010 total water year average is 10.83 maf.) The unregulated inflow during the 2000-2018 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 2018 unregulated inflow volume to Lake Powell was 4.6 maf (43 percent of average), the third driest year on record above 2002 and 1977. Under the current most probable forecast, the total water year 2019 unregulated inflow to Lake Powell is projected to be 7.6 maf (70 percent of average).

At the beginning of water year 2019, total system storage in the Colorado River Basin was 28.01 maf (47 percent of 59.6 maf total system capacity). This is a decrease of 4.91 maf over the total storage at the beginning of water year 2018 when total system storage was 32.92 maf (55 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 the now current level of 47 percent of capacity at the beginning of water year

2019. Based on current inflow forecasts, the current projected end of water year total Colorado Basin reservoir storage for water year 2019 is approximately 25.14 maf (42 percent of total system capacity). The actual end of water year 2019 system storage may vary from this projection, primarily due to uncertainty regarding this season's runoff and reservoir inflow.

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		nov	Forecast			
:		aug	sep	oct	nov	%Avg	dec	jan	feb
GLDA3: Lake Powell		11.2	0.92	351	253	53%:	240/	235/	260/
GBRW4: Fontenelle		50	30	42	38	90%:	31/	30/	28/
GRNU1: Flaming Gorge		42	17.3	54	40	78%:	31/	36/	39/
BMDC2: Blue Mesa		18.6	11.6	23	22	71%:	18/	15/	14/
MPSC2: Morrow Point		19.0	13.8	24	23	69%:	19/	16/	15/
CLSC2: Crystal		21	15.2	27	26	68%:	21/	18/	17/
TPIC2: Taylor Park		3.2	2.9	4.6	3.3	65%:	3/	3/	2.5/
VCRC2: Vallecito		5.4	3.3	8.5	5.2	59%:	3.5/	3/	2.5/
NVRN5: Navajo		-6.92	2.5	23	15.3	46%:	13/	13/	16
LEMC2: Lemon		0.73	0.48	1.85	1.02	61%:	0.5/	0.5/	0.5/
MPHC2: McPhee		7.8	3.1	4.7	2.0	33%:	1.5/	2/	2/
RBSC2: Ridgway		2.8	2.6	3.3	3.7	66%:	3/	2.5/	2/
YDLC2: Deerlodge		3.9	1.79	18.3	18.5	55%:	16/	16/	18/:

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	46	1	72	8	80	6486.39	204
H	Jan 2018	42	1	79	1	80	6479.83	165
I	Feb 2018	38	0	72	0	72	6472.86	131
S	Mar 2018	58	0	16	56	71	6469.78	117
T	Apr 2018	101	1	83	4	87	6472.76	130
O	May 2018	354	2	100	123	223	6494.84	260
R	Jun 2018	404	2	101	269	370	6499.18	292
I	Jul 2018	138	3	92	8	100	6503.79	327
C	Aug 2018	50	2	75	1	76	6500.10	299
A	Sep 2018	30	2	7	58	65	6495.11	262
<b>WY 2018</b>		<b>1397</b>	<b>15</b>	<b>856</b>	<b>528</b>	<b>1382</b>		
L	Oct 2018	42	1	45	20	65	6491.62	238
*	Nov 2018	38	1	60	0	60	6488.29	216
	Dec 2018	31	1	61	0	61	6483.36	186
	Jan 2019	30	1	61	0	61	6477.52	154
	Feb 2019	28	0	56	0	56	6471.58	126
	Mar 2019	45	0	58	0	58	6468.31	112
	Apr 2019	70	1	61	0	61	6470.26	120
	May 2019	125	1	73	0	73	6480.80	171
	Jun 2019	240	2	102	20	122	6498.42	287
	Jul 2019	155	3	102	8	110	6503.98	330
	Aug 2019	65	2	68	0	68	6503.35	325
	Sep 2019	41	2	36	29	65	6499.94	298
<b>WY 2019</b>		<b>910</b>	<b>15</b>	<b>784</b>	<b>77</b>	<b>861</b>		
	Oct 2019	45	1	69	0	69	6496.52	273
	Nov 2019	41	1	67	0	67	6492.69	246
	Dec 2019	32	1	69	0	69	6486.96	208
	Jan 2020	30	1	69	0	69	6480.37	169
	Feb 2020	28	0	65	0	65	6472.79	131
	Mar 2020	53	0	71	0	71	6468.49	113
	Apr 2020	85	1	77	0	77	6470.27	120
	May 2020	164	1	98	19	117	6479.87	166
	Jun 2020	299	2	102	71	173	6498.88	291
	Jul 2020	178	3	102	39	141	6503.26	324
	Aug 2020	77	2	98	0	98	6500.13	300
	Sep 2020	46	2	21	75	95	6493.07	249
<b>WY 2020</b>		<b>1077</b>	<b>15</b>	<b>909</b>	<b>203</b>	<b>1112</b>		
	Oct 2020	49	1	98	0	98	6485.34	198
	Nov 2020	42	1	95	0	95	6475.57	144

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	52	86	2	174	0	174	135	6029.85	3343	197
H	Jan 2018	52	90	2	175	0	175	131	6027.65	3259	208
I	Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
S	Mar 2018	86	99	3	106	0	106	128	6025.65	3184	178
T	Apr 2018	121	108	5	101	0	101	128	6025.69	3186	277
O	May 2018	422	290	8	163	6	169	133	6028.57	3294	572
R	Jun 2018	435	401	11	125	0	125	143	6035.09	3550	278
I	Jul 2018	140	102	14	120	0	120	142	6034.33	3519	141
C	Aug 2018	42	68	13	124	0	124	139	6032.67	3453	142
A	Sep 2018	17	52	11	119	0	119	136	6030.75	3378	132
	<b>WY 2018</b>	<b>1594</b>	<b>1580</b>	<b>82</b>	<b>1608</b>	<b>7</b>	<b>1616</b>				<b>2638</b>
L	Oct 2018	54	77	7	99	0	99	135	6030.03	3350	131
*	Nov 2018	40	61	4	93	0	93	133	6029.15	3316	121
	Dec 2018	31	61	2	123	0	123	131	6027.55	3256	139
	Jan 2019	36	67	2	123	0	123	129	6026.09	3201	139
	Feb 2019	39	67	2	111	0	111	127	6024.88	3156	129
	Mar 2019	88	101	3	61	0	61	128	6025.83	3191	116
	Apr 2019	105	96	5	60	0	60	130	6026.66	3222	210
	May 2019	160	108	8	61	0	61	131	6027.64	3259	501
	Jun 2019	270	152	10	137	0	137	131	6027.76	3263	562
	Jul 2019	175	130	13	85	0	85	133	6028.54	3293	153
	Aug 2019	73	76	13	105	0	105	131	6027.49	3253	123
	Sep 2019	48	72	11	101	0	101	129	6026.48	3215	115
	<b>WY 2019</b>	<b>1118</b>	<b>1069</b>	<b>80</b>	<b>1159</b>	<b>0</b>	<b>1159</b>				<b>2440</b>
	Oct 2019	54	78	7	68	0	68	130	6026.56	3218	94
	Nov 2019	49	75	3	65	0	65	130	6026.72	3224	94
	Dec 2019	35	72	2	111	0	111	128	6025.68	3185	136
	Jan 2020	40	79	2	111	0	111	127	6024.82	3154	136
	Feb 2020	45	82	2	104	0	104	126	6024.19	3130	131
	Mar 2020	102	120	3	80	0	80	127	6025.17	3167	157
	Apr 2020	134	125	5	77	0	77	129	6026.29	3208	293
	May 2020	245	198	8	92	0	92	133	6028.79	3303	624
	Jun 2020	390	263	11	207	0	207	135	6029.94	3347	627
	Jul 2020	210	174	14	123	0	123	136	6030.87	3383	223
	Aug 2020	89	111	13	123	0	123	135	6030.24	3358	148
	Sep 2020	55	104	11	119	0	119	134	6029.60	3333	138
	<b>WY 2020</b>	<b>1447</b>	<b>1482</b>	<b>80</b>	<b>1279</b>	<b>0</b>	<b>1279</b>				<b>2801</b>
	Oct 2020	59	109	7	123	0	123	133	6029.06	3313	155
	Nov 2020	51	104	3	119	0	119	133	6028.60	3295	151

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	4	6	9313.84	76
H	Jan 2018	4	6	9312.64	74
I	Feb 2018	4	6	9311.50	72
S	Mar 2018	5	6	9310.51	71
T	Apr 2018	8	7	9311.18	72
O	May 2018	24	12	9318.33	84
R	Jun 2018	13	15	9317.29	82
I	Jul 2018	5	14	9311.71	73
C	Aug 2018	3	13	9305.51	63
A	Sep 2018	3	8	9301.71	58
<b>WY 2018</b>		<b>88</b>	<b>108</b>		
L	Oct 2018	5	3	9302.60	59
*	Nov 2018	3	3	9302.61	59
	Dec 2018	3	3	9302.54	59
	Jan 2019	3	3	9302.47	59
	Feb 2019	3	3	9302.26	58
	Mar 2019	3	3	9301.83	58
	Apr 2019	4	3	9302.54	59
	May 2019	21	10	9309.86	70
	Jun 2019	37	15	9322.56	92
	Jul 2019	15	18	9320.95	89
	Aug 2019	7	15	9316.48	81
	Sep 2019	6	13	9312.34	74
<b>WY 2019</b>		<b>109</b>	<b>93</b>		
	Oct 2019	6	6	9312.24	74
	Nov 2019	5	5	9312.08	73
	Dec 2019	5	5	9311.76	73
	Jan 2020	4	5	9311.24	72
	Feb 2020	4	5	9310.55	71
	Mar 2020	4	8	9308.29	67
	Apr 2020	9	8	9308.78	68
	May 2020	28	30	9307.67	66
	Jun 2020	42	30	9314.91	78
	Jul 2020	20	10	9320.64	88
	Aug 2020	10	8	9321.89	90
	Sep 2020	7	8	9321.55	90
<b>WY 2020</b>		<b>144</b>	<b>128</b>		
	Oct 2020	7	6	9321.90	90
	Nov 2020	5	5	9321.96	91

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	25	27	0	93	0	93	7491.44	593
H	Jan 2018	20	22	0	60	0	60	7486.51	554
I	Feb 2018	23	25	0	32	0	32	7485.54	547
S	Mar 2018	28	29	0	43	0	43	7483.73	534
T	Apr 2018	48	47	1	82	0	82	7478.94	498
O	May 2018	112	100	1	85	0	85	7480.90	513
R	Jun 2018	56	57	1	98	0	98	7475.06	471
I	Jul 2018	21	31	1	101	0	101	7464.43	399
C	Aug 2018	19	28	1	93	0	93	7453.77	334
A	Sep 2018	12	17	1	30	39	68	7444.44	282
<b>WY 2018</b>		<b>433</b>	<b>453</b>	<b>7</b>	<b>856</b>	<b>39</b>	<b>895</b>		
L	Oct 2018	23	22	0	46	11	56	7437.59	248
*	Nov 2018	22	21	0	19	0	19	7438.08	250
	Dec 2018	18	18	0	19	0	19	7437.79	249
	Jan 2019	15	15	0	18	0	18	7437.07	245
	Feb 2019	14	14	0	16	0	16	7436.60	243
	Mar 2019	25	26	0	18	0	18	7438.19	251
	Apr 2019	50	49	0	43	0	43	7439.37	256
	May 2019	145	134	1	105	0	105	7444.94	285
	Jun 2019	215	193	1	37	0	37	7470.57	440
	Jul 2019	80	83	1	72	0	72	7471.95	449
	Aug 2019	45	53	1	74	0	74	7468.66	427
	Sep 2019	33	40	1	67	0	67	7464.34	399
<b>WY 2019</b>		<b>684</b>	<b>668</b>	<b>6</b>	<b>536</b>	<b>11</b>	<b>546</b>		
	Oct 2019	35	35	0	42	0	42	7463.12	391
	Nov 2019	30	30	0	13	0	13	7465.77	408
	Dec 2019	26	26	0	14	0	14	7467.68	420
	Jan 2020	24	25	0	13	0	13	7469.43	432
	Feb 2020	22	23	0	13	0	13	7471.02	443
	Mar 2020	36	40	0	0	14	14	7474.63	468
	Apr 2020	77	76	1	0	35	35	7480.34	509
	May 2020	221	223	1	6	189	195	7483.91	535
	Jun 2020	261	249	1	24	0	24	7511.50	759
	Jul 2020	117	107	2	90	0	90	7513.23	774
	Aug 2020	63	61	1	99	0	99	7508.75	735
	Sep 2020	38	39	1	98	0	98	7501.58	674
<b>WY 2020</b>		<b>951</b>	<b>934</b>	<b>8</b>	<b>412</b>	<b>238</b>	<b>650</b>		
	Oct 2020	38	38	1	65	0	65	7498.21	647
	Nov 2020	31	31	0	36	0	36	7497.55	641

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	26	93	1	94	94	0	94	7152.45	111
H	Jan 2018	22	60	2	62	62	0	63	7150.65	110
I	Feb 2018	24	32	1	33	34	0	34	7149.19	108
S	Mar 2018	29	43	1	44	49	0	49	7143.05	104
T	Apr 2018	54	82	6	87	79	0	79	7154.30	112
O	May 2018	121	85	8	94	94	0	94	7153.76	112
R	Jun 2018	57	98	2	99	99	0	99	7154.16	112
I	Jul 2018	22	101	1	102	101	0	101	7155.49	113
C	Aug 2018	19	93	0	93	94	0	94	7153.96	112
A	Sep 2018	14	68	2	70	84	0	84	7135.77	98
<b>WY 2018</b>		<b>460</b>	<b>895</b>	<b>27</b>	<b>922</b>	<b>935</b>	<b>0</b>	<b>937</b>		
L	Oct 2018	24	56	1	57	56	0	56	7136.92	99
*	Nov 2018	23	19	1	20	13	0	15	7143.47	104
	Dec 2018	19	19	1	20	13	0	13	7153.73	112
	Jan 2019	16	18	1	19	19	0	19	7153.73	112
	Feb 2019	15	16	1	17	17	0	17	7153.73	112
	Mar 2019	28	18	3	21	21	0	21	7153.73	112
	Apr 2019	57	43	7	50	50	0	50	7153.73	112
	May 2019	160	105	15	120	120	0	120	7153.73	112
	Jun 2019	230	37	15	52	52	0	52	7153.73	112
	Jul 2019	83	72	3	75	75	0	75	7153.73	112
	Aug 2019	47	74	2	76	76	0	76	7153.73	112
	Sep 2019	35	67	2	69	69	0	69	7153.73	112
<b>WY 2019</b>		<b>737</b>	<b>546</b>	<b>52</b>	<b>598</b>	<b>583</b>	<b>0</b>	<b>585</b>		
	Oct 2019	37	42	2	45	45	0	45	7153.73	112
	Nov 2019	32	13	2	15	15	0	15	7153.73	112
	Dec 2019	28	14	2	16	16	0	16	7153.73	112
	Jan 2020	27	13	2	16	16	0	16	7153.73	112
	Feb 2020	25	13	3	15	15	0	15	7153.73	112
	Mar 2020	40	14	4	18	18	0	18	7153.73	112
	Apr 2020	88	35	11	46	46	0	46	7153.73	112
	May 2020	247	195	26	221	221	0	221	7153.73	112
	Jun 2020	281	24	20	44	44	0	44	7153.73	112
	Jul 2020	123	90	6	96	96	0	96	7153.73	112
	Aug 2020	67	99	3	103	103	0	103	7153.73	112
	Sep 2020	41	98	3	101	101	0	101	7153.73	112
<b>WY 2020</b>		<b>1035</b>	<b>650</b>	<b>84</b>	<b>735</b>	<b>735</b>	<b>0</b>	<b>735</b>		
	Oct 2020	41	65	3	67	67	0	67	7153.73	112
	Nov 2020	33	36	2	38	38	0	38	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	29	94	3	97	97	0	97	6749.23	16	1	98
H	Jan 2018	25	63	3	66	62	4	66	6747.99	16	1	65
I	Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	34
S	Mar 2018	33	49	4	52	53	0	53	6747.97	16	13	38
T	Apr 2018	60	79	6	84	84	0	84	6749.35	16	53	28
O	May 2018	129	94	9	102	102	0	102	6749.41	16	62	39
R	Jun 2018	61	99	3	102	102	0	102	6750.48	16	63	42
I	Jul 2018	24	101	2	103	103	0	103	6750.59	16	64	41
C	Aug 2018	21	94	2	96	98	0	98	6744.83	15	65	36
A	Sep 2018	15	84	1	85	87	0	87	6737.22	13	59	33
	<b>WY 2018</b>	<b>505</b>	<b>937</b>	<b>45</b>	<b>982</b>	<b>959</b>	<b>26</b>	<b>985</b>			<b>438</b>	<b>553</b>
L	Oct 2018	27	56	3	59	55	0	55	6751.87	17	33	24
*	Nov 2018	26	15	4	19	21	0	21	6743.11	14	1	19
	Dec 2018	21	13	2	15	12	0	12	6753.04	17	0	12
	Jan 2019	18	19	2	21	21	0	21	6753.04	17	0	21
	Feb 2019	17	17	2	19	19	0	19	6753.04	17	0	19
	Mar 2019	32	21	4	25	25	0	25	6753.04	17	5	20
	Apr 2019	65	50	8	58	58	0	58	6753.04	17	42	16
	May 2019	180	120	20	140	134	6	140	6753.04	17	62	78
	Jun 2019	255	52	25	77	77	0	77	6753.04	17	61	16
	Jul 2019	90	75	7	82	82	0	82	6753.04	17	65	17
	Aug 2019	53	76	6	82	82	0	82	6753.04	17	65	17
	Sep 2019	39	69	4	73	73	0	73	6753.04	17	55	18
	<b>WY 2019</b>	<b>823</b>	<b>585</b>	<b>86</b>	<b>671</b>	<b>660</b>	<b>6</b>	<b>667</b>			<b>389</b>	<b>279</b>
	Oct 2019	42	45	5	49	49	0	49	6753.04	17	30	19
	Nov 2019	36	15	4	19	19	0	19	6753.04	17	0	19
	Dec 2019	32	16	5	20	20	0	20	6753.04	17	0	20
	Jan 2020	31	16	5	20	20	0	20	6753.04	17	0	20
	Feb 2020	29	15	4	19	0	19	19	6753.04	17	0	19
	Mar 2020	46	18	6	25	25	0	25	6753.04	17	5	20
	Apr 2020	101	46	12	58	58	0	58	6753.04	17	42	16
	May 2020	281	221	34	256	134	121	256	6753.04	17	62	194
	Jun 2020	315	44	34	78	78	0	78	6753.04	17	61	17
	Jul 2020	138	96	14	111	111	0	111	6753.04	17	65	46
	Aug 2020	75	103	8	111	111	0	111	6753.04	17	65	46
	Sep 2020	47	101	6	107	107	0	107	6753.04	17	55	52
	<b>WY 2020</b>	<b>1173</b>	<b>735</b>	<b>138</b>	<b>873</b>	<b>732</b>	<b>140</b>	<b>873</b>			<b>385</b>	<b>488</b>
	Oct 2020	47	67	6	73	73	0	73	6753.04	17	30	43
	Nov 2020	38	38	5	43	43	0	43	6753.04	17	0	43

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	3	1	7640.27	65
H	Jan 2018	3	0	7641.42	67
I	Feb 2018	3	0	7642.57	70
S	Mar 2018	4	0	7644.11	73
T	Apr 2018	15	3	7649.29	85
O	May 2018	30	31	7648.91	84
R	Jun 2018	14	35	7639.22	63
I	Jul 2018	8	35	7624.15	35
C	Aug 2018	5	19	7613.87	22
A	Sep 2018	3	4	7613.06	21
<b>WY 2018</b>		<b>102</b>	<b>153</b>		
L	Oct 2018	9	3	7617.56	26
*	Nov 2018	5	0	7621.25	31
	Dec 2018	4	0	7623.39	34
	Jan 2019	3	0	7625.07	37
	Feb 2019	3	0	7626.39	39
	Mar 2019	4	0	7628.48	42
	Apr 2019	12	0	7634.71	54
	May 2019	42	30	7640.52	65
	Jun 2019	48	41	7643.32	71
	Jul 2019	21	40	7633.79	52
	Aug 2019	15	37	7620.30	30
	Sep 2019	12	29	7604.25	12
<b>WY 2019</b>		<b>177</b>	<b>183</b>		
	Oct 2019	12	16	7599.97	9
	Nov 2019	8	2	7606.78	14
	Dec 2019	6	2	7611.40	19
	Jan 2020	5	2	7614.59	22
	Feb 2020	5	2	7617.07	25
	Mar 2020	9	2	7622.07	32
	Apr 2020	23	2	7634.61	53
	May 2020	71	31	7652.53	93
	Jun 2020	70	43	7663.07	120
	Jul 2020	29	41	7658.11	107
	Aug 2020	20	38	7650.77	89
	Sep 2020	17	29	7645.63	77
<b>WY 2020</b>		<b>277</b>	<b>209</b>		
	Oct 2020	16	16	7645.18	76
	Nov 2020	9	2	7647.86	82

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2018 24-Month Study

Most Probable Inflow\*  
Navajo Reservoir



	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azetea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
*	Dec 2017	11	0	9	1	0	25	6053.69	1270	40
H	Jan 2018	12	0	9	1	0	23	6052.47	1255	40
I	Feb 2018	13	0	11	1	1	17	6051.73	1246	33
S	Mar 2018	24	2	19	2	6	21	6050.92	1236	30
T	Apr 2018	70	13	46	2	20	38	6049.73	1222	42
O	May 2018	88	16	71	3	36	32	6049.80	1223	69
R	Jun 2018	6	3	24	4	42	42	6044.23	1159	49
I	Jul 2018	-9	0	18	4	42	51	6036.94	1080	53
C	Aug 2018	-7	0	7	3	42	51	6028.27	991	48
A	Sep 2018	2	0	3	2	27	46	6020.80	919	42
<b>WY 2018</b>		<b>268</b>	<b>36</b>	<b>283</b>	<b>24</b>	<b>224</b>	<b>405</b>			<b>540</b>
L	Oct 2018	23	1	17	1	7	31	6018.35	897	40
*	Nov 2018	15	0	10	1	0	18	6017.43	888	34
	Dec 2018	13	0	10	0	0	20	6016.31	878	27
	Jan 2019	13	0	10	0	0	21	6015.12	867	28
	Feb 2019	16	0	14	1	0	16	6014.78	864	22
	Mar 2019	41	0	37	1	5	16	6016.45	879	27
	Apr 2019	77	1	64	2	21	16	6019.24	905	44
	May 2019	144	7	125	3	36	21	6026.15	970	109
	Jun 2019	150	17	127	3	52	21	6031.26	1021	126
	Jul 2019	34	18	36	3	57	27	6026.09	970	71
	Aug 2019	32	1	53	3	48	28	6023.44	944	52
	Sep 2019	30	1	46	2	26	24	6022.80	938	44
<b>WY 2019</b>		<b>588</b>	<b>45</b>	<b>550</b>	<b>20</b>	<b>251</b>	<b>259</b>			<b>624</b>
	Oct 2019	37	1	40	1	10	22	6023.54	945	42
	Nov 2019	30	1	24	1	0	21	6023.79	948	37
	Dec 2019	25	0	20	0	0	22	6023.63	946	37
	Jan 2020	22	0	18	0	0	22	6023.24	942	35
	Feb 2020	30	0	27	1	0	20	6023.90	949	33
	Mar 2020	92	0	85	1	6	22	6029.70	1006	44
	Apr 2020	170	9	140	2	22	21	6038.94	1101	73
	May 2020	277	21	216	3	36	22	6052.62	1257	168
	Jun 2020	224	37	159	4	53	21	6059.24	1338	172
	Jul 2020	66	29	50	4	57	22	6056.60	1305	89
	Aug 2020	45	5	58	3	48	22	6055.34	1290	61
	Sep 2020	43	2	53	3	26	21	6055.64	1293	53
<b>WY 2020</b>		<b>1062</b>	<b>104</b>	<b>891</b>	<b>25</b>	<b>257</b>	<b>255</b>			<b>844</b>
	Oct 2020	47	2	46	2	0	22	6057.47	1316	50
	Nov 2020	34	2	25	1	0	21	6057.75	1319	39

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	299	483	29	740	0	740	3622.85	5179	14068	733
H	Jan 2018	262	442	9	860	0	860	3619.14	5147	13672	861
I	Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	750
S	Mar 2018	332	395	16	800	0	800	3612.23	5090	12956	835
T	Apr 2018	382	419	25	705	0	705	3609.39	5067	12669	738
O	May 2018	1214	968	29	705	0	705	3611.54	5085	12886	730
R	Jun 2018	883	635	45	760	0	760	3609.98	5072	12728	781
I	Jul 2018	123	252	53	860	0	860	3603.80	5023	12116	877
C	Aug 2018	11	260	50	900	0	900	3597.12	4972	11477	911
A	Sep 2018	1	230	45	670	0	670	3592.28	4936	11028	690
	<b>WY 2018</b>	<b>4612</b>	<b>5459</b>	<b>386</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9158</b>
L	Oct 2018	351	477	30	625	0	625	3590.46	4923	10862	650
*	Nov 2018	254	307	29	585	77	662	3586.50	4894	10507	668
	Dec 2018	240	329	23	740	0	740	3581.93	4862	10105	745
	Jan 2019	235	333	7	860	0	860	3576.13	4823	9611	871
	Feb 2019	260	335	7	740	0	740	3571.51	4792	9230	744
	Mar 2019	415	361	11	750	0	750	3566.91	4762	8860	755
	Apr 2019	620	528	18	635	0	635	3565.45	4753	8744	643
	May 2019	1260	1041	21	635	0	635	3569.92	4782	9101	641
	Jun 2019	2000	1628	35	700	0	700	3579.87	4848	9928	708
	Jul 2019	760	730	43	800	0	800	3578.64	4840	9824	819
	Aug 2019	370	476	42	860	0	860	3573.93	4808	9429	878
	Sep 2019	340	449	38	650	0	650	3571.23	4790	9207	661
	<b>WY 2019</b>	<b>7105</b>	<b>6994</b>	<b>303</b>	<b>8581</b>	<b>77</b>	<b>8658</b>				<b>8783</b>
	Oct 2019	455	471	26	480	0	480	3570.83	4788	9174	486
	Nov 2019	447	438	25	500	0	500	3569.82	4781	9093	500
	Dec 2019	363	423	20	600	0	600	3567.55	4767	8910	605
	Jan 2020	361	420	6	720	0	720	3563.95	4744	8627	731
	Feb 2020	393	432	6	640	0	640	3561.39	4728	8429	644
	Mar 2020	665	556	10	675	0	675	3559.82	4718	8310	680
	Apr 2020	1056	838	17	600	0	600	3562.49	4735	8514	608
	May 2020	2343	1966	21	600	0	600	3577.88	4834	9759	606
	Jun 2020	2666	2133	38	630	0	630	3593.23	4943	11115	638
	Jul 2020	1091	1018	48	710	0	710	3595.82	4962	11356	729
	Aug 2020	500	600	48	760	0	760	3593.74	4947	11163	778
	Sep 2020	408	538	44	565	0	565	3593.02	4941	11096	576
	<b>WY 2020</b>	<b>10747</b>	<b>9832</b>	<b>311</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7580</b>
	Oct 2020	512	579	31	640	0	640	3592.10	4935	11012	646
	Nov 2020	473	535	29	640	0	640	3590.74	4925	10887	640

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	594	-16	9	552	0	552	9.0	640.68	1636
H	Jan 2018	449	2	10	437	0	437	7.1	640.86	1641
I	Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
S	Mar 2018	833	-1	13	836	0	836	13.6	642.57	1687
T	Apr 2018	1015	-3	17	1001	0	1001	16.8	642.40	1682
O	May 2018	1055	-11	22	1001	0	1001	16.3	643.17	1703
R	Jun 2018	986	-21	26	909	0	909	15.3	644.29	1734
I	Jul 2018	820	-6	26	827	0	827	13.4	642.91	1696
C	Aug 2018	749	-13	23	730	0	730	11.9	642.29	1679
A	Sep 2018	725	-11	18	814	0	814	13.7	637.87	1561
	<b>WY 2018</b>	<b>9240</b>	<b>-103</b>	<b>198</b>	<b>8981</b>	<b>0</b>	<b>8981</b>			
L	Oct 2018	641	-11	15	635	0	635	10.3	637.08	1540
*	Nov 2018	690	-28	11	610	0	610	10.3	638.62	1581
	Dec 2018	472	-12	9	449	0	449	7.3	638.70	1583
	Jan 2019	554	-19	10	442	0	442	7.2	641.80	1666
	Feb 2019	710	-15	10	685	0	685	12.3	641.80	1666
	Mar 2019	996	-17	13	931	0	931	15.1	643.05	1700
	Apr 2019	1062	-20	17	1027	0	1027	17.3	643.00	1699
	May 2019	997	-12	22	963	0	963	15.7	643.00	1699
	Jun 2019	919	-15	25	878	0	878	14.8	643.00	1699
	Jul 2019	843	-15	25	830	0	830	13.5	642.00	1671
	Aug 2019	775	-12	23	740	0	740	12.0	642.00	1671
	Sep 2019	735	-12	18	758	0	758	12.7	640.01	1618
	<b>WY 2019</b>	<b>9393</b>	<b>-190</b>	<b>198</b>	<b>8948</b>	<b>0</b>	<b>8948</b>			
	Oct 2019	528	-4	15	693	0	693	11.3	633.00	1434
	Nov 2019	624	-12	10	550	0	550	9.2	635.00	1486
	Dec 2019	598	-12	9	479	0	479	7.8	638.71	1583
	Jan 2020	607	-19	10	496	0	496	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
	May 2020	917	-12	22	882	0	882	14.3	643.00	1699
	Jun 2020	929	-15	25	889	0	889	14.9	643.00	1699
	Jul 2020	813	-15	25	800	0	800	13.0	642.00	1671
	Aug 2020	773	-12	23	739	0	739	12.0	642.00	1671
	Sep 2020	701	-12	18	724	0	724	12.2	640.01	1618
	<b>WY 2020</b>	<b>9139</b>	<b>-166</b>	<b>197</b>	<b>8775</b>	<b>0</b>	<b>8775</b>			
	Oct 2020	473	-4	15	637	0	637	10.4	633.00	1434
	Nov 2020	634	-12	10	560	0	560	9.4	635.00	1486

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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)
*	Dec 2017	552	17	7	335	5.5	100	144	446.80	557	109	1.8
H	Jan 2018	437	3	6	329	5.3	29	90	445.81	539	125	2.0
I	Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
S	Mar 2018	836	-3	9	637	10.4	61	139	447.46	570	195	3.2
T	Apr 2018	1001	-8	11	735	12.4	75	168	447.13	564	175	2.9
O	May 2018	1001	10	13	697	11.3	87	178	448.51	590	124	2.0
R	Jun 2018	909	6	15	712	12.0	91	88	448.43	588	136	2.3
I	Jul 2018	827	20	17	656	10.7	101	72	448.00	580	133	2.2
C	Aug 2018	730	21	17	611	9.9	99	22	447.53	571	104	1.7
A	Sep 2018	814	9	15	512	8.6	95	164	448.95	598	94	1.6
	<b>WY 2018</b>	<b>8981</b>	<b>100</b>	<b>139</b>	<b>6479</b>		<b>910</b>	<b>1431</b>			<b>1504</b>	
L	Oct 2018	635	22	12	394	6.4	86	176	448.12	582	68	1.1
*	Nov 2018	610	17	9	357	6.0	85	173	447.99	580	97	1.6
	Dec 2018	449	18	7	270	4.4	71	144	446.50	552	104	1.7
	Jan 2019	442	21	6	279	4.5	85	88	446.50	552	125	2.0
	Feb 2019	685	11	8	441	7.9	77	165	446.50	552	152	2.7
	Mar 2019	931	7	9	720	11.7	16	181	446.70	555	192	3.1
	Apr 2019	1027	16	11	739	12.4	68	176	448.70	593	178	3.0
	May 2019	963	15	13	700	11.4	70	182	448.70	593	119	1.9
	Jun 2019	878	13	16	720	12.1	68	74	448.70	593	127	2.1
	Jul 2019	830	21	17	688	11.2	70	76	448.00	580	135	2.2
	Aug 2019	740	23	17	598	9.7	70	76	447.50	571	104	1.7
	Sep 2019	758	17	15	532	8.9	68	149	447.50	570	96	1.6
	<b>WY 2019</b>	<b>8948</b>	<b>201</b>	<b>140</b>	<b>6438</b>		<b>836</b>	<b>1657</b>			<b>1497</b>	
	Oct 2019	693	23	12	510	8.3	44	144	447.50	571	65	1.1
	Nov 2019	550	16	9	389	6.5	43	120	447.50	571	99	1.7
	Dec 2019	479	18	7	338	5.5	44	124	446.50	552	109	1.8
	Jan 2020	496	21	6	313	5.1	87	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	77	125	446.70	555	191	3.1
	Apr 2020	962	16	11	699	11.7	97	125	448.70	593	168	2.8
	May 2020	882	15	13	635	10.3	99	137	448.70	593	100	1.6
	Jun 2020	889	13	16	675	11.3	97	100	448.70	593	102	1.7
	Jul 2020	800	21	17	642	10.4	99	62	448.00	580	107	1.7
	Aug 2020	739	23	17	587	9.5	99	56	447.50	571	97	1.6
	Sep 2020	724	17	15	507	8.5	97	112	447.50	570	86	1.5
	<b>WY 2020</b>	<b>8775</b>	<b>200</b>	<b>139</b>	<b>6481</b>		<b>941</b>	<b>1309</b>			<b>1412</b>	
	Oct 2020	637	23	12	475	7.7	54	112	447.50	571	71	1.2
	Nov 2020	560	16	9	396	6.6	54	112	447.50	571	112	1.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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
*	Dec 2017	594	9.7	1082.52	10221	131	439.05	821.0	235.7	52	396.6
H	Jan 2018	449	7.3	1087.50	10642	421	442.14	834.0	176.5	51	392.9
I	Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
S	Mar 2018	833	13.5	1088.11	10694	-9	442.23	1005.9	333.9	62	400.8
T	Apr 2018	1015	17.1	1084.49	10387	-308	437.15	880.9	406.2	55	400.0
O	May 2018	1055	17.1	1080.00	10011	-376	432.39	1385.9	412.1	88	390.8
R	Jun 2018	986	16.6	1076.81	9748	-263	428.91	1552.0	378.6	100	384.1
I	Jul 2018	820	13.3	1077.43	9799	51	432.34	1552.0	313.2	100	382.0
C	Aug 2018	749	12.2	1078.88	9918	119	435.01	1562.0	287.4	100	383.8
A	Sep 2018	725	12.2	1078.29	9870	-49	434.15	1562.0	278.7	100	384.7
<b>WY 2018</b>		<b>9240</b>							<b>3614.3</b>		
L	Oct 2018	641	10.4	1078.52	9889	19	435.29	1406.1	247.8	87	386.7
*	Nov 2018	690	11.6	1078.32	9872	-16	434.47	755.0	266.1	49	385.8
	Dec 2018	472	7.7	1081.40	10127	255	433.40	959.9	185.1	61	392.3
	Jan 2019	554	9.0	1085.23	10449	322	435.58	1006.1	215.8	63	389.5
	Feb 2019	710	12.8	1086.17	10528	79	436.94	1006.1	285.8	63	402.5
	Mar 2019	996	16.2	1083.49	10303	-226	435.61	1010.0	399.5	63	401.2
	Apr 2019	1062	17.8	1078.51	9888	-414	431.82	925.9	430.7	60	405.6
	May 2019	997	16.2	1073.82	9505	-383	427.01	913.0	394.5	60	395.5
	Jun 2019	919	15.4	1070.40	9232	-274	418.71	1512.0	348.1	100	378.8
	Jul 2019	843	13.7	1069.67	9174	-58	416.98	1512.0	320.7	100	380.4
	Aug 2019	775	12.6	1070.81	9264	90	417.51	1528.0	292.7	100	377.8
	Sep 2019	735	12.3	1070.09	9207	-57	418.36	1528.0	277.5	100	377.7
<b>WY 2019</b>		<b>9393</b>							<b>3664.2</b>		
	Oct 2019	528	8.6	1069.52	9161	-45	421.29	1341.0	196.6	88	372.0
	Nov 2019	624	10.5	1068.05	9045	-116	423.33	1219.0	239.4	81	383.3
	Dec 2019	598	9.7	1068.07	9047	2	421.30	1140.0	226.5	75	379.1
	Jan 2020	607	9.9	1069.83	9186	139	420.56	1056.0	230.8	70	380.0
	Feb 2020	663	11.5	1070.15	9212	25	421.40	950.0	254.7	62	384.1
	Mar 2020	988	16.1	1066.49	8923	-289	417.36	1210.0	372.2	81	376.8
	Apr 2020	997	16.8	1061.51	8538	-385	411.60	1390.9	370.0	91	370.9
	May 2020	917	14.9	1057.08	8203	-335	410.24	844.5	347.7	60	379.2
	Jun 2020	929	15.6	1052.44	7860	-343	401.53	1386.8	336.9	100	362.6
	Jul 2020	813	13.2	1051.01	7756	-104	398.85	1378.6	294.0	100	361.6
	Aug 2020	773	12.6	1051.13	7765	9	398.53	1379.4	278.2	100	359.7
	Sep 2020	701	11.8	1049.75	7665	-100	398.55	1371.5	250.4	100	357.5
<b>WY 2020</b>		<b>9139</b>							<b>3397.4</b>		
	Oct 2020	473	7.7	1052.01	7828	164	402.53	1215.1	172.4	88	364.6
	Nov 2020	634	10.7	1052.16	7840	12	406.76	1108.6	230.6	81	363.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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
*	Dec 2017	552	9.0	640.68	1636	17	139.44	131.6	69.5	52	126.0
H	Jan 2018	437	7.1	640.86	1641	5	141.78	159.6	55.0	63	125.9
I	Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
S	Mar 2018	836	13.6	642.57	1687	-17	139.99	189.2	105.4	74	126.1
T	Apr 2018	1001	16.8	642.40	1682	-5	141.14	207.4	125.1	81	125.0
O	May 2018	1001	16.3	643.17	1703	21	141.89	204.0	126.2	80	126.1
R	Jun 2018	909	15.3	644.29	1734	31	143.00	255.0	115.0	100	126.6
I	Jul 2018	827	13.4	642.91	1696	-38	141.79	255.0	105.3	100	127.4
C	Aug 2018	730	11.9	642.29	1679	-17	141.02	255.0	92.7	100	127.1
A	Sep 2018	814	13.7	637.87	1561	-119	136.59	255.0	101.2	100	124.3
<b>WY 2018</b>		<b>8981</b>							<b>1126.3</b>		
L	Oct 2018	635	10.3	637.08	1540	-21	135.95	184.3	77.8	72	122.4
*	Nov 2018	610	10.3	638.62	1581	40	137.20	158.1	78.4	62	128.4
	Dec 2018	449	7.3	638.70	1583	2	134.67	153.0	55.7	60	124.1
	Jan 2019	442	7.2	641.80	1666	83	135.09	189.2	55.5	74	125.6
	Feb 2019	685	12.3	641.80	1666	0	136.12	207.6	85.7	81	125.1
	Mar 2019	931	15.1	643.05	1700	34	136.76	207.3	116.1	81	124.7
	Apr 2019	1027	17.3	643.00	1699	-1	136.60	234.6	127.9	92	124.6
	May 2019	963	15.7	643.00	1699	0	136.04	255.0	120.4	100	125.1
	Jun 2019	878	14.8	643.00	1699	0	136.04	255.0	110.1	100	125.4
	Jul 2019	830	13.5	642.00	1671	-27	135.51	255.0	104.0	100	125.3
	Aug 2019	740	12.0	642.00	1671	0	134.99	255.0	92.8	100	125.3
	Sep 2019	758	12.7	640.01	1618	-54	133.94	255.0	94.1	100	124.2
<b>WY 2019</b>		<b>8948</b>							<b>1118.5</b>		
	Oct 2019	693	11.3	633.00	1434	-183	131.28	185.9	83.6	73	120.7
	Nov 2019	550	9.2	635.00	1486	51	129.81	153.0	65.6	60	119.2
	Dec 2019	479	7.8	638.71	1583	97	131.17	200.7	58.6	79	122.3
	Jan 2020	496	8.1	641.80	1666	83	134.32	213.9	62.1	84	125.3
	Feb 2020	638	11.1	641.80	1666	0	136.12	207.6	80.1	81	125.5
	Mar 2020	923	15.0	643.05	1700	34	136.76	207.3	115.2	81	124.8
	Apr 2020	962	16.2	643.00	1699	-1	136.60	234.6	120.2	92	124.9
	May 2020	882	14.3	643.00	1699	0	136.04	255.0	110.7	100	125.5
	Jun 2020	889	14.9	643.00	1699	0	136.04	255.0	111.3	100	125.3
	Jul 2020	800	13.0	642.00	1671	-27	135.51	255.0	100.3	100	125.5
	Aug 2020	739	12.0	642.00	1671	0	134.99	255.0	92.6	100	125.4
	Sep 2020	724	12.2	640.01	1618	-54	133.94	255.0	90.0	100	124.4
<b>WY 2020</b>		<b>8775</b>							<b>1090.4</b>		
	Oct 2020	637	10.4	633.00	1434	-183	131.28	185.9	77.1	73	121.0
	Nov 2020	560	9.4	635.00	1486	51	129.81	153.0	66.7	60	119.1

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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
*	Dec 2017	335	5.5	446.80	557	-20	81.55	92.9	22.5	77	67.0
H	Jan 2018	329	5.3	445.81	539	-18	80.05	117.1	22.8	98	69.2
I	Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
S	Mar 2018	638	10.4	447.46	570	-20	81.79	102.6	44.9	85	70.4
T	Apr 2018	735	12.4	447.13	564	-6	81.11	120.0	50.8	100	69.1
O	May 2018	697	11.3	448.51	590	26	82.36	120.0	48.5	100	69.6
R	Jun 2018	712	12.0	448.43	588	-1	80.33	120.0	49.7	100	69.9
I	Jul 2018	656	10.7	448.00	580	-8	81.97	120.0	46.0	100	70.2
C	Aug 2018	611	9.9	447.53	571	-9	79.27	120.0	42.7	100	69.9
A	Sep 2018	512	8.6	448.95	598	27	83.02	120.0	35.9	100	70.1
<b>WY 2018</b>		<b>6479</b>							<b>451.7</b>		
L	Oct 2018	394	6.4	448.12	582	-16	82.83	90.0	27.9	75	70.9
*	Nov 2018	350	6.0	447.99	580	-3	82.25	93.0	26.1	78	74.4
	Dec 2018	270	4.4	446.50	552	-28	74.80	116.1	16.9	97	62.6
	Jan 2019	279	4.5	446.50	552	0	75.27	91.0	17.7	76	63.2
	Feb 2019	441	7.9	446.50	552	0	75.21	92.1	28.8	77	65.3
	Mar 2019	720	11.7	446.70	555	4	74.05	119.0	46.8	99	65.0
	Apr 2019	739	12.4	448.70	593	38	75.08	120.0	48.7	100	65.9
	May 2019	700	11.4	448.70	593	0	76.05	120.0	46.6	100	66.5
	Jun 2019	720	12.1	448.70	593	0	76.05	120.0	47.9	100	66.6
	Jul 2019	688	11.2	448.00	580	-13	75.71	120.0	45.5	100	66.2
	Aug 2019	598	9.7	447.50	571	-9	75.13	120.0	39.2	100	65.4
	Sep 2019	532	8.9	447.50	570	0	74.89	120.0	34.6	100	65.1
<b>WY 2019</b>		<b>6432</b>							<b>426.6</b>		
	Oct 2019	510	8.3	447.50	571	0	76.29	90.0	33.8	75	66.2
	Nov 2019	389	6.5	447.50	571	0	76.14	93.0	25.4	78	65.3
	Dec 2019	338	5.5	446.50	552	-19	74.65	114.2	21.4	95	63.5
	Jan 2020	313	5.1	446.50	552	0	75.07	94.8	19.9	79	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	74.01	120.0	45.9	100	64.9
	Apr 2020	699	11.7	448.70	593	38	75.08	120.0	46.0	100	65.8
	May 2020	635	10.3	448.70	593	0	76.05	120.0	42.1	100	66.3
	Jun 2020	675	11.3	448.70	593	0	76.05	120.0	44.9	100	66.5
	Jul 2020	642	10.4	448.00	580	-13	75.71	120.0	42.4	100	66.0
	Aug 2020	587	9.5	447.50	571	-9	75.13	120.0	38.4	100	65.4
	Sep 2020	507	8.5	447.50	570	0	74.89	120.0	32.9	100	65.0
<b>WY 2020</b>		<b>6481</b>							<b>424.4</b>		
	Oct 2020	475	7.7	447.50	571	0	76.29	90.0	31.4	75	66.0
	Nov 2020	396	6.6	447.50	571	0	76.19	92.0	25.9	77	65.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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
* Dec 2017	339	68	27	33	19	6
H Jan 2018	394	68	17	21	12	6
I Feb 2018	335	60	9	12	3	5
S 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>
T Apr 2018	318	39	23	27	16	5
O May 2018	318	63	23	33	20	7
R Jun 2018	343	50	27	34	20	8
I Jul 2018	384	48	27	36	20	8
C Aug 2018	393	50	24	33	19	7
A Sep 2018	288	47	8	29	16	1
<b>Summer 2018</b>	<b>2045</b>	<b>297</b>	<b>133</b>	<b>193</b>	<b>111</b>	<b>36</b>
L Oct 2018	268	39	11	19	9	4
* Nov 2018	248	36	5	4	2	5
Dec 2018	283	45	5	4	2	5
Jan 2019	325	45	5	7	4	5
Feb 2019	276	41	4	6	3	4
Mar 2019	278	22	4	7	4	4
<b>Winter 2019</b>	<b>1678</b>	<b>228</b>	<b>34</b>	<b>48</b>	<b>24</b>	<b>25</b>
Apr 2019	233	22	11	18	10	4
May 2019	234	22	27	43	23	5
Jun 2019	261	50	10	19	13	8
Jul 2019	302	31	20	27	14	10
Aug 2019	321	38	21	28	14	6
Sep 2019	242	37	19	25	13	3
<b>Summer 2019</b>	<b>1594</b>	<b>201</b>	<b>107</b>	<b>160</b>	<b>88</b>	<b>37</b>
Oct 2019	178	25	12	16	9	6
Nov 2019	185	24	4	5	3	6
Dec 2019	221	40	4	6	4	6
Jan 2020	263	40	4	6	4	5
Feb 2020	232	38	4	5	0	5
Mar 2020	244	29	0	7	4	5
<b>Winter 2020</b>	<b>1323</b>	<b>196</b>	<b>26</b>	<b>45</b>	<b>23</b>	<b>33</b>
Apr 2020	217	28	0	17	10	5
May 2020	222	34	2	80	23	7
Jun 2020	240	76	7	16	13	8
Jul 2020	276	45	28	35	19	10
Aug 2020	296	45	31	37	19	9
Sep 2020	220	44	30	36	19	2
<b>Summer 2020</b>	<b>1252</b>	<b>228</b>	<b>68</b>	<b>184</b>	<b>85</b>	<b>39</b>
Oct 2020	249	45	20	24	13	8
Nov 2020	247	44	11	14	7	7

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 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
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Dec 2018	561	579	808	13815	15763	17505	33268	561	579	808	1948	13815	17505	33268	4580	472	0	27.1
Jan 2019	653	581	818	14217	16268	17250	33518	653	581	818	2051	14217	17250	33518	5350	554	0	26.9
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2019	653	581	818	14217	16268	17250	33518	234	234	275	744	14217	17250	32210	5350	554	0	26.9
Feb 2019	740	584	829	14711	16863	16928	33791	321	238	286	845	14711	16928	32483	1500	710	0	26.6
Mar 2019	812	587	832	15092	17323	16849	34172	393	240	288	921	15092	16849	32862	1500	996	0	26.0
Apr 2019	791	579	817	15462	17649	17074	34723	367	233	267	866	15462	17074	33403	1500	1062	0	25.6
May 2019	752	573	791	15578	17694	17489	35183	321	226	218	765	15578	17489	33832	1500	997	0	25.8
Jun 2019	664	544	726	15221	17155	17872	35027	223	185	115	522	15221	17872	33615	1500	919	0	26.7
Jul 2019	543	390	675	14394	16002	18145	34147	90	8	9	106	14394	18145	32645	1500	843	0	26.5
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2019	471	380	726	14498	16076	18203	34280	471	380	726	1578	14498	18203	34280	1500	775	0	26.1
Sep 2019	516	403	752	14893	16564	18113	34677	516	403	752	1671	14893	18113	34677	2270	735	0	25.7
Oct 2019	580	431	758	15115	16885	18170	35055	580	431	758	1769	15115	18170	35055	3040	528	0	25.4
Nov 2019	603	439	751	15148	16940	18216	35156	603	439	751	1792	15148	18216	35156	3810	624	0	25.2
Dec 2019	624	422	748	15229	17023	18332	35354	624	422	748	1794	15229	18332	35354	4580	598	0	25.1
Jan 2020	700	409	750	15412	17271	18330	35601	700	409	750	1859	15412	18330	35601	5350	607	0	24.9
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2020	700	409	750	15412	17271	18330	35601	372	375	548	1295	15412	18330	35037	5350	607	0	24.9
Feb 2020	772	398	754	15695	17618	18191	35808	443	364	551	1358	15695	18191	35243	1500	663	0	24.7
Mar 2020	832	387	747	15893	17859	18165	36025	502	354	544	1400	15893	18165	35458	1500	988	0	24.4
Apr 2020	815	362	690	16012	17879	18454	36334	479	332	481	1292	16012	18454	35759	1500	997	0	24.5
May 2020	766	321	595	15808	17489	18839	36328	423	290	361	1074	15808	18839	35721	1500	917	0	25.7
Jun 2020	625	295	439	14563	15922	19174	35096	270	264	166	701	14563	19174	34438	1500	929	0	27.2
Jul 2020	457	71	358	13207	14092	19517	33609	87	27	28	142	13207	19517	32866	1500	813	0	27.4
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2020	387	55	391	12966	13800	19621	33421	387	55	391	834	12966	19621	33421	1500	773	0	27.1
Sep 2020	436	94	406	13159	14096	19612	33708	436	94	406	937	13159	19612	33708	2270	701	0	26.7
Oct 2020	512	155	403	13226	14295	19712	34007	512	155	403	1070	13226	19712	34007	3040	473	0	26.5
Nov 2020	583	183	380	13310	14457	19549	34005	583	183	380	1146	13310	19549	34005	3810	634	0	26.4

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