December 24-Month Study
Date: December 8, 2017

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 7, Midnight Elevation (feet)	December 7, Midnight Reservoir Storage (acre-feet)
Fontenelle	62,000	148	6,490.62	231,000
Flaming Gorge	82,000	160	6,031.53	3,408,000
Blue Mesa	32,000	106	7,498.19	647,000
Navajo	19,000	56	6,054.75	1,282,000
Powell	387,000	82	3,624.73	14,271,000

Expected Operations

The operation of Lake Powell and Lake Mead in this December 2017 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines) and reflects the 2017 Annual Operating Plan (AOP) and draft 2018 AOP. Pursuant to the Interim Guidelines, the August 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 operational tier for water year 2018 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 2018. This December 2017 24-Month Study indicates that, consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is projected to occur and Lake Powell is projected to release 9.0 maf in water year 2018.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar years 2017 and 2018.

The 2018 operational tier determinations will be documented in the 2018 AOP, which is currently in the final stages of development.

The Interim Guidelines are available for download at:
http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf
The 2017 AOP is available for download at:
http://www.usbr.gov/lc/region/g4000/aop/AOP17.pdf
The draft 2018 AOP is available for download at:
https://www.usbr.gov/lc/region/g4000/AOP2018/AOP18_draft.pdf

Fontenelle Reservoir – Fontenelle Reservoir is currently at elevation 6491 feet above sea level (feet), which amounts to 67 percent of live storage capacity. Inflows for the month of November totaled 62,100 acre-feet (af), or 148 percent of average. Average to above average inflows are forecasted over the next few months and releases have been increased in order to meet the spring elevation target. Releases have been increased to base flow levels of 1,300 cubic feet per second (cfs) and are forecasted to remain at this level through the winter, subject to hydrology.

The Colorado Basin River Forecast Center has forecasted spring inflows that are above average. December, January and February forecasted inflow volumes amount to 50,000 af (156 percent of average), 45,000 af (148 percent of average), and 40,000 af (145 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., April 17, 2018. The meeting will be held at Seedskadee Wildlife Refuge Headquarters, Wyoming. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

Flaming Gorge Reservoir – Releases increased from 1,500 cfs to steady 2,800 cfs with two generating units available.

Unregulated inflow into Flaming Gorge Reservoir during the month of November was 82,000 af, or 159 percent of average. The reservoir elevation is 6,031.69 (91 percent of live capacity) and decreasing. The observed April-July unregulated inflow volume into Flaming Gorge Reservoir was 2.214 maf (226 percent of average). This is the second highest inflow volume into Flaming Gorge with the record volume inflow in 1986 at 2.26 maf (232 percent of average). March 2017 was approximately 400 percent of average and the March-July volume sets a historic inflow volume for Flaming Gorge.

The December final forecast for inflows for the next three months projects above average conditions: December, January, and February forecasted inflow volumes at 56,000 af (161 percent of average), 62,000 af (154 percent of average), and 60,000 af (135 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 Heather Patno at 801-524-3883.

Reclamation will be holding the next Flaming Gorge Working Group meeting on Thursday, March 8, 2018, at 7:00 p.m. at the Lighthouse Learning Center High School (gymnasium), 251 West 400 North, Price, Utah, and the next on April 19, 2018, at 11:00 a.m. at the UDWR offices 318 North Vernal Ave, Vernal, Utah.

Aspinall Unit Reservoirs – Releases from Crystal Dam are approximately 1600 cfs. Uncompahgre Valley Water Users Association shut down the Gunnison Tunnel on November 1, 2017 so all releases from Crystal are now flowing through the Black Canyon. Blue Mesa Reservoir elevation is 7598.19 feet which corresponds to a storage content 646,500 acre-feet (78 percent of full capacity). Releases from Crystal will remain at the current level to the end of December. In January, releases will likely be decreased to approximately 1,100 cfs.

The November unregulated inflow to Blue Mesa Reservoir was 32,464 af (105 percent of average). Unregulated Inflows to Blue Mesa for the next three months (December, January and February) are projected to be: 31,000 af (119 percent of average), 26,000 af (100 percent of average) and 23,000 af (96 percent of average), respectively. For water year 2018, the unregulated inflow volume is forecasted to be 754,000 af (78 percent of average) with 490,000 af (72 percent of average) forecasted unregulated inflow during the April through July period. The December 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, January 18, 2018 at 1:00 p.m. at the Holiday Inn Express located in Montrose, Colorado.

Navajo Reservoir – As of December 6, 2017, the daily average release at Navajo is 389 cfs, and the observed inflow is 92 cfs. The reservoir elevation is 6054.81 feet (1,283,166 af), and is 75 percent full (60 percent of active storage). The San Juan River at Four

Corners USGS gage is at 665 cfs. The Animas River at Farmington USGS gage is at 230 cfs. Releases are made for the authorized purposes of the Navajo Unit, and pursuant to the 2006 Record of Decision, in an attempt to maintain a target base flow through the endangered fish critical habitat reach of the San Juan River (Farmington to Lake Powell). The San Juan River Basin Recovery Implementation Program (SJRIP) recommends a target base flow of between 500 cfs and 1,000 cfs through the critical habitat area. The target base flow is calculated as the weekly average of gaged flows throughout the critical habitat area.

Modified unregulated inflow into Navajo for November was 18,900 af, which was 57 percent of average for the month. The most probable modified-unregulated inflow forecast for December at Navajo is 19,000 af (76 percent of average), for January is 18,000 af (82 percent of average), and for January is 20,800 af (69 percent of average). Releases for the remainder of the winter will be made to maintain the target baseflow in the critical habitat reach and will likely range between 400 and 600 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 January 23, 2018, at 1:00 p.m. at the Farmington Civic Center, Farmington, NM.

Glen Canyon Dam / Lake Powell

Current Status

The unregulated inflow volume to Lake Powell in November was 388 thousand acre-feet (kaf) (82 percent of average). The release volume from Glen Canyon Dam in November was 630 kaf. The end of November elevation and storage of Lake Powell were 3,625.29 feet (75 feet from full pool) and 14.33 maf (59 percent of full capacity), respectively. The reservoir elevation is now declining and is expected to continue to decline until spring 2018.

Current Operations

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

at Glen Canyon Dam to achieve as practicably as possible the appropriate total annual release volume by September 30, 2018.

In December 2018, the release volume will be approximately 740 kaf, with fluctuations anticipated between about 7,300 cfs in the nighttime to about 14,000 cfs in the daytime and consistent with the revised Glen Canyon Operating Criteria (27-Sep-2017) (https://www.usbr.gov/uc/water/crsp/studies/GCOC.pdf). The anticipated release volume for January is 860 kaf with daily fluctuations between approximately 9,100 cfs and 16,850 cfs. The expected release for February is 730 kaf with daily fluctuations between approximately 10,500 cfs and 13,900 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 forecast for water year 2018 unregulated inflow to Lake Powell, issued on December 1, 2017, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume next year will be 7.64 maf (71 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 7.0 maf (65 percent of average) to a maximum probable of 17.5 maf (162 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 2018 near 3,614 feet with approximately 13.2 maf in storage (54 percent of capacity). Note that projections of elevation and storage for water year 2018 have significant uncertainty at this point in the season. Projections of elevation and storage using the minimum and maximum probable inflow forecast are 3,612 feet

(12.9 maf, 53 percent of capacity) and 3,654 feet (17.7 maf, 73 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 2018 is projected to be 9.0 maf under the minimum and most probable inflow scenarios and 13.56 maf under the maximum probable inflow scenario. There is a chance that inflows could be higher or lower, potentially resulting in releases greater than 13.56 maf or as low as 8.23 maf in water year 2018.

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 7.64 maf (71 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 30.7 maf (52 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 October minimum and maximum probable inflow forecasts and modeling, the range of end of water year 2018 total system capacity is approximately 30.06 maf (50 percent of capacity) to 35.47 maf (59 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		nov	Forecast		
:	aug	sep	oct	nov	%Avg	dec	jan	feb
GLDA3:Lake Powell	446	196	449	387	82%:	360/	340/	360/
GBRW4:Fontenelle	102	66	73	62	147%:	50/	45/	40/
GRNU1:Flaming Gorge	120	87	88	82	159%:	56/	62/	60/
BMDC2:Blue Mesa	84	35	37	33	106%:	31/	26/	23/
MPSC2:Morrow Point	86	35	38	34	102%:	31/	26/	24/
CLSC2:Crystal	89	39	43	38	100%:	36/	30/	28/
TPIC2:Taylor Park	12.1	7.7	8.4	5.9	115%:	5.5/	5/	4/
VCRC2:Vallecito	18.8	8.6	8.6	5.1	58%:	5.5/	4.5/	4/
NVRN5:Navajo	30	8.7	38	18.9	56%:	19/	18/	21/
LEMC2:Lemon	4.1	1.73	1.31	0.73	43%:	0.8/	0.7/	0.5/
MPHC2:McPhee	15.3	8.4	2.9	1.88	31%:	3.5/	3.5/	3.5/
RBSC2:Ridgway	11.7	5.3	6.3	5.0	89%:	4/	4/	3.5/

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir

	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2016	37	1	0	63	63	6486.33	203
H	Jan 2017	45	1	0	63	63	6483.20	184
I	Feb 2017	51	1	0	57	57	6482.06	178
S	Mar 2017	180	1	0	150	150	6486.90	207
T	Apr 2017	225	1	0	304	304	6472.17	128
O	May 2017	430	1	54	373	427	6472.55	129
R	Jun 2017	732	2	74	469	543	6502.49	317
I	Jul 2017	332	3	88	230	319	6503.83	328
C	Aug 2017	102	2	95	61	156	6496.34	271
A	Sep 2017	66	2	69	4	72	6495.21	263
	WY 2017	**2319**	**15**	**379**	**1890**	**2270**		
L	Oct 2017	73	1	80	0	80	6494.03	255
*	Nov 2017	62	1	78	0	78	6491.65	238
	Dec 2017	50	1	80	0	80	6486.90	208
	Jan 2018	45	1	80	0	80	6480.91	172
	Feb 2018	40	1	73	0	73	6474.40	139
	Mar 2018	60	0	85	0	85	6468.61	113
	Apr 2018	90	1	89	0	89	6468.65	113
	May 2018	180	1	97	43	140	6477.24	153
	Jun 2018	335	2	101	89	190	6499.54	295
	Jul 2018	225	3	101	73	174	6505.75	344
	Aug 2018	90	2	101	37	138	6499.28	293
	Sep 2018	55	2	65	0	65	6497.62	281
	WY 2018	**1305**	**15**	**1032**	**241**	**1273**		
	Oct 2018	55	1	68	0	68	6495.72	268
	Nov 2018	45	1	65	0	65	6492.70	246
	Dec 2018	32	1	68	0	68	6487.21	210
	Jan 2019	30	1	68	0	68	6480.93	172
	Feb 2019	28	1	61	0	61	6474.25	138
	Mar 2019	53	0	78	0	78	6468.34	112
	Apr 2019	85	1	82	0	82	6468.94	115
	May 2019	164	1	97	23	121	6478.02	156
	Jun 2019	299	2	101	64	165	6498.62	289
	Jul 2019	178	3	102	21	123	6505.35	340
	Aug 2019	77	2	100	3	103	6501.66	312
	Sep 2019	46	2	71	0	71	6498.02	284
	WY 2019	**1091**	**15**	**962**	**111**	**1073**		
	Oct 2019	49	1	74	0	74	6494.36	258
	Nov 2019	42	1	71	0	71	6489.87	228

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Flaming Gorge Reservoir

	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
H	Jan 2017	49	67	2	110	0	110	124	6023.01	3087	149
I	Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
S	Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
T	Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
O	May 2017	582	580	8	278	171	449	129	6026.15	3203	857
R	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	314
C	Aug 2017	120	174	13	143	0	143	143	6035.05	3548	172
A	Sep 2017	87	93	11	141	0	141	140	6033.63	3491	160
	WY 2017	**3153**	**3104**	**81**	**2016**	**712**	**2728**				**4222**
L	Oct 2017	88	95	8	107	0	107	140	6033.17	3473	157
*	Nov 2017	82	98	4	139	0	139	138	6032.07	3430	179
	Dec 2017	56	86	2	172	0	172	135	6029.91	3345	197
	Jan 2018	62	97	2	172	0	172	132	6027.98	3272	194
	Feb 2018	60	93	2	156	0	156	129	6026.32	3209	178
	Mar 2018	120	145	3	131	0	131	130	6026.60	3220	192
	Apr 2018	135	134	5	126	0	126	130	6026.68	3223	276
	May 2018	240	200	8	131	0	131	132	6028.25	3282	541
	Jun 2018	400	255	10	193	0	193	134	6029.54	3331	573
	Jul 2018	250	199	14	218	0	218	133	6028.73	3300	283
	Aug 2018	100	148	13	101	0	101	134	6029.58	3333	119
	Sep 2018	62	72	11	98	0	98	133	6028.65	3297	110
	WY 2018	**1655**	**1623**	**81**	**1744**	**0**	**1744**				**2999**
	Oct 2018	64	77	7	101	0	101	131	6027.83	3266	126
	Nov 2018	53	74	3	98	0	98	130	6027.13	3239	126
	Dec 2018	35	71	2	101	0	101	129	6026.29	3208	127
	Jan 2019	40	78	2	101	0	101	128	6025.63	3184	127
	Feb 2019	45	78	2	92	0	92	128	6025.22	3168	120
	Mar 2019	102	128	3	101	0	101	128	6025.82	3191	178
	Apr 2019	134	130	5	98	0	98	129	6026.53	3217	313
	May 2019	245	202	8	101	0	101	133	6028.89	3307	633
	Jun 2019	390	255	11	157	0	157	136	6031.08	3391	578
	Jul 2019	210	156	14	149	0	149	136	6030.90	3384	249
	Aug 2019	89	115	13	98	0	98	136	6031.00	3388	124
	Sep 2019	55	81	11	95	0	95	135	6030.36	3363	114
	WY 2019	**1462**	**1444**	**80**	**1295**	**0**	**1295**				**2814**
	Oct 2019	59	84	7	98	0	98	134	6029.82	3342	131
	Nov 2019	51	80	3	98	0	98	134	6029.28	3321	130

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
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December 2017 24-Month Study

Most Probable Inflow*

Taylor Park Reservoir

	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2016	5	5	9309.56	69
H	Jan 2017	6	5	9309.76	70
I	Feb 2017	4	5	9309.43	69
S	Mar 2017	6	6	9309.23	69
T	Apr 2017	13	9	9312.04	73
O	May 2017	30	19	9318.55	84
R	Jun 2017	62	45	9327.76	102
I	Jul 2017	24	26	9326.95	100
C	Aug 2017	12	25	9320.31	88
A	Sep 2017	8	18	9314.58	77
	WY 2017	**179**	**173**		
L	Oct 2017	8	8	9314.93	78
*	Nov 2017	6	6	9315.09	78
	Dec 2017	6	6	9314.80	78
	Jan 2018	5	6	9314.21	77
	Feb 2018	4	6	9313.01	75
	Mar 2018	5	6	9312.10	73
	Apr 2018	7	8	9311.49	72
	May 2018	23	15	9316.25	80
	Jun 2018	37	21	9324.98	96
	Jul 2018	14	22	9321.01	89
	Aug 2018	8	18	9315.38	79
	Sep 2018	6	15	9309.93	70
	WY 2018	**128**	**136**		
	Oct 2018	6	6	9309.82	70
	Nov 2018	5	6	9309.06	68
	Dec 2018	5	6	9308.21	67
	Jan 2019	4	6	9307.13	65
	Feb 2019	4	6	9305.67	63
	Mar 2019	4	6	9304.62	62
	Apr 2019	9	6	9306.47	64
	May 2019	28	20	9311.75	73
	Jun 2019	42	22	9322.96	92
	Jul 2019	20	22	9321.97	91
	Aug 2019	10	20	9316.59	81
	Sep 2019	7	16	9311.46	72
	WY 2019	**144**	**142**		
	Oct 2019	7	8	9310.63	71
	Nov 2019	5	6	9310.07	70

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

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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 2016	26	26	0	35	0	35	7491.43	593
H	Jan 2017	29	28	0	34	0	34	7490.68	587
I	Feb 2017	28	29	0	44	1	44	7488.71	571
S	Mar 2017	70	70	0	69	0	70	7488.71	571
T	Apr 2017	145	140	1	53	0	53	7499.55	658
O	May 2017	244	233	1	151	65	293	7491.98	597
R	Jun 2017	392	373	1	139	35	175	7515.35	793
I	Jul 2017	135	137	2	113	0	110	7518.20	819
C	Aug 2017	84	96	1	111	0	111	7516.38	802
A	Sep 2017	35	45	1	115	0	114	7508.43	732
	WY 2017	**1245**	**1238**	**9**	**987**	**101**	**1163**		
L	Oct 2017	37	37	1	102	0	102	7500.64	667
*	Nov 2017	32	32	0	40	0	40	7499.68	659
	Dec 2017	31	32	0	91	0	91	7492.31	599
	Jan 2018	26	27	0	64	0	64	7487.47	562
	Feb 2018	23	25	0	39	0	39	7485.67	548
	Mar 2018	34	36	0	41	0	41	7484.90	542
	Apr 2018	61	62	1	52	0	52	7486.09	551
	May 2018	149	141	1	94	0	94	7491.97	597
	Jun 2018	205	189	1	49	0	49	7508.76	735
	Jul 2018	75	83	2	82	0	82	7508.61	734
	Aug 2018	45	55	1	87	0	87	7504.68	700
	Sep 2018	36	45	1	79	0	79	7500.50	665
	WY 2018	**754**	**762**	**9**	**820**	**0**	**820**		
	Oct 2018	37	37	1	54	0	54	7498.35	648
	Nov 2018	31	32	0	46	0	46	7496.54	633
	Dec 2018	26	27	0	76	0	76	7490.38	584
	Jan 2019	24	26	0	70	0	70	7484.62	540
	Feb 2019	22	25	0	30	0	30	7483.89	535
	Mar 2019	36	38	0	31	0	31	7484.65	540
	Apr 2019	77	74	1	42	0	42	7488.81	572
	May 2019	221	213	1	152	0	152	7496.33	631
	Jun 2019	261	241	1	81	0	81	7515.09	791
	Jul 2019	117	119	2	99	0	99	7517.09	809
	Aug 2019	63	73	1	108	0	108	7513.02	772
	Sep 2019	38	47	1	93	0	93	7507.58	725
	WY 2019	**953**	**951**	**9**	**883**	**0**	**883**		
	Oct 2019	38	40	1	65	0	65	7504.48	699
	Nov 2019	31	32	0	35	0	35	7504.13	696

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Morrow Point Reservoir

	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2016	27	35	1	36	34	0	34	7150.44	109
H	Jan 2017	30	34	2	36	33	0	33	7153.75	112
I	Feb 2017	29	44	1	45	55	0	55	7140.48	102
S	Mar 2017	74	70	5	74	64	0	68	7148.96	108
T	Apr 2017	157	53	12	66	65	0	65	7149.64	109
O	May 2017	263	293	19	312	203	0	312	7149.70	109
R	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
C	Aug 2017	86	111	2	113	0	0	115	7152.68	111
A	Sep 2017	35	114	0	115	92	0	112	7155.62	114
	WY 2017	**1314**	**1163**	**69**	**1232**	**893**	**0**	**1226**		
L	Oct 2017	38	102	1	103	105	0	105	7153.17	112
*	Nov 2017	34	40	1	41	42	0	42	7152.45	111
	Dec 2017	31	91	0	91	90	0	90	7153.73	112
	Jan 2018	26	64	0	64	64	0	64	7153.73	112
	Feb 2018	24	39	1	40	40	0	40	7153.73	112
	Mar 2018	36	41	2	43	43	0	43	7153.73	112
	Apr 2018	71	52	10	62	62	0	62	7153.73	112
	May 2018	165	94	16	110	110	0	110	7153.73	112
	Jun 2018	220	49	15	64	64	0	64	7153.73	112
	Jul 2018	79	82	4	86	86	0	86	7153.73	112
	Aug 2018	47	87	2	89	89	0	89	7153.73	112
	Sep 2018	36	79	0	79	79	0	79	7153.73	112
	WY 2018	**807**	**820**	**52**	**873**	**874**	**0**	**874**		
	Oct 2018	38	54	1	55	55	0	55	7153.73	112
	Nov 2018	32	46	1	48	48	0	48	7153.73	112
	Dec 2018	28	76	2	78	78	0	78	7153.73	112
	Jan 2019	27	70	2	72	72	0	72	7153.73	112
	Feb 2019	25	30	3	32	32	0	32	7153.73	112
	Mar 2019	40	31	4	36	36	0	36	7153.73	112
	Apr 2019	88	42	11	53	53	0	53	7153.73	112
	May 2019	247	152	26	178	178	0	178	7153.73	112
	Jun 2019	281	81	20	101	101	0	101	7153.73	112
	Jul 2019	123	99	6	105	105	0	105	7153.73	112
	Aug 2019	67	108	3	112	112	0	112	7153.73	112
	Sep 2019	41	93	3	96	96	0	96	7153.73	112
	WY 2019	**1036**	**883**	**83**	**965**	**965**	**0**	**965**		
	Oct 2019	41	65	3	68	68	0	68	7153.73	112
	Nov 2019	33	35	2	37	37	0	37	7153.73	112

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Crystal Reservoir

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

	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 2016	31	34	4	38	36	1	37	6751.45	17	0	37
H	Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
I	Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
S	Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	67
T	Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
O	May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
R	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
C	Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
A	Sep 2017	39	112	4	116	115	0	115	6748.63	16	59	56
	WY 2017	**1423**	**1226**	**109**	**1335**	**751**	**350**	**1334**			**413**	**929**
L	Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
*	Nov 2017	38	42	4	46	46	0	46	6749.89	16	1	46
	Dec 2017	36	90	5	95	94	0	94	6753.04	17	0	94
	Jan 2018	30	64	4	68	68	0	68	6753.04	17	0	68
	Feb 2018	28	40	4	44	44	0	44	6753.04	17	0	44
	Mar 2018	42	43	6	49	49	0	49	6753.04	17	5	44
	Apr 2018	81	62	10	72	72	0	72	6753.04	17	30	42
	May 2018	186	110	21	131	131	0	131	6753.04	17	55	76
	Jun 2018	245	64	25	89	89	0	89	6753.04	17	60	29
	Jul 2018	88	86	9	95	95	0	95	6753.04	17	65	30
	Aug 2018	53	89	6	95	95	0	95	6753.04	17	65	30
	Sep 2018	41	79	5	84	84	0	84	6753.04	17	55	29
	WY 2018	**911**	**874**	**104**	**979**	**977**	**0**	**977**			**391**	**586**
	Oct 2018	43	55	5	60	60	0	60	6753.04	17	30	30
	Nov 2018	37	48	4	52	52	0	52	6753.04	17	0	52
	Dec 2018	32	78	5	82	82	0	82	6753.04	17	0	82
	Jan 2019	31	72	5	77	77	0	77	6753.04	17	0	77
	Feb 2019	29	32	4	36	36	0	36	6753.04	17	0	36
	Mar 2019	46	36	6	42	42	0	42	6753.04	17	5	37
	Apr 2019	101	53	12	65	65	0	65	6753.04	17	30	35
	May 2019	281	178	34	213	134	78	213	6753.04	17	55	158
	Jun 2019	315	101	34	134	130	5	134	6753.04	17	60	74
	Jul 2019	138	105	14	120	120	0	120	6753.04	17	65	55
	Aug 2019	75	112	8	120	120	0	120	6753.04	17	65	55
	Sep 2019	47	96	6	102	102	0	102	6753.04	17	55	47
	WY 2019	**1175**	**965**	**139**	**1104**	**1021**	**83**	**1104**			**365**	**739**
	Oct 2019	47	68	6	74	74	0	74	6753.04	17	30	44
	Nov 2019	38	37	5	42	42	0	42	6753.04	17	0	42

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Vallecito Reservoir

	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2016	6	2	7647.98	82
H	Jan 2017	7	5	7648.89	84
I	Feb 2017	7	15	7645.42	76
S	Mar 2017	24	24	7645.75	77
T	Apr 2017	45	35	7649.82	87
O	May 2017	67	44	7658.86	109
R	Jun 2017	72	57	7664.54	124
I	Jul 2017	30	39	7660.94	115
C	Aug 2017	19	33	7655.15	100
A	Sep 2017	9	34	7644.31	74
	WY 2017	**303**	**297**		
L	Oct 2017	9	22	7638.22	61
*	Nov 2017	5	2	7639.49	63
	Dec 2017	6	2	7641.14	67
	Jan 2018	5	2	7642.35	69
	Feb 2018	4	2	7643.35	72
	Mar 2018	6	2	7645.13	76
	Apr 2018	13	2	7649.80	86
	May 2018	43	31	7654.51	98
	Jun 2018	42	43	7654.01	97
	Jul 2018	17	42	7643.43	72
	Aug 2018	13	38	7631.01	47
	Sep 2018	12	30	7619.72	29
	WY 2018	**174**	**216**		
	Oct 2018	12	17	7615.80	24
	Nov 2018	8	2	7620.51	30
	Dec 2018	6	2	7623.64	34
	Jan 2019	5	2	7625.91	38
	Feb 2019	5	2	7627.72	41
	Mar 2019	9	2	7631.50	47
	Apr 2019	23	2	7642.06	69
	May 2019	71	32	7658.32	108
	Jun 2019	70	53	7664.66	125
	Jul 2019	29	42	7659.70	111
	Aug 2019	20	38	7652.41	93
	Sep 2019	17	30	7647.21	80
	WY 2019	**277**	**222**		
	Oct 2019	16	17	7646.45	79
	Nov 2019	9	2	7649.37	85

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

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Managing Water in the West

December 2017 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 2016	26	0	22	1	0	21	6055.92	1297	39
H	Jan 2017	34	0	32	1	0	22	6056.65	1306	37
I	Feb 2017	56	1	62	1	1	27	6059.31	1339	47
S	Mar 2017	176	17	159	2	6	30	6068.54	1460	98
T	Apr 2017	235	33	193	3	19	33	6078.18	1598	132
O	May 2017	261	45	195	4	25	228	6073.94	1536	310
R	Jun 2017	231	46	166	5	40	259	6063.90	1398	458
I	Jul 2017	49	11	48	4	43	38	6061.00	1361	95
C	Aug 2017	30	5	38	4	35	36	6058.07	1323	57
A	Sep 2017	9	2	33	3	23	42	6055.28	1289	46
	WY 2017	**1157**	**160**	**991**	**28**	**198**	**785**			**1409**
L	Oct 2017	38	2	49	2	8	32	6055.89	1296	52
*	Nov 2017	19	0	16	1	0	25	6055.04	1286	41
	Dec 2017	19	0	15	1	0	25	6054.23	1276	37
	Jan 2018	18	0	15	1	0	25	6053.40	1266	36
	Feb 2018	21	0	19	1	0	22	6053.04	1262	32
	Mar 2018	51	2	44	2	5	25	6054.11	1275	39
	Apr 2018	96	15	70	2	21	24	6055.98	1298	54
	May 2018	166	37	117	3	35	25	6060.25	1351	110
	Jun 2018	134	32	103	4	51	30	6061.62	1369	120
	Jul 2018	34	6	52	4	56	36	6058.19	1325	71
	Aug 2018	31	1	55	3	47	41	6055.18	1288	65
	Sep 2018	30	1	47	3	26	35	6053.83	1271	54
	WY 2018	**657**	**98**	**601**	**27**	**250**	**342**			**708**
	Oct 2018	37	2	40	2	10	27	6054.05	1274	47
	Nov 2018	30	1	23	1	0	24	6053.94	1273	39
	Dec 2018	25	0	20	1	0	25	6053.56	1268	40
	Jan 2019	22	0	18	1	0	25	6053.00	1261	38
	Feb 2019	30	0	27	1	0	22	6053.34	1265	35
	Mar 2019	92	2	83	2	5	25	6057.57	1317	47
	Apr 2019	170	14	134	3	21	27	6064.12	1401	80
	May 2019	277	37	201	4	36	174	6063.16	1389	321
	Jun 2019	224	32	174	4	52	238	6053.65	1269	389
	Jul 2019	66	6	72	4	57	28	6052.28	1253	95
	Aug 2019	45	1	62	3	48	34	6050.35	1230	72
	Sep 2019	43	1	55	3	26	27	6050.24	1228	60
	WY 2019	**1062**	**96**	**912**	**26**	**254**	**674**			**1262**
	Oct 2019	47	2	47	2	10	25	6051.17	1239	53
	Nov 2019	34	1	26	1	0	24	6051.27	1241	42

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Lake Powell

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
H	Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
I	Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
S	Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
T	Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
O	May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
R	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
C	Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	930
A	Sep 2017	196	410	57	663	0	663	3628.31	5227	14664	677
	WY 2017	**11905**	**11396**	**409**	**8874**	**126**	**9000**				**9158**
L	Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	644
*	Nov 2017	387	454	37	630	0	630	3625.29	5200	14332	629
	Dec 2017	360	540	29	740	0	740	3623.33	5183	14119	746
	Jan 2018	340	495	9	860	0	860	3620.09	5156	13773	866
	Feb 2018	360	472	10	730	0	730	3617.74	5136	13526	732
	Mar 2018	520	519	16	800	0	800	3615.10	5114	13251	805
	Apr 2018	710	656	25	705	0	705	3614.44	5108	13182	713
	May 2018	1300	1067	30	705	0	705	3617.40	5133	13490	711
	Jun 2018	1800	1416	48	760	0	760	3622.71	5178	14053	766
	Jul 2018	750	789	58	860	0	860	3621.59	5168	13933	875
	Aug 2018	360	462	57	900	0	900	3617.26	5132	13475	914
	Sep 2018	300	411	52	670	0	670	3614.48	5109	13187	678
	WY 2018	**7636**	**7815**	**411**	**9000**	**0**	**9000**				**9079**
	Oct 2018	422	477	35	640	0	640	3612.69	5094	13003	646
	Nov 2018	431	486	34	640	0	640	3610.98	5080	12829	644
	Dec 2018	363	479	27	720	0	720	3608.51	5060	12581	726
	Jan 2019	361	470	8	860	0	860	3604.79	5031	12213	866
	Feb 2019	393	440	9	750	0	750	3601.74	5007	11917	752
	Mar 2019	665	600	14	800	0	800	3599.67	4991	11718	805
	Apr 2019	1056	877	23	710	0	710	3601.07	5002	11852	718
	May 2019	2343	2100	28	710	0	710	3613.76	5103	13113	716
	Jun 2019	2666	2351	48	750	0	750	3627.28	5218	14551	756
	Jul 2019	1091	1037	61	850	0	850	3628.34	5227	14668	865
	Aug 2019	500	592	60	900	0	900	3625.24	5200	14327	914
	Sep 2019	408	514	55	670	0	670	3623.44	5184	14132	679
	WY 2019	**10698**	**10423**	**402**	**9000**	**0**	**9000**				**9086**
	Oct 2019	512	568	38	640	0	640	3622.50	5176	14030	646
	Nov 2019	473	515	36	640	0	640	3621.10	5164	13880	644

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RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead

	Date	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
H	Jan 2017	880	128	30	500	8.1	7	494	684	1086.08	10521
I	Feb 2017	711	150	28	488	8.8	7	487	704	1089.78	10838
S	Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
T	Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
O	May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
R	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
C	Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
A	Sep 2017	663	70	58	600	10.1	21	596	662	1082.05	10182
	WY 2017	**9000**	**994**	**541**	**8620**		**235**	**8596**			
L	Oct 2017	640	44	43	596	9.7	23	595	663	1082.30	10202
*	Nov 2017	630	40	42	731	12.3	16	730	656	1080.95	10090
	Dec 2017	740	51	37	580	9.4	14	580	666	1082.75	10240
	Jan 2018	860	64	30	485	7.9	12	485	690	1087.15	10612
	Feb 2018	730	72	28	657	11.8	14	657	696	1088.28	10709
	Mar 2018	800	46	31	1048	17.0	21	1048	681	1085.47	10469
	Apr 2018	705	39	39	1051	17.7	23	1051	658	1081.35	10123
	May 2018	705	26	44	962	15.6	27	962	640	1077.93	9840
	Jun 2018	760	10	52	872	14.7	33	872	628	1075.78	9664
	Jul 2018	860	77	65	833	13.6	36	833	628	1075.81	9666
	Aug 2018	900	127	70	742	12.1	34	742	639	1077.89	9837
	Sep 2018	670	110	57	741	12.4	27	741	637	1077.38	9795
	WY 2018	**9000**	**706**	**539**	**9297**		**282**	**9295**			
	Oct 2018	640	71	42	535	8.7	28	535	643	1078.59	9894
	Nov 2018	640	65	42	698	11.7	21	698	640	1077.95	9842
	Dec 2018	720	51	36	625	10.2	14	625	646	1079.04	9931
	Jan 2019	860	64	30	627	10.2	12	627	661	1081.91	10170
	Feb 2019	750	72	28	697	12.6	14	697	666	1082.84	10247
	Mar 2019	800	46	31	1058	17.2	21	1058	650	1079.86	9999
	Apr 2019	710	39	38	1060	17.8	23	1060	627	1075.60	9650
	May 2019	710	26	43	964	15.7	27	964	609	1072.15	9371
	Jun 2019	750	10	51	875	14.7	33	875	597	1069.80	9184
	Jul 2019	850	77	63	833	13.5	36	833	597	1069.74	9179
	Aug 2019	900	127	68	729	11.9	34	729	609	1072.05	9363
	Sep 2019	670	110	56	744	12.5	27	744	606	1071.51	9320
	WY 2019	**9000**	**757**	**527**	**9445**		**291**	**9445**			
	Oct 2019	640	71	41	506	8.2	28	506	614	1073.10	9448
	Nov 2019	640	65	41	671	11.3	21	671	612	1072.77	9421

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave

	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
H	Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
I	Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
S	Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
T	Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
O	May 2017	917	-13	22	846	0	846	13.8	643.74	1719
R	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
C	Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
A	Sep 2017	600	-11	18	656	0	656	11.0	639.47	1603
	WY 2017	**8620**	**-183**	**199**	**8261**	**0**	**8261**			
L	Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
*	Nov 2017	731	-18	11	595	0	595	10.0	640.07	1619
	Dec 2017	580	-10	9	549	0	549	8.9	640.50	1631
	Jan 2018	485	-19	10	429	0	429	7.0	641.50	1658
	Feb 2018	657	-16	10	623	0	623	11.2	641.80	1666
	Mar 2018	1048	-16	13	984	0	984	16.0	643.05	1700
	Apr 2018	1051	-20	17	1016	0	1016	17.1	643.00	1699
	May 2018	962	-13	22	927	0	927	15.1	643.00	1699
	Jun 2018	872	-18	25	856	0	856	14.4	642.00	1671
	Jul 2018	833	-16	25	806	0	806	13.1	641.50	1658
	Aug 2018	742	-12	23	707	0	707	11.5	641.50	1658
	Sep 2018	741	-11	18	751	0	751	12.6	640.01	1617
	WY 2018	**9297**	**-171**	**197**	**8913**	**0**	**8913**			
	Oct 2018	535	-4	15	700	0	700	11.4	633.00	1434
	Nov 2018	698	-11	10	625	0	625	10.5	635.00	1486
	Dec 2018	625	-10	9	509	0	509	8.3	638.71	1583
	Jan 2019	627	-19	10	516	0	516	8.4	641.80	1666
	Feb 2019	697	-16	10	613	58	671	12.1	641.80	1666
	Mar 2019	1058	-16	13	994	0	994	16.2	643.05	1700
	Apr 2019	1060	-20	17	1024	0	1024	17.2	643.00	1699
	May 2019	964	-13	22	929	0	929	15.1	643.00	1699
	Jun 2019	875	-18	25	860	0	860	14.4	642.00	1671
	Jul 2019	833	-16	25	805	0	805	13.1	641.50	1658
	Aug 2019	729	-12	23	694	0	694	11.3	641.50	1658
	Sep 2019	744	-11	18	755	0	755	12.7	640.01	1617
	WY 2019	**9445**	**-166**	**197**	**9023**	**58**	**9081**			
	Oct 2019	506	-4	15	670	0	670	10.9	633.00	1434
	Nov 2019	671	-11	10	598	0	598	10.1	635.00	1486

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

	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 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
H	Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
I	Feb 2017	486	14	8	393	7.1	13	62	448.30	586	160	2.9
S	Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
T	Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
O	May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
R	Jun 2017	853	0	15	689	11.6	58	79	448.41	588	126	2.1
I	Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
C	Aug 2017	707	11	17	570	9.3	58	70	448.28	585	102	1.7
A	Sep 2017	656	16	15	481	8.1	56	134	447.17	564	104	1.7
	WY 2017	**8261**	**219**	**140**	**6204**		**665**	**1406**			**1513**	
L	Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
*	Nov 2017	595	12	9	349	5.9	89	127	447.86	577	99	1.7
	Dec 2017	549	19	7	329	5.3	99	149	446.80	557	109	1.8
	Jan 2018	429	17	6	323	5.3	29	89	446.50	552	138	2.2
	Feb 2018	623	10	8	496	8.9	12	110	446.50	552	160	2.9
	Mar 2018	984	7	9	725	11.8	63	181	446.70	555	198	3.2
	Apr 2018	1016	19	11	720	12.1	83	174	448.70	593	175	2.9
	May 2018	927	15	13	645	10.5	85	186	448.70	593	104	1.7
	Jun 2018	856	15	16	687	11.5	83	73	448.70	593	105	1.8
	Jul 2018	806	26	17	656	10.7	85	74	448.00	580	111	1.8
	Aug 2018	707	25	17	595	9.7	85	33	447.50	571	100	1.6
	Sep 2018	751	20	15	524	8.8	64	159	447.50	570	89	1.5
	WY 2018	**8913**	**195**	**139**	**6527**		**847**	**1485**			**1454**	
	Oct 2018	700	28	12	481	7.8	58	170	447.50	571	74	1.2
	Nov 2018	625	19	9	407	6.8	57	164	447.50	571	116	1.9
	Dec 2018	509	19	7	317	5.2	58	161	446.50	552	131	2.1
	Jan 2019	516	17	6	324	5.3	76	122	446.50	552	138	2.2
	Feb 2019	671	10	8	496	8.9	50	122	446.50	552	160	2.9
	Mar 2019	994	7	9	722	11.7	67	190	446.70	555	198	3.2
	Apr 2019	1024	19	11	715	12.0	85	185	448.70	593	175	2.9
	May 2019	929	15	13	641	10.4	87	190	448.70	593	104	1.7
	Jun 2019	860	15	16	680	11.4	85	80	448.70	593	105	1.8
	Jul 2019	805	26	17	648	10.5	87	80	448.00	580	111	1.8
	Aug 2019	694	25	17	583	9.5	87	30	447.50	571	100	1.6
	Sep 2019	755	20	15	512	8.6	85	154	447.50	570	89	1.5
	WY 2019	**9081**	**220**	**139**	**6526**		**882**	**1648**			**1500**	
	Oct 2019	670	28	12	490	8.0	47	142	447.50	571	74	1.2
	Nov 2019	598	19	9	413	6.9	47	142	447.50	571	116	1.9

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
H	Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
I	Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
S	Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
T	Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
O	May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
R	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
C	Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
A	Sep 2017	600	10.1	1082.05	10182	51	440.10	976.1	230.7	66	384.8
	WY 2017	**8620**							**3347.1**		
L	Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
*	Nov 2017	731	12.3	1080.95	10090	-113	435.01	996.0	287.9	63	393.6
	Dec 2017	580	9.4	1082.75	10240	150	435.32	821.0	229.0	52	395.0
	Jan 2018	485	7.9	1087.15	10612	372	437.32	926.9	192.4	57	397.1
	Feb 2018	657	11.8	1088.28	10709	97	438.45	1109.9	261.6	68	398.4
	Mar 2018	1048	17.0	1085.47	10469	-239	436.41	1203.1	418.7	75	399.6
	Apr 2018	1051	17.7	1081.35	10123	-347	432.55	1188.0	418.4	75	398.0
	May 2018	962	15.6	1077.93	9840	-283	426.74	1477.0	372.8	95	387.6
	Jun 2018	872	14.7	1075.78	9664	-176	423.73	1549.0	332.2	100	381.0
	Jul 2018	833	13.6	1075.81	9666	2	423.17	1549.0	321.5	100	385.7
	Aug 2018	742	12.1	1077.89	9837	170	424.38	1562.0	283.4	100	382.1
	Sep 2018	741	12.4	1077.38	9795	-42	425.64	1559.0	284.8	100	384.5
	WY 2018	**9297**							**3631.7**		
	Oct 2018	535	8.7	1078.59	9894	99	430.85	1166.0	204.5	74	381.8
	Nov 2018	698	11.7	1077.95	9842	-52	432.73	1265.0	272.5	81	390.6
	Dec 2018	625	10.2	1079.04	9931	90	431.80	1168.0	243.9	74	390.1
	Jan 2019	627	10.2	1081.91	10170	238	433.42	903.0	248.2	57	395.6
	Feb 2019	697	12.6	1082.84	10247	78	434.84	826.0	281.7	52	404.1
	Mar 2019	1058	17.2	1079.86	9999	-248	432.79	908.0	429.5	57	406.0
	Apr 2019	1060	17.8	1075.60	9650	-349	427.00	1156.0	417.1	74	393.6
	May 2019	964	15.7	1072.15	9371	-279	421.03	1440.4	368.6	95	382.5
	Jun 2019	875	14.7	1069.80	9184	-187	417.91	1509.0	329.1	100	375.9
	Jul 2019	833	13.5	1069.74	9179	-5	417.20	1508.7	316.5	100	380.2
	Aug 2019	729	11.9	1072.05	9363	184	418.48	1521.7	274.2	100	376.2
	Sep 2019	744	12.5	1071.51	9320	-43	419.84	1518.7	282.3	100	379.6
	WY 2019	**9445**							**3668.1**		
	Oct 2019	506	8.2	1073.10	9448	128	425.21	1136.0	195.6	74	386.7
	Nov 2019	671	11.3	1072.77	9421	-27	427.44	1231.8	257.9	81	384.3

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
H	Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
I	Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
S	Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
T	Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
O	May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
R	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
C	Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
A	Sep 2017	656	11.0	639.47	1603	-86	138.07	253.3	83.2	99	126.8
	WY 2017	**8261**							**1061.4**		
L	Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
*	Nov 2017	595	10.0	640.07	1619	107	138.81	151.3	73.1	59	122.7
	Dec 2017	549	8.9	640.50	1631	12	137.11	131.6	68.6	52	124.9
	Jan 2018	429	7.0	641.50	1658	27	136.18	179.3	54.2	70	126.4
	Feb 2018	623	11.2	641.80	1666	8	139.27	111.1	78.0	44	125.3
	Mar 2018	984	16.0	643.05	1700	34	138.04	166.2	122.5	65	124.5
	Apr 2018	1016	17.1	643.00	1699	-1	137.36	207.4	126.6	81	124.7
	May 2018	927	15.1	643.00	1699	0	137.43	204.0	116.1	80	125.3
	Jun 2018	856	14.4	642.00	1671	-27	135.51	255.0	107.0	100	125.0
	Jul 2018	806	13.1	641.50	1658	-14	134.73	255.0	100.5	100	124.8
	Aug 2018	707	11.5	641.50	1658	0	134.46	255.0	88.4	100	125.1
	Sep 2018	751	12.6	640.01	1617	-40	133.68	255.0	93.2	100	124.0
	WY 2018	**8913**							**1109.5**		
	Oct 2018	700	11.4	633.00	1434	-183	130.74	202.3	84.4	79	120.6
	Nov 2018	625	10.5	635.00	1486	51	129.19	170.0	74.2	67	118.7
	Dec 2018	509	8.3	638.71	1583	97	132.25	167.8	62.2	66	122.1
	Jan 2019	516	8.4	641.80	1666	83	135.41	179.3	64.5	70	125.1
	Feb 2019	613	11.0	641.80	1666	0	139.11	111.1	77.0	44	125.5
	Mar 2019	994	16.2	643.05	1700	34	138.04	166.2	123.7	65	124.4
	Apr 2019	1024	17.2	643.00	1699	-1	137.36	207.4	127.6	81	124.6
	May 2019	929	15.1	643.00	1699	0	137.43	204.0	116.3	80	125.2
	Jun 2019	860	14.4	642.00	1671	-27	135.51	255.0	107.4	100	125.0
	Jul 2019	805	13.1	641.50	1658	-14	134.73	255.0	100.4	100	124.8
	Aug 2019	694	11.3	641.50	1658	0	134.46	255.0	86.8	100	125.2
	Sep 2019	755	12.7	640.01	1617	-40	133.68	255.0	93.6	100	124.0
	WY 2019	**9023**							**1118.2**		
	Oct 2019	670	10.9	633.00	1434	-183	130.74	202.3	81.0	79	120.8
	Nov 2019	598	10.1	635.00	1486	51	129.19	170.0	71.1	67	118.9

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
H	Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
I	Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
S	Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
T	Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
O	May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
R	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
C	Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
A	Sep 2017	481	8.1	447.17	564	-21	81.08	120.0	33.8	100	70.2
	WY 2017	**6204**							**434.1**		
L	Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
*	Nov 2017	349	5.9	447.86	577	30	81.65	90.0	24.1	75	69.2
	Dec 2017	329	5.3	446.80	557	-20	75.98	92.9	21.2	77	64.4
	Jan 2018	323	5.3	446.50	552	-6	74.18	117.1	20.4	98	63.0
	Feb 2018	496	8.9	446.50	552	0	75.21	92.1	32.5	77	65.6
	Mar 2018	725	11.8	446.70	555	4	74.69	104.5	47.6	87	65.6
	Apr 2018	720	12.1	448.70	593	38	75.08	120.0	47.4	100	65.8
	May 2018	645	10.5	448.70	593	0	76.05	120.0	42.8	100	66.3
	Jun 2018	687	11.5	448.70	593	0	76.05	120.0	45.7	100	66.5
	Jul 2018	656	10.7	448.00	580	-13	75.71	120.0	43.3	100	66.1
	Aug 2018	595	9.7	447.50	571	-9	75.13	120.0	38.9	100	65.4
	Sep 2018	524	8.8	447.50	570	0	74.89	120.0	34.1	100	65.0
	WY 2018	**6527**							**431.7**		
	Oct 2018	481	7.8	447.50	571	0	76.19	91.9	31.7	77	65.9
	Nov 2018	407	6.8	447.50	571	0	75.83	99.0	26.5	83	65.2
	Dec 2018	317	5.2	446.50	552	-19	74.40	120.0	20.0	100	63.0
	Jan 2019	324	5.3	446.50	552	0	75.02	95.8	20.6	80	63.7
	Feb 2019	496	8.9	446.50	552	0	75.21	92.1	32.5	77	65.6
	Mar 2019	722	11.7	446.70	555	4	74.34	112.3	47.1	94	65.3
	Apr 2019	715	12.0	448.70	593	38	75.08	120.0	47.1	100	65.8
	May 2019	641	10.4	448.70	593	0	76.05	120.0	42.5	100	66.3
	Jun 2019	680	11.4	448.70	593	0	76.05	120.0	45.2	100	66.5
	Jul 2019	648	10.5	448.00	580	-13	75.71	120.0	42.8	100	66.1
	Aug 2019	583	9.5	447.50	571	-9	75.13	120.0	38.1	100	65.4
	Sep 2019	512	8.6	447.50	570	0	74.89	120.0	33.3	100	65.0
	WY 2019	**6526**							**427.5**		
	Oct 2019	490	8.0	447.50	571	0	76.29	90.0	32.4	75	66.1
	Nov 2019	413	6.9	447.50	571	0	76.14	93.0	27.1	78	65.5

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Upper Basin Power

	Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
*	Dec 2016	395	41	10	11	6	0
H	Jan 2017	385	43	10	11	5	0
I	Feb 2017	307	43	13	19	10	0
S	Mar 2017	312	97	19	22	0	0
	Winter 2017	**1945**	**289**	**87**	**107**	**46**	**0**
T	Apr 2017	270	102	15	22	6	0
O	May 2017	291	105	43	72	17	4
R	Jun 2017	346	102	40	66	8	6
I	Jul 2017	399	71	35	13	18	8
C	Aug 2017	421	56	34	0	22	9
A	Sep 2017	306	56	35	33	22	6
	Summer 2017	**2033**	**492**	**202**	**207**	**93**	**33**
L	Oct 2017	294	42	30	37	21	7
*	Nov 2017	288	55	12	14	8	7
	Dec 2017	308	63	27	32	16	7
	Jan 2018	356	63	19	23	12	6
	Feb 2018	300	57	11	14	8	5
	Mar 2018	328	48	12	15	8	6
	Winter 2018	**1874**	**328**	**111**	**136**	**73**	**38**
	Apr 2018	288	46	15	22	12	6
	May 2018	288	48	28	40	23	7
	Jun 2018	313	71	15	23	15	8
	Jul 2018	356	80	25	31	16	10
	Aug 2018	370	37	27	32	16	10
	Sep 2018	274	36	24	28	15	6
	Summer 2018	**1889**	**318**	**134**	**177**	**98**	**46**
	Oct 2018	260	37	16	20	10	6
	Nov 2018	260	36	14	17	9	6
	Dec 2018	290	37	22	28	14	6
	Jan 2019	345	37	20	26	13	5
	Feb 2019	299	33	9	12	6	4
	Mar 2019	317	37	9	13	7	5
	Winter 2019	**1771**	**217**	**91**	**115**	**60**	**32**
	Apr 2019	281	36	12	19	11	5
	May 2019	285	37	45	64	23	7
	Jun 2019	309	58	25	36	22	8
	Jul 2019	356	55	31	38	21	10
	Aug 2019	376	36	34	40	21	10
	Sep 2019	278	35	29	34	18	7
	Summer 2019	**1607**	**222**	**147**	**198**	**98**	**39**
	Oct 2019	265	36	20	24	13	7
	Nov 2019	264	36	11	13	7	6

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

December 2017 24-Month Study

Most Probable Inflow*

Flood Control Criteria

Beginning of Month Conditions

Date	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF
	****PREDICTED SPACE****							****CREDITABLE SPACE****										
Dec 2017	425	171	410	9990	10996	17287	28283	425	171	410	1006	9990	17287	28283	4580	580	0	32.2
Jan 2018	541	230	420	10203	11393	17137	28530	541	230	420	1191	10203	17137	28530	5350	485	0	32.1
								****EFFECTIVE SPACE****										
Jan 2018	541	230	420	10203	11393	17137	28530	140	151	235	526	10203	17137	27865	5350	485	0	32.1
Feb 2018	650	268	430	10549	11897	16765	28661	250	189	244	684	10549	16765	27997	1500	657	0	31.8
Mar 2018	746	281	434	10796	12258	16668	28926	346	205	247	798	10796	16668	28263	1500	1048	0	31.3
Apr 2018	761	287	421	11071	12541	16908	29448	357	212	228	796	11071	16908	28775	1500	1051	0	31.0
May 2018	758	278	398	11140	12574	17254	29828	348	203	182	733	11140	17254	29127	1500	962	0	31.2
Jun 2018	660	233	345	10832	12070	17537	29607	239	148	90	477	10832	17537	28847	1500	872	0	31.9
Jul 2018	467	94	327	10269	11158	17713	28871	32	-7	17	41	10269	17713	28024	1500	833	0	31.8
								****CREDITABLE SPACE****										
Aug 2018	450	96	371	10389	11306	17711	29017	450	96	371	917	10389	17711	29017	1500	742	0	31.4
Sep 2018	468	129	408	10847	11853	17540	29393	468	129	408	1005	10847	17540	29393	2270	741	0	30.9
Oct 2018	516	164	425	11135	12240	17582	29822	516	164	425	1104	11135	17582	29822	3040	535	0	30.6
Nov 2018	560	182	422	11319	12483	17483	29966	560	182	422	1164	11319	17483	29966	3810	698	0	30.3
Dec 2018	608	196	423	11493	12721	17535	30256	608	196	423	1228	11493	17535	30256	4580	625	0	30.1
Jan 2019	676	245	428	11741	13090	17446	30536	676	245	428	1349	11741	17446	30536	5350	627	0	30.0
								****EFFECTIVE SPACE****										
Jan 2019	676	245	428	11741	13090	17446	30536	365	245	172	783	11741	17446	29969	5350	627	0	30.0
Feb 2019	738	289	435	12109	13572	17207	30779	426	289	178	894	12109	17207	30211	1500	697	0	29.7
Mar 2019	788	295	431	12405	13918	17130	31047	473	295	173	942	12405	17130	30476	1500	1058	0	29.3
Apr 2019	791	289	379	12604	14062	17378	31440	473	289	115	876	12604	17378	30858	1500	1060	0	29.3
May 2019	762	257	295	12470	13784	17727	31511	437	257	7	702	12470	17727	30899	1500	964	0	30.5
Jun 2019	631	198	307	11209	12346	18006	30352	294	198	-19	472	11209	18006	29687	1500	875	0	32.0
Jul 2019	415	39	427	9771	10652	18193	28845	61	18	44	123	9771	18193	28088	1500	833	0	32.1
								****CREDITABLE SPACE****										
Aug 2019	370	21	443	9654	10488	18198	28686	370	21	443	834	9654	18198	28686	1500	729	0	31.8
Sep 2019	395	57	466	9995	10914	18014	28928	395	57	466	918	9995	18014	28928	2270	744	0	31.4
Oct 2019	447	105	468	10190	11210	18057	29267	447	105	468	1019	10190	18057	29267	3040	506	0	31.2
Nov 2019	494	131	457	10292	11374	17929	29303	494	131	457	1082	10292	17929	29303	3810	671	0	31.0

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