

November 24-Month Study
Date: November 14, 2017

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

Current Reservoir Status

Reservoir	October Inflow (unregulated) (acre-feet)	Percent of Average (%)	November 13, Midnight Elevation (feet)	November 13, Midnight Reservoir Storage (acre-feet)
Fontenelle	73,000	150	6,492.85	247,000
Flaming Gorge	88,000	149	6,033.03	3,467,000
Blue Mesa	37,000	96	7,500.29	664,000
Navajo	38,000	82	6,055.50	1,292,000
Powell	449,000	88	3,626.27	14,439,000

Expected Operations

The operation of Lake Powell and Lake Mead in this November 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 November 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 6493.5 feet above sea level (feet), which amounts to 73 percent of live storage capacity. Inflows for the month of October totaled 73,000 acre-feet (af), or 150 percent of average. Above average inflows are forecasted over the next few months and releases have been adjusted 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. November, December, and January forecasted inflow volumes amount to 60,000 af (143 percent of average), 46,000 af (144 percent of average), and 45,000 af (148 percent of average), respectively.

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

Flaming Gorge Reservoir – Releases have been steady 1,500 cfs with one generating unit available, and are increasing to steady 2,800 cfs with two generating units available.

Unregulated inflow into Flaming Gorge Reservoir during the month of October was 88,000 af, or 149 percent of average. The reservoir elevation is 6,033.17 feet (93 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 November final forecast for inflows for the next three months projects above average conditions: November, December and January forecasted inflow volumes at 77,000 af (151 percent of average), 52,000 af (149 percent of average), and 60,000 af (149 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 750 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 7500.29 feet which corresponds to a storage content 663,700 acre-feet (80 percent of full capacity). Releases from Crystal will remain at the current level to the end of November. In December, releases will be increased to approximately 1,700 cfs for power production during the winter high power demand period.

The October unregulated inflow to Blue Mesa Reservoir was 33,773 af (97 percent of average). The April through July unregulated inflow for 2017 was 919,000 af (135 percent of average). Unregulated Inflows to Blue Mesa for the next three months (November, December and January) are projected to be: 35,000 af (113 percent of average), 30,000 af (115 percent of average) and 26,000 af (108 percent of average), respectively. For water year 2018, the unregulated inflow volume is forecasted to be 836,000 af (88 percent of average) with 570,000 af (84 percent of average) forecasted unregulated inflow during the April through July period. The November 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 18th, 2018 at 1:00 p.m. at the Holiday Inn Express located in Montrose, Colorado.

Navajo Reservoir – As of November 1st, the daily average release at Navajo is 500 cfs, and the observed inflow is 309 cfs. The reservoir elevation is 6055.85 feet (1,295,913 af), and is 76 percent full (61 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 246 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 was 38,403 af, which was 82 percent of average for the month. Navajo reservoir elevation at the end of the water year (September 30th) was 6055.3 feet.

The most probable modified-unregulated inflow forecast for November at Navajo is 28,000 af (84 percent of average), for December is 24,000 af (96 percent of average), and for January is 21,000 af (96 percent of average). Releases for the remainder of the year 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 23rd, 2018, at 1p.m. at the Farmington Civic Center, Farmington, NM.

Glen Canyon Dam / Lake Powell

Current Status

High-Flow Experiments (HFE) below Glen Canyon Dam are driven by weather, sediment inputs, and other resource conditions, in accordance with the Glen Canyon Dam Long-Term Experimental and Management Plan Record of Decision (LTEMP). Grand Canyon Monitoring and Research Center (GCMRC) scientists and Reclamation modelers considered cumulative sediment inputs from July 1st through midnight October 9th. Based on these data it has been determined that there is not sufficient sediment to support implementing a high flow experiment (HFE) at Glen Canyon Dam during the fall 2017 planning window; therefore an HFE will not be tested this fall.

The unregulated inflow to Lake Powell in October was 449 thousand acre-feet (kaf) (88 percent of average). The release volume from Glen Canyon Dam in October was 640 kaf. The end of October elevation and storage of Lake Powell were 3,627.09 feet (73 feet below full pool) and 14.53 maf (60 percent of full capacity), respectively. The reservoir elevation is now in its seasonal decline through the fall and winter months until spring runoff starts.

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 November 2018, the release volume will be approximately 630 kaf, with fluctuations anticipated between about 7,000 cfs in the nighttime to about 12,600 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 December is 740 kaf with daily fluctuations between approximately 7,300 cfs and 14,000 cfs. The expected release for January is 860 kaf with daily fluctuations between approximately 9,100 cfs and 16,850 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 November

1, 2017, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume next year will be 8.90 maf (82 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 November 24-Month Study projects Lake Powell elevation will end water year 2018 near 3,624 feet with approximately 14.2 maf in storage (58 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 8.90 maf (82 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 2.2 maf over the total storage at the beginning of water year 2016 when total system storage was 30.7 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 31.42 maf (53 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

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		oct	Forecast			
:		jul	aug	sep	oct	%Avg	nov	dec	jan
GLDA3: Lake Powell		1073	446	196	449	88%:	430/	360/	360/
GBRW4: Fontenelle		332	102	66	73	150%:	60/	46/	45/
GRNU1: Flaming Gorge		387	120	87	88	149%:	77/	52/	60/
BMDC2: Blue Mesa		135	84	35	37	97%:	35/	30/	26/
MPSC2: Morrow Point		139	86	35	38	93%:	35/	30/	26/
CLSC2: Crystal		148	89	39	43	92%:	38/	33/	29/
TPIC2: Taylor Park		24	12.1	7.7	8.4	126%:	6.5/	5.5/	5/
VCRC2: Vallecito		30	18.8	8.6	8.6	55%:	7/	6/	5/
NVRN5: Navajo		49	29	8.9	38	81%:	28/	24/	21/
LEMC2: Lemon		7.0	4.1	1.73	1.31	41%:	1/	1/	0.6/
MPHC2: McPhee		25	15.3	10.0	2.9	33%:	4/	3.5/	4/
RBSC2: Ridgway		26	11.7	5.3	6.3	82%:	5/	4/	3.5/

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	62	1	0	59	59	6490.44	230
H	Dec 2016	37	1	0	63	63	6486.33	203
I	Jan 2017	45	1	0	63	63	6483.20	184
S	Feb 2017	51	1	0	57	57	6482.06	178
T	Mar 2017	180	1	0	150	150	6486.90	207
O	Apr 2017	225	1	0	304	304	6472.17	128
R	May 2017	430	1	54	373	427	6472.55	129
I	Jun 2017	732	2	74	469	543	6502.49	317
C	Jul 2017	332	3	88	230	319	6503.83	328
A	Aug 2017	102	2	95	61	156	6496.34	271
L	Sep 2017	66	2	69	4	72	6495.21	263
	WY 2017	2319	15	379	1890	2270		
*	Oct 2017	73	1	80	0	80	6494.03	255
	Nov 2017	60	1	78	0	78	6491.35	237
	Dec 2017	46	1	80	0	80	6485.96	202
	Jan 2018	45	1	80	0	80	6479.85	166
	Feb 2018	40	0	73	0	73	6473.11	133
	Mar 2018	60	0	80	0	80	6468.27	112
	Apr 2018	90	1	78	0	78	6471.02	124
	May 2018	175	1	99	15	115	6482.78	183
	Jun 2018	315	2	104	49	153	6505.60	342
	Jul 2018	195	3	99	113	212	6503.10	323
	Aug 2018	80	2	73	0	73	6503.76	328
	Sep 2018	49	2	70	0	70	6500.78	305
	WY 2018	1228	15	995	177	1172		
	Oct 2018	51	1	73	0	73	6497.71	282
	Nov 2018	43	1	70	0	70	6493.81	254
	Dec 2018	32	1	73	0	73	6487.64	213
	Jan 2019	30	1	73	0	73	6480.55	170
	Feb 2019	28	1	66	0	66	6472.84	132
	Mar 2019	53	0	73	0	73	6468.08	111
	Apr 2019	85	1	71	0	71	6471.27	125
	May 2019	164	1	98	31	129	6478.41	158
	Jun 2019	299	2	102	58	160	6499.55	295
	Jul 2019	178	3	101	24	125	6505.95	345
	Aug 2019	77	2	97	0	97	6503.05	322
	Sep 2019	46	2	71	0	71	6499.47	295
	WY 2019	1085	15	967	113	1080		
	Oct 2019	49	1	70	0	70	6496.37	272

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	73	70	4	77	0	77	128	6025.41	3175	112
H	Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
I	Jan 2017	49	67	2	110	0	110	124	6023.01	3087	149
S	Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
T	Mar 2017	400	370	3	256	26	282	128	6025.25	3169	408
O	Apr 2017	350	428	5	268	244	511	124	6022.93	3084	745
R	May 2017	582	580	8	278	171	449	129	6026.15	3203	857
I	Jun 2017	895	705	11	263	223	486	137	6031.41	3404	859
C	Jul 2017	387	374	14	180	48	228	142	6034.61	3531	314
A	Aug 2017	120	174	13	143	0	143	143	6035.05	3548	172
L	Sep 2017	87	93	11	141	0	141	140	6033.63	3491	160
	WY 2017	3153	3104	81	2016	712	2728				4222
*	Oct 2017	88	95	8	107	0	107	140	6033.17	3473	157
	Nov 2017	77	95	4	129	0	129	138	6032.26	3437	158
	Dec 2017	52	86	2	172	0	172	135	6030.11	3353	197
	Jan 2018	60	95	2	172	0	172	132	6028.14	3278	194
	Feb 2018	60	93	2	156	0	156	129	6026.48	3215	178
	Mar 2018	120	140	3	124	0	124	130	6026.83	3229	185
	Apr 2018	135	123	5	119	0	119	130	6026.81	3228	289
	May 2018	240	180	8	193	0	193	129	6026.27	3208	663
	Jun 2018	385	223	10	215	0	215	129	6026.22	3206	615
	Jul 2018	240	257	13	101	0	101	134	6029.82	3342	176
	Aug 2018	90	83	13	101	0	101	133	6029.03	3312	122
	Sep 2018	61	82	11	98	0	98	132	6028.35	3286	113
	WY 2018	1608	1552	80	1686	0	1686				3046
	Oct 2018	63	85	7	101	0	101	131	6027.74	3263	129
	Nov 2018	53	80	3	98	0	98	130	6027.20	3242	128
	Dec 2018	35	75	2	101	0	101	129	6026.48	3215	127
	Jan 2019	40	83	2	101	0	101	129	6025.95	3196	127
	Feb 2019	45	82	2	92	0	92	128	6025.66	3185	120
	Mar 2019	102	122	3	101	0	101	129	6026.12	3202	178
	Apr 2019	134	119	5	98	0	98	129	6026.55	3218	313
	May 2019	245	210	8	161	0	161	131	6027.61	3258	693
	Jun 2019	390	251	10	146	0	146	135	6029.99	3349	566
	Jul 2019	210	158	14	98	0	98	136	6031.12	3392	198
	Aug 2019	89	109	13	98	0	98	136	6031.07	3390	124
	Sep 2019	55	81	11	95	0	95	135	6030.42	3365	114
	WY 2019	1461	1456	80	1292	0	1292				2816
	Oct 2019	59	81	7	98	0	98	134	6029.80	3341	131

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
* Nov 2016	4	5	9309.76	70
H Dec 2016	5	5	9309.56	69
I Jan 2017	6	5	9309.76	70
S Feb 2017	4	5	9309.43	69
T Mar 2017	6	6	9309.23	69
O Apr 2017	13	9	9312.04	73
R May 2017	30	19	9318.55	84
I Jun 2017	62	45	9327.76	102
C Jul 2017	24	26	9326.95	100
A Aug 2017	12	25	9320.31	88
L Sep 2017	8	18	9314.58	77
WY 2017	179	173		
* Oct 2017	8	8	9314.93	78
Nov 2017	7	6	9315.22	79
Dec 2017	6	6	9314.93	78
Jan 2018	5	6	9314.34	77
Feb 2018	4	6	9313.15	75
Mar 2018	5	6	9312.24	74
Apr 2018	7	8	9311.63	73
May 2018	26	17	9316.96	82
Jun 2018	38	22	9325.62	98
Jul 2018	15	22	9321.94	91
Aug 2018	8	20	9315.22	79
Sep 2018	7	16	9309.76	70
WY 2018	135	143		
Oct 2018	6	8	9308.77	68
Nov 2018	5	6	9308.14	67
Dec 2018	5	6	9307.28	66
Jan 2019	4	6	9306.19	64
Feb 2019	4	6	9304.70	62
Mar 2019	4	6	9303.63	60
Apr 2019	9	6	9305.52	63
May 2019	28	20	9310.87	71
Jun 2019	42	22	9322.20	91
Jul 2019	20	22	9321.20	89
Aug 2019	10	20	9315.76	79
Sep 2019	7	16	9310.57	71
WY 2019	145	144		
Oct 2019	7	8	9309.73	69

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 2017 24-Month Study

Most Probable Inflow* Blue Mesa Reservoir



	Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Nov 2016	26	27	0	33	0	33	7492.53	601
H	Dec 2016	26	26	0	35	0	35	7491.43	593
I	Jan 2017	29	28	0	34	0	34	7490.68	587
S	Feb 2017	28	29	0	44	1	44	7488.71	571
T	Mar 2017	70	70	0	69	0	70	7488.71	571
O	Apr 2017	145	140	1	53	0	53	7499.55	658
R	May 2017	244	233	1	151	65	293	7491.98	597
I	Jun 2017	392	373	1	139	35	175	7515.35	793
C	Jul 2017	135	137	2	113	0	110	7518.20	819
A	Aug 2017	84	96	1	111	0	111	7516.38	802
L	Sep 2017	35	45	1	115	0	114	7508.43	732
	WY 2017	1245	1238	9	987	101	1163		
*	Oct 2017	37	37	1	102	0	102	7500.64	667
	Nov 2017	35	35	0	42	0	42	7499.74	659
	Dec 2017	30	31	0	100	0	100	7491.05	590
	Jan 2018	26	27	0	76	0	76	7484.69	541
	Feb 2018	23	25	0	41	0	41	7482.57	525
	Mar 2018	34	36	0	38	0	38	7482.20	522
	Apr 2018	70	71	1	51	0	51	7484.74	541
	May 2018	190	181	1	151	0	151	7488.60	570
	Jun 2018	225	209	1	52	0	52	7507.72	726
	Jul 2018	85	92	2	81	0	81	7508.78	735
	Aug 2018	47	59	1	86	0	86	7505.45	707
	Sep 2018	35	44	1	76	0	76	7501.53	674
	WY 2018	837	845	9	895	0	895		
	Oct 2018	36	38	1	52	0	52	7499.73	659
	Nov 2018	30	31	0	49	0	49	7497.48	641
	Dec 2018	26	27	0	88	0	88	7489.78	580
	Jan 2019	24	26	0	82	0	82	7482.34	523
	Feb 2019	22	25	0	27	0	27	7481.92	520
	Mar 2019	36	38	0	28	0	28	7483.10	529
	Apr 2019	77	74	1	39	0	39	7487.69	564
	May 2019	221	213	1	152	0	152	7495.36	624
	Jun 2019	261	241	1	77	0	77	7514.68	787
	Jul 2019	117	119	2	93	0	93	7517.37	811
	Aug 2019	63	73	1	102	0	102	7514.00	781
	Sep 2019	38	47	1	93	0	93	7508.59	734
	WY 2019	952	951	9	883	0	883		
	Oct 2019	38	40	1	65	0	65	7505.50	707

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	28	33	2	36	32	0	35	7147.39	107
H	Dec 2016	27	35	1	36	34	0	34	7150.44	109
I	Jan 2017	30	34	2	36	33	0	33	7153.75	112
S	Feb 2017	29	44	1	45	55	0	55	7140.48	102
T	Mar 2017	74	70	5	74	64	0	68	7148.96	108
O	Apr 2017	157	53	12	66	65	0	65	7149.64	109
R	May 2017	263	293	19	312	203	0	312	7149.70	109
I	Jun 2017	411	175	19	195	184	0	193	7151.34	110
C	Jul 2017	139	110	4	114	37	0	111	7155.13	113
A	Aug 2017	86	111	2	113	0	0	115	7152.68	111
L	Sep 2017	35	114	0	115	92	0	112	7155.62	114
	WY 2017	1314	1163	69	1232	893	0	1226		
*	Oct 2017	38	102	1	103	105	0	105	7153.13	112
	Nov 2017	35	42	0	42	41	0	41	7153.73	112
	Dec 2017	30	100	0	100	100	0	100	7153.73	112
	Jan 2018	26	76	0	76	76	0	76	7153.73	112
	Feb 2018	23	41	0	41	41	0	41	7153.73	112
	Mar 2018	39	38	5	43	43	0	43	7153.73	112
	Apr 2018	80	51	10	61	61	0	61	7153.73	112
	May 2018	210	151	20	171	171	0	171	7153.73	112
	Jun 2018	240	52	15	67	67	0	67	7153.73	112
	Jul 2018	90	81	5	86	86	0	86	7153.73	112
	Aug 2018	50	86	3	89	89	0	89	7153.73	112
	Sep 2018	37	76	2	78	78	0	78	7153.73	112
	WY 2018	898	895	61	956	957	0	957		
	Oct 2018	38	52	2	54	54	0	54	7153.73	112
	Nov 2018	32	49	2	51	51	0	51	7153.73	112
	Dec 2018	28	88	2	90	90	0	90	7153.73	112
	Jan 2019	27	82	2	84	84	0	84	7153.73	112
	Feb 2019	25	27	3	30	30	0	30	7153.73	112
	Mar 2019	40	28	4	32	32	0	32	7153.73	112
	Apr 2019	88	39	11	50	50	0	50	7153.73	112
	May 2019	247	152	26	178	178	0	178	7153.73	112
	Jun 2019	281	77	20	97	97	0	97	7153.73	112
	Jul 2019	123	93	6	99	99	0	99	7153.73	112
	Aug 2019	67	102	3	106	106	0	106	7153.73	112
	Sep 2019	41	93	3	96	96	0	96	7153.73	112
	WY 2019	1037	883	84	967	967	0	967		
	Oct 2019	41	65	3	68	68	0	68	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 2017 24-Month Study

Most Probable Inflow*
Crystal Reservoir



		Unreg Inflow	Morrow Release	Side Inflow	Total Inflow	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage	Tunnel Flow	Below Tunnel Flow
	Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
*	Nov 2016	31	35	3	38	37	0	37	6750.47	16	1	36
H	Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
I	Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
S	Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
T	Mar 2017	81	68	6	74	0	73	73	6752.06	17	8	67
O	Apr 2017	167	65	10	75	31	44	75	6751.65	17	39	38
R	May 2017	285	312	22	334	86	73	331	6759.83	19	62	270
I	Jun 2017	446	193	36	229	44	127	231	6751.78	17	61	172
C	Jul 2017	148	111	8	119	96	25	121	6746.24	15	63	60
A	Aug 2017	89	115	3	119	119	0	119	6744.79	15	62	58
L	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
*	Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
	Nov 2017	38	41	3	44	44	0	44	6753.04	17	0	44
	Dec 2017	33	100	3	103	103	0	103	6753.04	17	0	103
	Jan 2018	29	76	3	79	79	0	79	6753.04	17	0	79
	Feb 2018	26	41	3	44	44	0	44	6753.04	17	0	44
	Mar 2018	45	43	6	49	49	0	49	6753.04	17	5	44
	Apr 2018	91	61	11	72	72	0	72	6753.04	17	30	42
	May 2018	240	171	30	201	134	66	201	6753.04	17	55	146
	Jun 2018	270	67	30	97	97	0	97	6753.04	17	60	37
	Jul 2018	99	86	9	95	95	0	95	6753.04	17	65	30
	Aug 2018	56	89	6	95	95	0	95	6753.04	17	65	30
	Sep 2018	43	78	6	84	84	0	84	6753.04	17	55	29
	WY 2018	1013	957	115	1072	1004	67	1071			390	680
	Oct 2018	44	54	6	60	60	0	60	6753.04	17	30	30
	Nov 2018	37	51	5	56	56	0	56	6753.04	17	0	56
	Dec 2018	32	90	5	95	95	0	95	6753.04	17	0	95
	Jan 2019	31	84	5	89	89	0	89	6753.04	17	0	89
	Feb 2019	29	30	4	34	34	0	34	6753.04	17	0	34
	Mar 2019	46	32	6	39	39	0	39	6753.04	17	5	34
	Apr 2019	101	50	12	62	62	0	62	6753.04	17	30	32
	May 2019	281	178	34	212	134	78	212	6753.04	17	55	157
	Jun 2019	315	97	34	130	130	0	130	6753.04	17	60	70
	Jul 2019	138	99	14	114	114	0	114	6753.04	17	65	49
	Aug 2019	75	106	8	114	114	0	114	6753.04	17	65	49
	Sep 2019	47	96	6	102	102	0	102	6753.04	17	55	47
	WY 2019	1176	967	140	1107	1029	78	1107			365	742
	Oct 2019	47	68	6	74	74	0	74	6753.04	17	30	44

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	6	2	7646.51	79
H	Dec 2016	6	2	7647.98	82
I	Jan 2017	7	5	7648.89	84
S	Feb 2017	7	15	7645.42	76
T	Mar 2017	24	24	7645.75	77
O	Apr 2017	45	35	7649.82	87
R	May 2017	67	44	7658.86	109
I	Jun 2017	72	57	7664.54	124
C	Jul 2017	30	39	7660.94	115
A	Aug 2017	19	33	7655.15	100
L	Sep 2017	9	34	7644.31	74
WY 2017		303	297		
*	Oct 2017	9	22	7638.22	61
	Nov 2017	7	2	7640.64	66
	Dec 2017	6	2	7642.54	70
	Jan 2018	5	2	7643.95	73
	Feb 2018	4	2	7644.93	75
	Mar 2018	6	2	7646.67	79
	Apr 2018	16	2	7652.49	93
	May 2018	55	31	7661.69	117
	Jun 2018	60	52	7664.42	124
	Jul 2018	23	42	7657.17	105
	Aug 2018	15	38	7647.70	82
	Sep 2018	13	30	7640.14	65
WY 2018		219	224		
	Oct 2018	13	17	7638.03	60
	Nov 2018	8	2	7640.94	66
	Dec 2018	6	2	7642.99	71
	Jan 2019	5	2	7644.56	74
	Feb 2019	5	2	7645.85	77
	Mar 2019	9	2	7648.68	84
	Apr 2019	23	2	7657.27	105
	May 2019	71	51	7664.80	125
	Jun 2019	70	70	7664.67	125
	Jul 2019	29	42	7659.71	111
	Aug 2019	20	38	7652.43	93
	Sep 2019	17	30	7647.22	80
WY 2019		277	258		
	Oct 2019	16	17	7646.46	79

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	24	0	19	1	0	22	6055.87	1296	43
H	Dec 2016	26	0	22	1	0	21	6055.92	1297	39
I	Jan 2017	34	0	32	1	0	22	6056.65	1306	37
S	Feb 2017	56	1	62	1	1	27	6059.31	1339	47
T	Mar 2017	176	17	159	2	6	30	6068.54	1460	98
O	Apr 2017	235	33	193	3	19	33	6078.18	1598	132
R	May 2017	261	45	195	4	25	228	6073.94	1536	310
I	Jun 2017	231	46	166	5	40	259	6063.90	1398	458
C	Jul 2017	49	11	48	4	43	38	6061.00	1361	95
A	Aug 2017	30	5	38	4	35	36	6058.07	1323	57
L	Sep 2017	9	2	33	3	23	42	6055.28	1289	46
	WY 2017	1157	160	991	28	198	785			1409
*	Oct 2017	38	2	50	2	8	32	6055.89	1296	53
	Nov 2017	28	1	22	1	0	24	6055.66	1294	37
	Dec 2017	24	0	20	1	0	25	6055.21	1288	37
	Jan 2018	21	0	18	1	0	25	6054.61	1281	36
	Feb 2018	25	0	23	1	0	22	6054.58	1280	33
	Mar 2018	63	2	56	2	5	25	6056.61	1305	41
	Apr 2018	120	15	91	2	21	24	6060.11	1349	64
	May 2018	225	37	164	4	35	29	6067.40	1445	144
	Jun 2018	170	32	130	5	51	30	6070.64	1489	155
	Jul 2018	40	6	52	5	56	32	6067.72	1449	82
	Aug 2018	33	1	55	4	47	39	6065.09	1414	69
	Sep 2018	36	1	52	3	26	52	6062.90	1385	74
	WY 2018	823	99	731	28	250	357			822
	Oct 2018	42	2	44	2	10	31	6063.05	1387	53
	Nov 2018	32	1	25	1	0	30	6062.59	1381	46
	Dec 2018	25	0	20	1	0	31	6061.74	1370	46
	Jan 2019	22	0	18	1	0	31	6060.73	1357	44
	Feb 2019	30	0	27	1	0	28	6060.62	1356	40
	Mar 2019	92	2	83	2	5	31	6064.14	1401	53
	Apr 2019	170	14	134	3	21	30	6070.15	1483	82
	May 2019	277	37	220	4	36	219	6067.36	1444	365
	Jun 2019	224	32	191	4	52	277	6056.44	1303	428
	Jul 2019	66	6	72	4	57	48	6053.43	1266	116
	Aug 2019	45	1	62	3	48	34	6051.49	1243	73
	Sep 2019	43	1	55	3	26	27	6051.37	1242	60
	WY 2019	1068	96	953	27	254	815			1406
	Oct 2019	47	2	47	2	10	26	6052.20	1252	54

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	383	389	33	624	126	750	3605.81	5039	12313	754
H	Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
I	Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
S	Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
T	Mar 2017	1112	895	14	722	0	722	3595.91	4963	11364	730
O	Apr 2017	1608	1494	23	623	0	623	3604.14	5026	12149	629
R	May 2017	2377	2321	29	652	0	652	3619.09	5147	13667	658
I	Jun 2017	3115	2680	51	749	0	749	3634.89	5286	15408	763
C	Jul 2017	1073	889	64	850	0	850	3634.69	5284	15385	875
A	Aug 2017	446	495	63	900	0	900	3630.88	5250	14952	930
L	Sep 2017	196	410	57	663	0	663	3628.31	5227	14664	677
	WY 2017	11905	11396	409	8874	126	9000				9158
*	Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	644
	Nov 2017	430	484	37	630	0	630	3625.54	5202	14360	634
	Dec 2017	360	551	29	740	0	740	3623.68	5186	14157	746
	Jan 2018	360	525	9	860	0	860	3620.71	5161	13839	866
	Feb 2018	390	500	10	750	0	750	3618.44	5142	13599	752
	Mar 2018	560	537	16	800	0	800	3615.96	5121	13340	805
	Apr 2018	820	725	26	690	0	690	3616.05	5122	13349	698
	May 2018	1700	1490	31	700	0	700	3622.70	5178	14051	706
	Jun 2018	2300	1900	51	760	0	760	3631.84	5258	15060	766
	Jul 2018	780	692	62	860	0	860	3629.94	5241	14846	875
	Aug 2018	400	505	61	900	0	900	3626.14	5208	14425	914
	Sep 2018	350	471	55	670	0	670	3623.98	5189	14189	679
	WY 2018	8899	8912	426	9000	0	9000				9083
	Oct 2018	464	518	38	640	0	640	3622.61	5177	14041	646
	Nov 2018	450	514	36	640	0	640	3621.20	5165	13891	644
	Dec 2018	363	497	29	720	0	720	3619.01	5146	13658	726
	Jan 2019	361	489	9	860	0	860	3615.64	5118	13307	866
	Feb 2019	393	443	9	750	0	750	3612.79	5095	13013	752
	Mar 2019	665	603	16	800	0	800	3610.85	5079	12816	805
	Apr 2019	1056	877	25	710	0	710	3612.15	5090	12948	718
	May 2019	2343	2203	31	710	0	710	3625.01	5198	14302	716
	Jun 2019	2666	2374	52	750	0	750	3637.91	5314	15757	756
	Jul 2019	1091	1000	65	850	0	850	3638.58	5321	15836	865
	Aug 2019	500	586	65	900	0	900	3635.57	5293	15486	914
	Sep 2019	408	514	59	670	0	670	3633.84	5277	15287	679
	WY 2019	10760	10618	432	9000	0	9000				9086
	Oct 2019	512	569	40	640	0	640	3632.93	5268	15184	646

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 2017 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



		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)
*	Nov 2016	750	77	42	751	12.6	16	750	632	1076.55	9727
H	Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
I	Jan 2017	880	128	30	500	8.1	7	494	684	1086.08	10521
S	Feb 2017	711	150	28	488	8.8	7	487	704	1089.78	10838
T	Mar 2017	722	97	32	911	14.8	16	910	696	1088.26	10707
O	Apr 2017	623	92	39	961	16.1	20	960	677	1084.89	10420
R	May 2017	652	39	44	917	14.9	29	915	659	1081.56	10141
I	Jun 2017	749	17	53	864	14.5	29	864	648	1079.52	9971
C	Jul 2017	850	89	66	885	14.4	31	885	646	1079.03	9931
A	Aug 2017	900	94	70	683	11.1	28	683	658	1081.44	10131
L	Sep 2017	663	70	58	600	10.1	21	596	662	1082.05	10182
	WY 2017	9000	994	541	8620		234	8596			
*	Oct 2017	640	45	43	596	9.7	24	595	663	1082.30	10202
	Nov 2017	630	65	43	746	12.5	18	746	656	1081.04	10097
	Dec 2017	740	51	37	558	9.1	14	558	667	1083.09	10268
	Jan 2018	860	64	30	578	9.4	12	578	686	1086.45	10553
	Feb 2018	750	72	28	690	12.4	14	690	691	1087.44	10637
	Mar 2018	800	46	31	1053	17.1	21	1053	676	1084.57	10393
	Apr 2018	690	39	38	1056	17.7	23	1056	652	1080.21	10029
	May 2018	700	26	44	960	15.6	27	960	633	1076.75	9743
	Jun 2018	760	10	52	873	14.7	33	873	622	1074.58	9567
	Jul 2018	860	77	65	831	13.5	36	831	622	1074.64	9572
	Aug 2018	900	127	69	728	11.8	34	728	634	1076.90	9755
	Sep 2018	670	110	57	741	12.4	27	741	631	1076.39	9714
	WY 2018	9000	731	537	9408		284	9407			
	Oct 2018	640	71	42	501	8.2	28	501	640	1077.99	9845
	Nov 2018	640	65	42	665	11.2	21	665	639	1077.73	9824
	Dec 2018	720	51	36	588	9.6	14	588	647	1079.25	9949
	Jan 2019	860	64	30	627	10.2	12	627	662	1082.12	10187
	Feb 2019	750	72	28	697	12.6	14	697	667	1083.04	10265
	Mar 2019	800	46	31	1058	17.2	21	1058	651	1080.07	10017
	Apr 2019	710	39	38	1060	17.8	23	1060	628	1075.82	9668
	May 2019	710	26	43	964	15.7	27	964	610	1072.37	9389
	Jun 2019	750	10	51	875	14.7	33	875	598	1070.02	9201
	Jul 2019	850	77	64	833	13.5	36	833	598	1069.96	9196
	Aug 2019	900	127	68	729	11.9	34	729	610	1072.26	9380
	Sep 2019	670	110	56	744	12.5	27	744	607	1071.72	9337
	WY 2019	9000	757	527	9340		291	9340			
	Oct 2019	640	71	41	506	8.2	28	506	615	1073.31	9465

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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)
*	Nov 2016	751	-29	11	574	0	574	9.6	640.09	1620
H	Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
I	Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
S	Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
T	Mar 2017	911	-27	13	844	0	844	13.7	643.70	1718
O	Apr 2017	961	-23	17	955	0	955	16.1	642.45	1684
R	May 2017	917	-13	22	846	0	846	13.8	643.74	1719
I	Jun 2017	864	-6	25	853	0	853	14.3	643.01	1699
C	Jul 2017	885	-5	26	809	0	809	13.2	644.65	1744
A	Aug 2017	683	-8	23	707	0	707	11.5	642.64	1689
L	Sep 2017	600	-11	18	656	0	656	11.0	639.47	1603
	WY 2017	8620	-183	199	8261	0	8261			
*	Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
	Nov 2017	746	-11	11	619	0	619	10.4	640.01	1618
	Dec 2017	558	-10	9	538	0	538	8.8	640.01	1618
	Jan 2018	578	-19	10	501	0	501	8.1	641.80	1666
	Feb 2018	690	-16	10	613	51	664	12.0	641.80	1666
	Mar 2018	1053	-16	13	989	0	989	16.1	643.05	1700
	Apr 2018	1056	-20	17	1020	0	1020	17.1	643.00	1699
	May 2018	960	-13	22	925	0	925	15.0	643.00	1699
	Jun 2018	873	-18	25	857	0	857	14.4	642.00	1671
	Jul 2018	831	-16	25	803	0	803	13.1	641.50	1658
	Aug 2018	728	-12	23	693	0	693	11.3	641.50	1658
	Sep 2018	741	-11	18	751	0	751	12.6	640.01	1617
	WY 2018	9408	-164	197	8980	51	9031			
	Oct 2018	501	-4	15	666	0	666	10.8	633.00	1434
	Nov 2018	665	-11	10	592	0	592	10.0	635.00	1486
	Dec 2018	588	-10	9	471	0	471	7.7	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	9340	-166	197	8918	58	8976			
	Oct 2019	506	-4	15	670	0	670	10.9	633.00	1434

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 2017 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Nov 2016	574	21	9	374	6.3	78	140	446.33	549	97	1.6
H	Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
I	Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
S	Feb 2017	486	14	8	393	7.1	13	62	448.30	586	160	2.9
T	Mar 2017	844	11	9	687	11.2	24	136	447.83	577	203	3.3
O	Apr 2017	955	13	11	729	12.3	42	160	448.73	594	181	3.0
R	May 2017	846	22	13	634	10.3	44	175	448.31	586	111	1.8
I	Jun 2017	853	0	15	689	11.6	58	79	448.41	588	126	2.1
C	Jul 2017	809	18	17	666	10.8	58	71	448.63	592	131	2.1
A	Aug 2017	707	12	17	570	9.3	58	70	448.28	585	102	1.7
L	Sep 2017	656	17	15	481	8.1	56	134	447.17	564	104	1.7
	WY 2017	8261	223	140	6204		665	1406			1513	
*	Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
	Nov 2017	619	19	9	378	6.4	89	133	447.50	570	102	1.7
	Dec 2017	538	19	7	352	5.7	83	124	446.80	557	109	1.8
	Jan 2018	501	17	6	324	5.3	68	121	446.50	552	138	2.2
	Feb 2018	664	10	8	497	8.9	42	121	446.50	552	160	2.9
	Mar 2018	989	7	9	725	11.8	59	190	446.70	555	198	3.2
	Apr 2018	1020	19	11	719	12.1	77	185	448.70	593	175	2.9
	May 2018	925	15	13	646	10.5	79	190	448.70	593	104	1.7
	Jun 2018	857	15	16	687	11.5	77	79	448.70	593	105	1.8
	Jul 2018	803	26	17	654	10.6	79	79	448.00	580	111	1.8
	Aug 2018	693	25	17	591	9.6	79	30	447.50	571	100	1.6
	Sep 2018	751	20	15	517	8.7	77	153	447.50	570	89	1.5
	WY 2018	9031	201	139	6568		878	1535			1457	
	Oct 2018	666	28	12	494	8.0	39	141	447.50	571	74	1.2
	Nov 2018	592	19	9	416	7.0	39	141	447.50	571	116	1.9
	Dec 2018	471	19	7	317	5.2	39	141	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	642	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	8976	220	139	6548		827	1577			1500	
	Oct 2019	670	28	12	490	8.0	47	142	447.50	571	74	1.2

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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
* Nov 2016	751	12.6	1076.55	9727	17	427.42	1072.0	290.6	80	386.7
H Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
I Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
S Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
T Mar 2017	911	14.8	1088.26	10707	-131	440.44	1291.1	362.0	79	397.2
O Apr 2017	961	16.1	1084.89	10420	-287	439.75	1227.0	381.0	76	396.5
R May 2017	917	14.9	1081.56	10141	-280	434.83	1307.0	360.6	80	393.4
I Jun 2017	864	14.5	1079.52	9971	-169	433.52	1500.0	335.0	94	387.5
C Jul 2017	885	14.4	1079.03	9931	-40	432.24	1499.0	341.1	94	385.5
A Aug 2017	683	11.1	1081.44	10131	200	436.25	1478.1	261.0	93	382.0
L Sep 2017	600	10.1	1082.05	10182	51	440.10	976.1	230.7	66	384.8
WY 2017	8620							3347.1		
* Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
Nov 2017	746	12.5	1081.04	10097	-105	435.45	996.0	298.9	63	400.4
Dec 2017	558	9.1	1083.09	10268	171	435.12	916.0	218.0	57	391.0
Jan 2018	578	9.4	1086.45	10553	284	437.19	932.1	228.0	58	394.4
Feb 2018	690	12.4	1087.44	10637	84	437.58	1115.0	275.9	69	400.0
Mar 2018	1053	17.1	1084.57	10393	-244	435.54	1205.9	420.1	75	399.1
Apr 2018	1056	17.7	1080.21	10029	-365	431.56	1187.0	419.5	75	397.4
May 2018	960	15.6	1076.75	9743	-285	425.59	1480.0	370.9	95	386.5
Jun 2018	873	14.7	1074.58	9567	-177	422.55	1551.0	331.8	100	380.0
Jul 2018	831	13.5	1074.64	9572	5	422.00	1551.0	319.3	100	384.5
Aug 2018	728	11.8	1076.90	9755	183	423.31	1564.0	277.0	100	380.4
Sep 2018	741	12.4	1076.39	9714	-41	424.66	1560.0	284.1	100	383.7
WY 2018	9408							3672.4		
Oct 2018	501	8.2	1077.99	9845	131	430.06	1167.9	195.6	74	390.3
Nov 2018	665	11.2	1077.73	9824	-22	432.35	1264.0	258.0	81	388.0
Dec 2018	588	9.6	1079.25	9949	125	431.79	1171.0	227.5	74	387.2
Jan 2019	627	10.2	1082.12	10187	238	433.64	899.0	248.3	57	395.8
Feb 2019	697	12.6	1083.04	10265	78	435.09	820.9	282.0	51	404.6
Mar 2019	1058	17.2	1080.07	10017	-248	432.38	1000.0	425.3	63	402.0
Apr 2019	1060	17.8	1075.82	9668	-349	427.14	1156.7	417.0	75	393.5
May 2019	964	15.7	1072.37	9389	-279	421.24	1442.1	368.8	95	382.7
Jun 2019	875	14.7	1070.02	9201	-187	418.12	1510.6	329.2	100	376.1
Jul 2019	833	13.5	1069.96	9196	-5	417.42	1510.0	316.7	100	380.4
Aug 2019	729	11.9	1072.26	9380	184	418.69	1522.8	274.4	100	376.4
Sep 2019	744	12.5	1071.72	9337	-43	420.05	1519.6	282.4	100	379.7
WY 2019	9340							3625.2		
Oct 2019	506	8.2	1073.31	9465	128	422.69	1137.3	193.7	74	382.8

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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
*	Nov 2016	574	9.6	640.09	1620	138	140.91	170.9	71.1	67	123.8
H	Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
I	Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
S	Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
T	Mar 2017	844	13.7	643.70	1718	28	141.08	194.1	109.6	76	129.9
O	Apr 2017	955	16.1	642.45	1684	-34	138.31	204.0	131.0	80	137.2
R	May 2017	846	13.8	643.74	1719	35	142.74	232.0	108.4	91	128.1
I	Jun 2017	853	14.3	643.01	1699	-20	141.59	255.0	107.4	100	126.0
C	Jul 2017	809	13.2	644.65	1744	45	143.65	255.0	101.5	100	125.5
A	Aug 2017	707	11.5	642.64	1689	-55	143.10	255.0	89.9	100	127.1
L	Sep 2017	656	11.0	639.47	1603	-86	138.07	253.3	83.2	99	126.8
WY 2017		8261						1061.4			
*	Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
	Nov 2017	619	10.4	640.01	1618	106	134.04	151.3	75.7	59	122.3
	Dec 2017	538	8.8	640.01	1618	0	136.84	131.6	67.2	52	124.8
	Jan 2018	501	8.1	641.80	1666	48	136.08	179.3	63.0	70	125.8
	Feb 2018	613	11.0	641.80	1666	0	139.17	111.1	76.9	44	125.5
	Mar 2018	989	16.1	643.05	1700	34	138.04	166.2	123.0	65	124.4
	Apr 2018	1020	17.1	643.00	1699	-1	137.36	207.4	127.2	81	124.6
	May 2018	925	15.0	643.00	1699	0	137.43	204.0	115.9	80	125.3
	Jun 2018	857	14.4	642.00	1671	-27	135.51	255.0	107.2	100	125.0
	Jul 2018	803	13.1	641.50	1658	-14	134.73	255.0	100.2	100	124.8
	Aug 2018	693	11.3	641.50	1658	0	134.46	255.0	86.7	100	125.2
	Sep 2018	751	12.6	640.01	1617	-40	133.68	255.0	93.2	100	124.0
WY 2018		8980						1117.5			
	Oct 2018	666	10.8	633.00	1434	-183	130.74	202.3	80.4	79	120.8
	Nov 2018	592	10.0	635.00	1486	51	129.19	170.0	70.4	67	118.9
	Dec 2018	471	7.7	638.71	1583	97	132.25	167.8	57.7	66	122.4
	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		8918						1105.9			
	Oct 2019	670	10.9	633.00	1434	-183	130.74	202.3	81.0	79	120.8

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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
*	Nov 2016	374	6.3	446.33	549	-11	80.55	90.0	26.0	75	69.6
H	Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
I	Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
S	Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
T	Mar 2017	687	11.2	447.83	577	-9	79.98	90.0	48.8	75	71.1
O	Apr 2017	729	12.3	448.73	594	17	80.51	120.0	51.3	100	70.3
R	May 2017	634	10.3	448.31	586	-8	82.36	120.0	44.8	100	70.6
I	Jun 2017	689	11.6	448.41	588	2	80.56	120.0	48.1	100	69.9
C	Jul 2017	666	10.8	448.63	592	4	82.74	120.0	46.5	100	69.9
A	Aug 2017	570	9.3	448.28	585	-7	82.37	120.0	39.9	100	70.0
L	Sep 2017	481	8.1	447.17	564	-21	81.08	120.0	33.8	100	70.2
WY 2017		6204							434.1		
*	Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
	Nov 2017	378	6.4	447.50	570	23	75.69	90.0	24.5	75	64.9
	Dec 2017	352	5.7	446.80	557	-13	75.80	92.9	22.7	77	64.6
	Jan 2018	324	5.3	446.50	552	-6	74.18	117.1	20.4	98	63.0
	Feb 2018	497	8.9	446.50	552	0	75.21	92.1	32.6	77	65.6
	Mar 2018	725	11.8	446.70	555	4	74.69	104.5	47.6	87	65.6
	Apr 2018	719	12.1	448.70	593	38	75.08	120.0	47.4	100	65.8
	May 2018	646	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	654	10.6	448.00	580	-13	75.71	120.0	43.2	100	66.1
	Aug 2018	591	9.6	447.50	571	-9	75.13	120.0	38.7	100	65.4
	Sep 2018	517	8.7	447.50	570	0	74.89	120.0	33.6	100	65.0
WY 2018		6568							432.9		
	Oct 2018	494	8.0	447.50	571	0	76.19	91.9	32.6	77	66.0
	Nov 2018	416	7.0	447.50	571	0	75.83	99.0	27.1	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	642	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		6548							429.0		
	Oct 2019	490	8.0	447.50	571	0	76.29	90.0	32.4	75	66.1

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 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
* Nov 2016	277	30	9	11	6	0
H Dec 2016	395	41	10	11	6	0
I Jan 2017	385	43	10	11	5	0
S Feb 2017	307	43	13	19	10	0
T Mar 2017	312	97	19	22	0	0
Winter 2017	1945	289	87	107	46	0
O Apr 2017	270	102	15	22	6	0
R May 2017	291	105	43	72	17	4
I Jun 2017	346	102	40	66	8	6
C Jul 2017	399	71	35	13	18	8
A Aug 2017	421	56	34	0	22	9
L Sep 2017	306	56	35	33	22	6
Summer 2017	2033	492	202	207	93	33
* Oct 2017	294	42	30	37	21	7
Nov 2017	263	47	13	15	8	7
Dec 2017	308	63	30	36	18	7
Jan 2018	357	63	22	27	14	6
Feb 2018	309	57	12	15	8	5
Mar 2018	328	45	11	15	8	5
Winter 2018	1859	318	118	145	76	37
Apr 2018	283	43	15	22	12	5
May 2018	288	70	44	61	23	7
Jun 2018	318	78	16	24	17	9
Jul 2018	362	37	25	31	16	10
Aug 2018	377	37	27	32	16	7
Sep 2018	279	36	23	28	15	7
Summer 2018	1906	302	149	199	100	44
Oct 2018	265	37	16	20	10	7
Nov 2018	265	36	15	19	10	6
Dec 2018	297	37	26	32	16	6
Jan 2019	353	37	24	30	15	6
Feb 2019	306	33	8	11	6	5
Mar 2019	325	37	8	12	7	5
Winter 2019	1810	218	97	123	64	34
Apr 2019	288	36	11	18	11	5
May 2019	292	59	45	64	23	7
Jun 2019	316	53	23	35	22	8
Jul 2019	363	36	29	36	20	10
Aug 2019	383	36	32	38	20	9
Sep 2019	284	35	29	34	18	7
Summer 2019	1642	220	141	191	96	39
Oct 2019	271	36	20	24	13	6

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



November 2017 24-Month Study

Most Probable Inflow*

Flood Control Criteria

Beginning of Month Conditions



Date	Flaming Gorge	Blue Mesa	Navajo	Lake Powell	Upper Basin Total	Lake Mead	Total	Flaming Gorge	Blue Mesa	Navajo	Tot or Max Allow	Lake Powell	Lake Mead	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Nov 2017	365	163	400	9792	10720	17175	27895	365	163	400	928	9792	17175	27895	3810	746	0	32.5
Dec 2017	420	170	402	9962	10955	17280	28234	420	170	402	993	9962	17280	28234	4580	558	0	32.2
Jan 2018	539	240	408	10165	11352	17109	28460	539	240	408	1187	10165	17109	28460	5350	578	0	32.1
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2018	539	240	408	10165	11352	17109	28460	161	164	348	672	10165	17109	27946	5350	578	0	32.1
Feb 2018	650	289	415	10483	11837	16824	28662	273	213	355	841	10483	16824	28148	1500	690	0	31.8
Mar 2018	746	305	416	10723	12189	16740	28929	369	231	354	954	10723	16740	28417	1500	1053	0	31.4
Apr 2018	754	307	391	10982	12434	16984	29417	372	235	322	929	10982	16984	28895	1500	1056	0	31.1
May 2018	743	288	347	10973	12352	17348	29700	356	216	255	828	10973	17348	29149	1500	960	0	31.7
Jun 2018	704	259	251	10271	11485	17634	29118	309	177	121	606	10271	17634	28511	1500	873	0	32.9
Jul 2018	546	103	207	9262	10118	17810	27929	139	4	21	163	9262	17810	27235	1500	831	0	32.7
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2018	429	94	247	9476	10246	17805	28051	429	94	247	770	9476	17805	28051	1500	728	0	32.4
Sep 2018	454	123	282	9897	10757	17622	28378	454	123	282	859	9897	17622	28378	2270	741	0	31.9
Oct 2018	504	156	311	10133	11103	17663	28766	504	156	311	970	10133	17663	28766	3040	501	0	31.7
Nov 2018	549	170	309	10281	11309	17532	28841	549	170	309	1029	10281	17532	28841	3810	665	0	31.5
Dec 2018	598	189	315	10431	11533	17553	29086	598	189	315	1102	10431	17553	29086	4580	588	0	31.3
Jan 2019	666	250	326	10664	11905	17428	29334	666	250	326	1242	10664	17428	29334	5350	627	0	31.2
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2019	666	250	326	10664	11905	17428	29334	368	250	85	703	10664	17428	28795	5350	627	0	31.2
Feb 2019	728	306	339	11015	12389	17190	29579	429	306	97	832	11015	17190	29038	1500	697	0	30.9
Mar 2019	778	309	340	11309	12736	17112	29848	476	309	97	883	11309	17112	29304	1500	1058	0	30.5
Apr 2019	781	301	295	11506	12882	17360	30242	476	301	45	821	11506	17360	29687	1500	1060	0	30.5
May 2019	752	266	213	11374	12605	17709	30315	440	266	-60	646	11374	17709	29730	1500	964	0	31.7
Jun 2019	678	206	252	10020	11156	17988	29144	356	206	-61	500	10020	17988	28509	1500	875	0	33.2
Jul 2019	450	42	393	8565	9450	18176	27626	112	24	24	160	8565	18176	26900	1500	833	0	33.3
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2019	356	18	430	8486	9290	18181	27471	356	18	430	804	8486	18181	27471	1500	729	0	33.0
Sep 2019	381	49	453	8836	9719	17997	27716	381	49	453	883	8836	17997	27716	2270	744	0	32.6
Oct 2019	434	96	454	9035	10019	18040	28058	434	96	454	984	9035	18040	28058	3040	506	0	32.4

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