

March 24-Month Study
Date: March 14, 2017

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

Current Reservoir Status

Reservoir	February Inflow (unregulated) (acre-feet)	Percent of Average (%)	March 13, Midnight Elevation (feet)	March 13, Midnight Reservoir Storage (acre-feet)
Fontenelle	51,000	184	6,483.38	185,000
Flaming Gorge	106,000	236	6,022.93	3,084,000
Blue Mesa	28,000	127	7,486.31	553,000
Navajo	55,000	161	6,060.55	1,355,000
Powell	555,000	141	3,593.90	11,180,000

Expected Operations

The operation of Lake Powell and Lake Mead in this March 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). Pursuant to the Interim Guidelines, the August 2016 24-Month Study projections of the January 1, 2017, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2017.

Consistent with Section 6.B of the Interim Guidelines, Lake Powell's operations in water year 2017 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 2017. The March 2017 24-Month Study projects an April adjustment to equalization, consistent with Section 6.B.3 of the Interim Guidelines, with a projected release of 11.1 maf in water year 2017.

Since the March final forecast was issued on March 2, 2017, the Colorado Basin River Forecast Center Ensemble Streamflow Prediction indicates a decrease in the forecasted inflow. It is unlikely that the March final forecasted inflow will be sustained in the April final forecast. The April 24-Month Study projections are used to determine whether there is an adjustment to equalization or balancing under the

Interim Guidelines governing Lake Powell releases for the remainder of water year 2017.

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

The Interim Guidelines are available for download at:

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

The 2017 AOP is available for download at:

<https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP17.pdf>.

Fontenelle Reservoir – Fontenelle Reservoir is currently at elevation 6482 feet above sea level (feet), which amounts to 51 percent of live storage capacity. Inflows for the month of January totaled 44,600 acre-feet (af), or 148 percent of average. Above average inflows are forecasted over the next few months and releases have been increased in order to meet the spring elevation target. Releases have been set to base flow levels of 1,025 cubic feet per second (cfs) and are anticipated to increase to 2,025 cfs whenever downstream icing threats have passed.

The Colorado Basin River Forecast Center has forecasted spring inflows that are significantly above average. March, April, and May forecasted inflow volumes amount to 88,000 af (167 percent of average), 200,000 af (234 percent of average), and 410,000 af (250 percent of average), respectively.

The next Fontenelle Working Group meeting is scheduled for 10:00 a.m., April 19, 2017. The meeting will be held at Seedskaadee Wildlife Refuge Headquarters, Wyoming. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

Flaming Gorge Reservoir – Releases are currently increasing to power plant capacity (~4,600 cfs) by March 9, 2017, and are expected to remain at this level through March.

Unregulated inflow into Flaming Gorge Reservoir during the month of February was 105,000 af, or 236 percent of average. The reservoir elevation is 6,022.7 feet (82 percent of live capacity) and decreasing.

The March final forecast for inflows for the next three months projects above average conditions: March, April and May forecasted inflow volumes at 250,000 af (244 percent of average), 340,000 af (255 percent of average), and 615,000 af (251 percent of average), respectively.

The March water supply forecast of the April through July unregulated inflow volume into Flaming Gorge Reservoir is 2.26 maf (231 percent of average). Current snowpack is 176 percent of median and we have received 146 percent of the season peak for the Upper Green Basin with additional storm systems anticipated.

The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stakeholders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. Meeting notes from past Working Group meetings are posted on the Working Group webpage. For more information on this group and these meetings please contact Dale Hamilton at 801-379-1186 or Heather Patno at 801-524-3883.

Reclamation will be holding the Flaming Gorge Working Group meeting on Thursday, April 20, 2017, at 10:00 a.m. at the Utah Division of Wildlife Resources offices located at 318 North Vernal Avenue, Vernal, Utah.

Aspinall Unit Reservoirs – Crystal Dam is currently releasing 1,200 cfs and the Gunnison Tunnel diversion is shut down for the 2016 irrigation season. The average flow through the Black Canyon is measuring approximately 1,200 cfs at the stream gage below Gunnison Tunnel. The February unregulated inflow to Blue Mesa Reservoir was 28,000 af (127 percent of average). The end of February reservoir elevation for Blue Mesa was 7,488.71 feet with live storage in Blue Mesa measuring approximately 571,400 af (68.9 percent full).

For the Gunnison River Basin, February was a continuation of the wet conditions observed in January. On January 31, 2017, the snow pack in the basin measured approximately 167 percent of the median for that date. At the end of February, on February 28, 2017, the snowpack in the basin was still well above normal with 152 percent of median for that date. As of the timing of this update (March 14, 2017) the snowpack is 140 percent of median for this date.

Unregulated Inflows to Blue Mesa for the next three months (March, April and May) are forecasted to be: 40,000 af (111 percent of average), 100,000 af (130 percent of average) and 300,000 af (149 percent of average), respectively. The April through July unregulated inflow forecast increased from 925,000 af (137 percent of average) for February to 970,000 af (144 percent of average) for March. The March 24-Month Study is reflective of this new forecast.

The Aspinall Unit Working Group is an open public forum for information exchange between Reclamation and the stakeholders of the Aspinall Unit. The public is encouraged to attend and comments on the operations and plans presented by Reclamation at these meetings. Meeting notes from past working Group meetings are posted on the Working Group webpage. For more information on this group and these meetings please contact Erik Knight in the Grand Junction Area Office at (970) 248-0629.

The next meeting of the Aspinall Unit Working Group will be held on Thursday, April 27th, 2017 at 1:00 pm at the Western Colorado Area Office located at 445 West Gunnison Avenue in Grand Junction, Colorado.

Navajo Reservoir – As of March 7th, 2017, Navajo reservoir elevation is 6059.7 feet (1.344 maf live storage) and is releasing 500 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 in January was 55,418 af, which was 183 percent of average for the month. Releases in January averaged 476 cfs and totaled 26,456 af, or 56 percent of average.

Inflows for the next three months are projected to be below average: with March, April, and May forecasted inflow volumes at 120 kaf (134 percent of average), 182 kaf (107 percent of average), and 320 kaf (115 percent of average), respectively.

The Most Probable April-July runoff forecast is 840,000 af (114 percent of average). Under the current Most Probable forecast, Navajo has enough available water for a spring peak release of 50 days at 5,000 cfs. The ramp-up lasting 2-3 weeks would likely begin the last week of April. A public informational meeting regarding the spring peak release is scheduled for April 5th, 2017, at 6pm at the Farmington Civic Center, Farmington, NM.

Releases will be made to maintain the target baseflow in the critical habitat reach for the remainder of the fall and winter and will likely range between 350 and 500 cfs. Under the most probable forecast, Navajo will peak at an elevation of 6073 ft in late April.

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 April 25th, 2017, at 1pm at the Farmington Civic Center, Farmington, NM.

Glen Canyon Dam / Lake Powell

Current Status

The unregulated inflow volume to Lake Powell in February was 555 thousand acre-feet (kaf) (141 percent of average). The release volume from Glen Canyon Dam in February was 711 kaf. The end of February elevation and storage of Lake Powell were 3,594 feet

(106 feet from full pool) and 11.2 maf (46 percent of full capacity), respectively. The reservoir is declining and will continue to decline until spring runoff begins to enter the reservoir. The current snowpack above Lake Powell is 147 percent of median.

Current Operations

The operating tier for water year 2017, established in August 2016, is the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 maf and the potential for an April 2017 adjustment to equalization or balancing releases. Based on the March 1 forecast, an April adjustment to equalization releases is projected to occur and Lake Powell is currently projected to release 11.1 maf in water year 2017. This is only a projection, the actual April forecast and 24 Month Study will determine the final 2017 volume release from Glen Canyon Dam.

It should be noted that since the March final forecast was issued on March 2, 2017, the Colorado Basin River Forecast Center Ensemble Streamflow Prediction indicates a decrease in the forecasted inflow. It is unlikely that the March final forecasted inflow will be sustained in the April final forecast. The April 24-Month Study projections are used to determine whether there is an adjustment to equalization or balancing under the Interim Guidelines governing Lake Powell releases for the remainder of water year 2017.

In March 2017, the release volume will be approximately 720 thousand acre-feet (kaf), with fluctuations anticipated between approximately 8,000 cfs and 14,000 cfs and consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The anticipated release volume for April is approximately 710 kaf with daily fluctuations between approximately 9,000 cfs and 15,000 cfs. The expected release for May is 1,020 kaf with daily fluctuations between approximately 12,300 cfs and 20,300 cfs.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 mega-watts (mw) of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of up to about 1,200 cfs above or below the hourly scheduled release rate. Under system normal conditions, fluctuations for regulation are typically short lived and generally balance out over the hour with minimal or no noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled releases when called upon to respond to unscheduled power outages or power system emergencies. Depending on the severity of the system emergency, the response from Glen Canyon Dam can be significant, within the full range of the operating capacity of the power plant for as long as is necessary to maintain balance in the transmission system. Glen Canyon Dam currently maintains 27 mw (approximately 800 cfs) of generation capacity in reserve in order to respond to a system emergency even when generation rates are already high. System emergencies occur fairly infrequently and typically require small responses

from Glen Canyon Dam. However, these responses can have a noticeable impact on the river downstream of Glen Canyon Dam.

Inflow Forecasts and Model Projections

The April to July 2017 water supply forecast for unregulated inflow to Lake Powell, issued on March 2, 2017, by the Colorado Basin River Forecast Center, projects that the most probable (median) unregulated inflow volume will be 10.4 maf (145 percent of average based on the period 1981-2010). The projected water year 2017 inflow is 14.3 maf (132 percent). At this early point in the season, there is still significant uncertainty regarding this year's water supply. The April-July forecast ranges from a minimum probable of 7.6 maf (106 percent) to a maximum probable of 13.8 maf (193 percent). There is a 10 percent chance that inflows could be higher than the current maximum probable forecast and a 10 percent chance that inflows could be lower than the minimum probable forecast.

Based on the current forecast, the March 24-Month Study projects Lake Powell to operate for equalization, resulting in a 2017 end of water year elevation near 3,632 feet with approximately 15.0 maf in storage (62 percent capacity). Note that projections of elevation and storage for water year 2017 have significant uncertainty at this point in the season. Projections of elevation and storage using the minimum and maximum probable inflow forecast, updated in January, are 3,586 feet (10.4 maf, 43 percent capacity) and 3,640 feet (16.0 maf, 66 percent capacity), respectively. Under these scenarios, there is a 10 percent chance that inflows will be higher, resulting in higher elevation and storage, and 10 percent chance that inflows will be lower, potentially in lower elevation and storage. The annual release volume from Lake Powell during water year 2017 is projected to be 11.1 maf under the most and maximum probable inflow, and 9.0 maf under the minimum scenarios. There is a chance that inflows could be higher or lower, potentially resulting in releases greater than 11.1 maf or as low as 8.23 maf in water year 2017. Modeling of projected reservoir operations based on the minimum and maximum scenarios will be updated again in April.

Upper Colorado River Basin Hydrology

The Upper Colorado River Basin regularly experiences significant year to year hydrologic variability. During the 17-year period 2000 to 2016, 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 3 out of the past 17 years. The period 2000-2016 is the lowest 17-year period since the closure of Glen Canyon Dam in 1963, with an average unregulated inflow of 8.57 maf, or 79 percent of the 30-year average (1981-2010). (For comparison, the 1981-2010 total water year average is 10.83 maf.) The unregulated inflow during the 2000-2016 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 2016 unregulated inflow volume to Lake Powell was 9.62 maf (89 percent of average), which, though still below average, was significantly higher than inflows observed in 2012 and 2013 (45 percent and 47 percent of average, respectively). Under the current most probable forecast, the total water year

2017 unregulated inflow to Lake Powell is projected to be 14.3 maf (132 percent of average).

At the beginning of water year 2017, total system storage in the Colorado River Basin was 30.2 maf (50 percent of 59.6 maf total system capacity). This is nearly the same as the total storage at the beginning of water years 2015 and 2016 which began at 30.1 maf and 30.3 maf, respectively, both of which were 50 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% 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 2017 is approximately 32.8 maf (55 percent of total system capacity). The actual end of water year 2017 system storage may vary from this projection, primarily due to uncertainty regarding the season's snowpack and resulting runoff and reservoir inflow. Based on the January minimum and maximum probable inflow forecasts and modeling, the range of end of water year 2017 total system capacity is approximately 27.3 maf (46 percent) to 33.5 maf (56 percent), respectively.

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION
WATER RESOURCES GROUP
ATTENTION UC-430
125 SOUTH STATE STREET, ROOM 6107
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	feb	Forecast	Outlook					
:		nov	dec	jan	feb	%Avg	mar	apr	may	apr-jul	%Avg
GLDA3: Lake Powell		383	300	359	555	141%:	870/	1500/	3400/	10400/:	145%
GBRW4: Fontenelle		62	37	45	51	184%:	88/	200/	410/	1680/:	232%
GRNU1: Flaming Gorge		73	35	49	105	236%:	250/	340/	615/	2260/:	231%
BMDC2: Blue Mesa		26	26	29	28	125%:	40/	100/	300/	970/:	144%
MPSC2: Morrow Point		28	27	30	30	121%:	44/	115/	330/	1060/:	143%
CLSC2: Crystal		31	31	35	34	118%:	51/	130/	380/	1190/:	143%
TPIC2: Taylor Park		4.2	4.9	5.5	4.2	111%:	4/	10/	35/	128/:	129%
VCRC2: Vallecito		6.5	5.7	6.8	7.3	154%:	11/	24/	82/	225/:	116%
NVRN5: Navajo		24	26	35	56	185%:	120/	182/	320/	840/:	114%
LEMC2: Lemon		1.07	0.96	1.06	1.14	149%:	2/	6/	25/	65/:	118%
MPHC2: McPhee		3.4	4.0	5.1	8.3	167%:	30/	100/	200/	440/:	149%
RBSC2: Ridgway		4.8	4.5	4.5	4.5	125%:	6/	12/	30/	118/:	117%

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	50	1	58	0	58	6474.73	140
H	Apr 2016	91	1	56	0	56	6481.34	174
I	May 2016	186	2	86	20	106	6493.63	252
S	Jun 2016	293	2	101	143	243	6500.14	299
T	Jul 2016	80	3	73	3	76	6500.25	300
O	Aug 2016	29	2	65	0	65	6495.03	262
R	Sep 2016	26	2	36	21	58	6490.22	229
WY 2016		943	15	739	213	952		
I	Oct 2016	57	1	0	57	57	6490.08	228
C	Nov 2016	62	1	0	59	59	6490.44	230
A	Dec 2016	37	1	0	63	63	6486.33	203
L	Jan 2017	45	1	0	63	63	6483.20	184
*	Feb 2017	51	1	0	57	57	6482.06	178
	Mar 2017	88	1	78	0	78	6483.60	187
	Apr 2017	200	1	95	184	280	6467.06	107
	May 2017	410	1	94	312	406	6467.85	110
	Jun 2017	650	2	99	360	459	6500.00	299
	Jul 2017	420	3	101	276	377	6505.18	339
	Aug 2017	145	2	105	139	244	6491.53	238
	Sep 2017	85	2	67	0	67	6493.94	255
WY 2017		2249	14	640	1570	2209		
	Oct 2017	76	1	69	0	69	6494.83	261
	Nov 2017	54	1	67	0	67	6492.94	248
	Dec 2017	32	1	69	0	69	6487.27	210
	Jan 2018	30	1	69	0	69	6480.78	171
	Feb 2018	28	1	62	0	62	6473.84	136
	Mar 2018	53	0	69	0	69	6470.07	119
	Apr 2018	85	1	92	0	92	6468.30	112
	May 2018	164	1	95	0	95	6482.21	179
	Jun 2018	299	2	103	55	158	6502.52	318
	Jul 2018	178	3	99	48	148	6505.97	345
	Aug 2018	77	2	102	45	148	6496.36	272
	Sep 2018	46	2	60	0	60	6494.21	257
WY 2018		1121	15	956	148	1104		
	Oct 2018	49	1	61	0	61	6492.20	243
	Nov 2018	42	1	60	0	60	6489.41	225
	Dec 2018	32	1	61	0	61	6484.79	195
	Jan 2019	30	1	61	0	61	6479.26	163
	Feb 2019	28	0	56	0	56	6473.47	134

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
* Mar 2016	84	93	3	51	0	51	127	6025.13	3165	131
H Apr 2016	140	105	5	50	0	50	129	6026.43	3213	316
I May 2016	362	282	8	52	0	52	138	6032.01	3427	701
S Jun 2016	455	405	11	270	198	469	135	6030.17	3356	965
T Jul 2016	91	88	13	116	4	120	133	6029.03	3312	220
O Aug 2016	28	64	13	110	0	110	131	6027.55	3255	133
R Sep 2016	36	67	11	107	0	107	129	6026.27	3207	128
WY 2016	1427	1437	80	1406	203	1609				3435
I Oct 2016	70	70	7	85	0	85	128	6025.69	3186	119
C Nov 2016	73	70	4	77	0	77	128	6025.41	3175	112
A Dec 2016	35	61	2	106	0	106	126	6024.19	3130	136
L Jan 2017	49	67	2	110	0	110	124	6023.01	3087	155
* Feb 2017	106	112	2	109	0	109	124	6023.03	3088	189
Mar 2017	250	240	3	254	0	254	124	6022.59	3072	374
Apr 2017	340	420	5	280	113	393	125	6023.18	3093	678
May 2017	615	611	8	291	115	406	132	6028.28	3283	981
Jun 2017	830	639	11	283	229	512	137	6031.21	3396	1052
Jul 2017	475	432	14	293	47	341	140	6033.10	3470	441
Aug 2017	175	274	13	137	0	137	144	6036.06	3589	164
Sep 2017	100	82	12	132	0	132	142	6034.57	3529	152
WY 2017	3118	3078	81	2158	504	2662				4553
Oct 2017	91	84	8	137	0	137	140	6033.10	3470	170
Nov 2017	65	78	4	132	0	132	137	6031.68	3414	165
Dec 2017	35	72	2	137	0	137	135	6030.02	3350	162
Jan 2018	40	79	2	137	0	137	132	6028.53	3293	162
Feb 2018	45	79	2	124	0	124	131	6027.34	3248	151
Mar 2018	102	119	3	137	0	137	130	6026.80	3227	214
Apr 2018	134	140	5	132	0	132	130	6026.88	3230	348
May 2018	245	177	8	188	0	188	129	6026.39	3212	720
Jun 2018	390	248	10	188	0	188	131	6027.67	3260	608
Jul 2018	210	180	14	100	0	100	134	6029.35	3324	200
Aug 2018	89	160	13	100	0	100	136	6030.51	3369	125
Sep 2018	55	69	11	97	0	97	134	6029.52	3331	116
WY 2018	1500	1484	80	1609	0	1609				3142
Oct 2018	59	72	7	100	0	100	133	6028.63	3296	133
Nov 2018	51	69	3	97	0	97	131	6027.82	3266	129
Dec 2018	35	64	2	100	0	100	130	6026.86	3230	125
Jan 2019	40	72	2	100	0	100	129	6026.08	3200	125
Feb 2019	45	72	2	91	0	91	128	6025.56	3181	118

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
* Mar 2016	5	6	9308.44	67
H Apr 2016	9	6	9310.70	71
I May 2016	17	11	9314.16	77
S Jun 2016	41	20	9325.34	97
T Jul 2016	11	21	9320.04	87
O Aug 2016	9	16	9315.75	79
R Sep 2016	6	14	9310.77	71
WY 2016	125	125		
I Oct 2016	5	6	9310.23	70
C Nov 2016	4	5	9309.76	70
A Dec 2016	5	5	9309.56	69
L Jan 2017	6	5	9309.76	70
* Feb 2017	4	5	9309.43	69
Mar 2017	4	6	9308.05	67
Apr 2017	10	15	9304.75	62
May 2017	35	22	9313.17	75
Jun 2017	62	30	9330.00	106
Jul 2017	21	25	9328.21	103
Aug 2017	11	18	9324.40	95
Sep 2017	9	18	9319.65	86
WY 2017	176	160		
Oct 2017	8	12	9317.04	82
Nov 2017	5	6	9316.75	81
Dec 2017	5	6	9315.99	80
Jan 2018	4	6	9315.03	78
Feb 2018	4	6	9313.72	76
Mar 2018	4	6	9312.79	74
Apr 2018	9	6	9314.44	77
May 2018	28	20	9319.18	85
Jun 2018	42	22	9329.49	105
Jul 2018	20	22	9328.56	103
Aug 2018	10	20	9323.59	94
Sep 2018	7	16	9318.92	85
WY 2018	147	148		
Oct 2018	7	8	9318.17	84
Nov 2018	5	6	9317.66	83
Dec 2018	5	6	9316.91	81
Jan 2019	4	6	9315.96	80
Feb 2019	4	6	9314.68	78

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

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March 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)
* Mar 2016	41	42	0	36	0	37	7487.62	563
H Apr 2016	75	72	1	63	0	63	7488.62	571
I May 2016	161	155	1	134	19	153	7488.74	572
S Jun 2016	285	265	1	46	0	46	7514.84	788
T Jul 2016	81	91	2	112	0	112	7512.31	766
O Aug 2016	57	65	1	110	0	110	7506.94	720
R Sep 2016	38	46	1	100	0	100	7500.48	665
WY 2016	881	882	9	913	19	934		
I Oct 2016	32	33	1	90	0	90	7493.44	608
C Nov 2016	26	27	0	33	0	33	7492.53	601
A Dec 2016	26	26	0	35	0	35	7491.43	593
L Jan 2017	29	28	0	34	0	34	7490.68	587
* Feb 2017	28	29	0	44	1	44	7488.71	571
Mar 2017	40	42	0	70	0	70	7485.03	543
Apr 2017	100	105	1	71	0	71	7489.35	576
May 2017	300	287	1	205	99	304	7486.98	558
Jun 2017	430	398	1	159	0	159	7515.58	795
Jul 2017	140	144	2	123	0	123	7517.73	815
Aug 2017	72	79	1	138	0	138	7511.07	755
Sep 2017	53	62	1	134	0	134	7502.52	682
WY 2017	1276	1260	9	1135	100	1235		
Oct 2017	48	53	1	77	0	77	7499.58	658
Nov 2017	35	36	0	52	0	52	7497.54	641
Dec 2017	26	27	0	85	0	85	7490.20	583
Jan 2018	24	26	0	55	0	55	7486.46	554
Feb 2018	22	25	0	38	0	38	7484.66	541
Mar 2018	36	38	0	44	0	44	7483.78	534
Apr 2018	77	74	1	54	0	54	7486.40	554
May 2018	221	213	1	139	0	139	7495.68	626
Jun 2018	261	241	1	86	0	86	7513.90	780
Jul 2018	117	119	2	118	0	118	7513.86	780
Aug 2018	63	73	1	127	0	127	7507.57	725
Sep 2018	38	47	1	108	0	108	7500.10	662
WY 2018	969	971	9	982	0	982		
Oct 2018	38	40	1	68	0	68	7496.57	633
Nov 2018	31	32	0	38	0	38	7495.84	628
Dec 2018	26	27	0	64	0	64	7491.15	590
Jan 2019	24	26	0	55	0	55	7487.44	562
Feb 2019	22	25	0	44	0	44	7484.92	542

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	43	37	2	39	36	0	36	7152.74	111
H	Apr 2016	83	63	7	71	71	0	71	7152.57	111
I	May 2016	176	153	15	168	176	4	180	7136.53	99
S	Jun 2016	302	46	18	64	52	0	52	7152.31	111
T	Jul 2016	83	112	2	114	113	0	113	7153.43	112
O	Aug 2016	58	110	1	111	111	0	111	7153.88	112
R	Sep 2016	39	100	1	100	103	0	103	7150.03	109
WY 2016		931	934	49	983	972	5	978		
I	Oct 2016	33	90	1	91	93	0	93	7146.55	106
C	Nov 2016	28	33	2	36	32	0	35	7147.39	107
A	Dec 2016	27	35	1	36	34	0	34	7150.44	109
L	Jan 2017	30	34	2	36	33	0	33	7153.75	112
*	Feb 2017	29	44	1	45	55	0	55	7140.48	102
	Mar 2017	44	70	4	74	64	0	64	7153.73	112
	Apr 2017	115	71	15	86	86	0	86	7153.73	112
	May 2017	330	304	30	334	306	28	334	7153.73	112
	Jun 2017	465	159	35	194	194	0	194	7153.73	112
	Jul 2017	150	123	10	133	133	0	133	7153.73	112
	Aug 2017	76	138	4	142	142	0	142	7153.73	112
	Sep 2017	57	134	4	138	138	0	138	7153.73	112
WY 2017		1385	1235	109	1343	1309	28	1340		
	Oct 2017	52	77	3	80	80	0	80	7153.73	112
	Nov 2017	38	52	3	55	55	0	55	7153.73	112
	Dec 2017	28	85	2	87	87	0	87	7153.73	112
	Jan 2018	27	55	2	57	57	0	57	7153.73	112
	Feb 2018	25	38	3	40	40	0	40	7153.73	112
	Mar 2018	40	44	4	48	48	0	48	7153.73	112
	Apr 2018	88	54	11	65	65	0	65	7153.73	112
	May 2018	247	139	26	165	165	0	165	7153.73	112
	Jun 2018	281	86	20	106	106	0	106	7153.73	112
	Jul 2018	123	118	6	124	124	0	124	7153.73	112
	Aug 2018	67	127	3	130	130	0	130	7153.73	112
	Sep 2018	41	108	3	111	111	0	111	7153.73	112
WY 2018		1056	982	86	1069	1069	0	1069		
	Oct 2018	41	68	3	70	70	0	70	7153.73	112
	Nov 2018	33	38	2	40	40	0	40	7153.73	112
	Dec 2018	28	64	2	66	66	0	66	7153.73	112
	Jan 2019	27	55	2	57	57	0	57	7153.73	112
	Feb 2019	25	44	3	46	46	0	46	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 2017 24-Month Study

Most Probable Inflow*
Crystal Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Mar 2016	48	36	5	41	41	0	41	6752.32	17	2	41
H	Apr 2016	92	71	9	80	80	0	80	6751.41	16	47	36
I	May 2016	194	180	18	198	109	64	197	6753.13	17	51	154
S	Jun 2016	344	52	41	93	74	20	93	6752.00	17	43	53
T	Jul 2016	89	113	6	119	117	2	119	6750.04	16	64	58
O	Aug 2016	62	111	4	114	114	0	114	6749.30	16	62	53
R	Sep 2016	42	103	3	106	106	1	107	6747.05	15	59	47
WY 2016		1034	978	103	1081	811	243	1080			384	724
I	Oct 2016	37	93	4	97	97	0	97	6747.92	15	57	39
C	Nov 2016	31	35	3	38	37	0	37	6750.47	16	1	36
A	Dec 2016	31	34	4	38	36	1	37	6751.45	17	0	37
L	Jan 2017	35	33	4	37	36	2	37	6750.29	16	1	37
*	Feb 2017	34	55	4	59	56	4	60	6749.56	16	0	60
	Mar 2017	51	64	7	71	70	0	70	6753.04	17	5	65
	Apr 2017	130	86	15	101	101	0	101	6753.04	17	30	71
	May 2017	380	334	50	384	134	250	384	6753.04	17	55	329
	Jun 2017	515	194	50	244	130	114	244	6753.04	17	60	184
	Jul 2017	165	133	15	148	134	13	148	6753.04	17	65	83
	Aug 2017	82	142	6	148	134	13	148	6753.04	17	65	83
	Sep 2017	62	138	5	143	130	13	143	6753.04	17	55	88
WY 2017		1552	1340	167	1507	1095	411	1506			394	1111
	Oct 2017	57	80	5	85	85	0	85	6753.04	17	30	55
	Nov 2017	42	55	4	59	59	0	59	6753.04	17	0	59
	Dec 2017	32	87	5	92	92	0	92	6753.04	17	0	92
	Jan 2018	31	57	5	61	61	0	61	6753.04	17	0	61
	Feb 2018	29	40	4	44	44	0	44	6753.04	17	0	44
	Mar 2018	46	48	6	54	54	0	54	6753.04	17	5	49
	Apr 2018	101	65	12	77	77	0	77	6753.04	17	30	47
	May 2018	281	165	34	199	134	65	199	6753.04	17	55	144
	Jun 2018	315	106	34	140	130	10	140	6753.04	17	60	80
	Jul 2018	138	124	14	138	134	4	138	6753.04	17	65	73
	Aug 2018	75	130	8	138	134	4	138	6753.04	17	65	73
	Sep 2018	47	111	6	117	117	0	117	6753.04	17	55	62
WY 2018		1194	1069	139	1207	1124	83	1207			365	842
	Oct 2018	47	70	6	76	76	0	76	6753.04	17	30	46
	Nov 2018	38	40	5	45	45	0	45	6753.04	17	0	45
	Dec 2018	32	66	5	71	71	0	71	6753.04	17	0	71
	Jan 2019	31	57	5	61	61	0	61	6753.04	17	0	61
	Feb 2019	29	46	4	50	50	0	50	6753.04	17	0	50

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	14	6	7652.71	94
H	Apr 2016	25	13	7657.23	105
I	May 2016	60	44	7663.23	121
S	Jun 2016	77	73	7664.30	124
T	Jul 2016	17	38	7656.15	102
O	Aug 2016	15	33	7648.82	84
R	Sep 2016	14	27	7643.21	71
WY 2016		269	270		
I	Oct 2016	11	8	7644.63	74
C	Nov 2016	6	2	7646.51	79
A	Dec 2016	6	2	7647.98	82
L	Jan 2017	7	5	7648.89	84
*	Feb 2017	7	15	7645.42	76
	Mar 2017	11	19	7641.93	68
	Apr 2017	24	18	7644.57	74
	May 2017	82	37	7662.64	119
	Jun 2017	90	84	7664.82	125
	Jul 2017	29	43	7659.18	110
	Aug 2017	19	38	7651.53	91
	Sep 2017	16	30	7645.63	77
WY 2017		309	300		
	Oct 2017	15	17	7644.47	74
	Nov 2017	9	2	7647.36	81
	Dec 2017	6	2	7649.23	85
	Jan 2018	5	2	7650.68	89
	Feb 2018	5	2	7651.90	92
	Mar 2018	9	2	7654.55	98
	Apr 2018	23	2	7662.74	119
	May 2018	71	65	7664.82	125
	Jun 2018	70	70	7664.82	125
	Jul 2018	29	42	7659.66	111
	Aug 2018	20	38	7652.37	93
	Sep 2018	17	30	7647.15	80
WY 2018		280	273		
	Oct 2018	16	17	7646.39	78
	Nov 2018	9	2	7649.32	85
	Dec 2018	6	2	7651.16	90
	Jan 2019	5	2	7652.58	93
	Feb 2019	5	2	7653.78	96

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	81	6	67	2	4	25	6067.08	1441	57
H	Apr 2016	119	14	94	3	19	22	6070.75	1491	49
I	May 2016	209	28	165	4	12	91	6074.87	1549	158
S	Jun 2016	214	35	174	5	25	250	6067.29	1443	387
T	Jul 2016	24	4	40	5	37	79	6061.29	1364	105
O	Aug 2016	30	4	45	4	33	35	6059.16	1337	56
R	Sep 2016	21	1	33	3	27	30	6056.98	1310	41
WY 2016		864	96	769	29	169	653			1066
I	Oct 2016	27	0	24	2	5	27	6056.19	1300	46
C	Nov 2016	24	0	19	1	0	22	6055.87	1296	43
A	Dec 2016	26	0	22	1	0	21	6055.92	1297	40
L	Jan 2017	35	0	32	1	0	23	6056.65	1306	40
*	Feb 2017	55	1	62	1	1	26	6059.31	1339	48
	Mar 2017	120	3	124	2	4	31	6066.05	1427	56
	Apr 2017	182	17	158	3	17	49	6072.62	1517	115
	May 2017	320	49	226	4	29	290	6065.57	1420	479
	Jun 2017	280	45	228	4	42	296	6056.71	1307	489
	Jul 2017	58	9	63	4	45	81	6051.16	1239	148
	Aug 2017	35	2	52	3	38	32	6049.31	1217	72
	Sep 2017	36	1	49	3	21	27	6049.16	1216	58
WY 2017		1198	129	1060	27	203	924			1633
	Oct 2017	42	2	42	2	8	24	6049.97	1225	51
	Nov 2017	32	1	24	1	0	22	6050.05	1226	40
	Dec 2017	25	0	20	1	0	23	6049.77	1223	38
	Jan 2018	22	0	18	1	0	23	6049.32	1218	37
	Feb 2018	30	0	27	1	0	21	6049.79	1223	33
	Mar 2018	92	2	83	2	5	23	6054.25	1276	45
	Apr 2018	170	15	134	2	21	22	6061.33	1365	75
	May 2018	277	37	234	4	35	192	6061.52	1367	338
	Jun 2018	224	32	191	4	51	238	6053.31	1265	389
	Jul 2018	66	6	73	4	56	28	6052.03	1250	96
	Aug 2018	45	1	62	3	47	33	6050.20	1228	72
	Sep 2018	43	1	55	3	26	26	6050.19	1228	59
WY 2018		1068	98	963	26	249	676			1273
	Oct 2018	47	2	47	2	10	23	6051.23	1240	51
	Nov 2018	34	1	26	1	0	22	6051.45	1243	40
	Dec 2018	25	0	20	1	0	23	6051.18	1240	38
	Jan 2019	22	0	18	1	0	23	6050.74	1234	37
	Feb 2019	30	0	27	1	0	21	6051.20	1240	33

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	553	486	14	694	0	694	3592.18	4935	11019	707
H	Apr 2016	814	681	22	665	0	665	3592.12	4935	11014	681
I	May 2016	2294	1925	26	700	0	700	3603.87	5024	12123	709
S	Jun 2016	2907	2618	46	800	0	800	3620.01	5155	13764	807
T	Jul 2016	595	804	58	950	0	950	3618.22	5140	13576	963
O	Aug 2016	253	432	56	900	0	900	3613.55	5101	13091	914
R	Sep 2016	281	461	50	699	0	699	3610.93	5080	12824	712
WY 2016		9616	9909	378	9000	0	9000				9117
I	Oct 2016	381	477	35	601	0	601	3609.48	5068	12678	610
C	Nov 2016	383	389	33	624	126	750	3605.81	5039	12313	754
A	Dec 2016	300	366	26	898	0	898	3600.49	4997	11797	913
L	Jan 2017	359	415	8	880	0	880	3595.86	4962	11359	900
*	Feb 2017	555	565	8	711	0	711	3594.33	4951	11217	720
	Mar 2017	870	811	14	720	0	720	3595.10	4957	11288	725
	Apr 2017	1500	1425	23	710	0	710	3601.87	5008	11929	718
	May 2017	3400	3243	29	1020	0	1020	3621.85	5171	13960	1026
	Jun 2017	4000	3514	52	1060	0	1060	3641.53	5348	16184	1066
	Jul 2017	1500	1426	67	1320	0	1320	3641.83	5351	16221	1335
	Aug 2017	650	715	65	1410	0	1410	3635.83	5295	15516	1424
	Sep 2017	450	576	58	991	0	991	3632.00	5260	15078	1000
WY 2017		14348	13922	417	10945	126	11071				11191
	Oct 2017	547	613	40	640	0	640	3631.45	5255	15016	646
	Nov 2017	489	565	38	640	0	640	3630.51	5247	14910	644
	Dec 2017	363	522	30	720	0	720	3628.62	5230	14699	726
	Jan 2018	361	489	9	760	0	760	3626.27	5209	14440	766
	Feb 2018	393	478	10	680	0	680	3624.48	5193	14243	682
	Mar 2018	665	646	17	710	0	710	3623.78	5187	14168	715
	Apr 2018	1056	919	27	640	0	640	3625.92	5206	14401	648
	May 2018	2343	2192	34	630	0	630	3638.41	5319	15816	636
	Jun 2018	2666	2387	57	660	0	660	3651.17	5443	17362	666
	Jul 2018	1091	1006	71	750	0	750	3652.53	5456	17533	765
	Aug 2018	500	611	71	800	0	800	3650.62	5437	17293	814
	Sep 2018	408	530	65	600	0	600	3649.62	5427	17168	609
WY 2018		10882	10958	471	8230	0	8230				8316
	Oct 2018	512	571	45	640	0	640	3648.76	5419	17062	646
	Nov 2018	473	515	43	640	0	640	3647.50	5406	16907	644
	Dec 2018	363	464	34	720	0	720	3645.31	5385	16639	726
	Jan 2019	361	452	11	1100	0	1100	3640.22	5336	16029	1106
	Feb 2019	393	451	11	970	0	970	3636.02	5297	15538	972

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
* Mar 2016	694	31	31	1008	16.4	18	1007	653	1080.45	10048
H Apr 2016	665	68	38	1055	17.7	18	1055	630	1076.13	9693
I May 2016	700	50	43	887	14.4	22	885	618	1073.80	9504
S Jun 2016	800	14	51	920	15.5	28	919	606	1071.64	9330
T Jul 2016	950	70	64	831	13.5	30	830	612	1072.75	9419
O Aug 2016	900	107	69	701	11.4	28	700	625	1075.17	9615
R Sep 2016	699	88	57	702	11.8	22	701	625	1075.23	9620
WY 2016	9000	798	531	9293		224	9282			
I Oct 2016	601	78	42	518	8.4	23	517	631	1076.34	9710
C Nov 2016	750	77	42	751	12.6	16	750	632	1076.55	9727
A Dec 2016	898	63	36	542	8.8	8	536	655	1080.82	10079
L Jan 2017	880	128	30	500	8.1	8	494	684	1086.08	10521
* Feb 2017	711	148	28	488	8.8	6	487	704	1089.78	10838
Mar 2017	720	46	32	880	14.3	16	880	695	1088.01	10686
Apr 2017	710	39	39	998	16.8	23	998	676	1084.57	10393
May 2017	1020	26	45	901	14.7	28	901	680	1085.37	10461
Jun 2017	1060	10	54	821	13.8	29	821	690	1087.19	10616
Jul 2017	1320	77	69	790	12.9	32	790	721	1092.70	11091
Aug 2017	1410	127	75	726	11.8	30	726	764	1100.21	11754
Sep 2017	991	110	63	791	13.3	27	791	777	1102.52	11961
WY 2017	11071	931	554	8708		246	8693			
Oct 2017	640	71	46	608	9.9	22	608	780	1102.88	11994
Nov 2017	640	65	46	767	12.9	14	767	772	1101.61	11879
Dec 2017	720	51	40	728	11.8	10	728	772	1101.53	11873
Jan 2018	760	64	32	721	11.7	7	721	776	1102.20	11932
Feb 2018	680	72	30	612	11.0	8	612	782	1103.26	12028
Mar 2018	710	46	33	1040	16.9	16	1040	761	1099.77	11715
Apr 2018	640	39	41	1100	18.5	23	1100	732	1094.62	11260
May 2018	630	26	46	971	15.8	29	971	708	1090.43	10894
Jun 2018	660	10	55	868	14.6	29	868	691	1087.35	10629
Jul 2018	750	77	68	828	13.5	32	828	685	1086.24	10534
Aug 2018	800	127	72	771	12.5	30	771	688	1086.82	10584
Sep 2018	600	110	59	700	11.8	27	700	683	1085.99	10513
WY 2018	8230	757	568	9713		248	9713			
Oct 2018	640	71	43	493	8.0	22	493	693	1087.66	10656
Nov 2018	640	65	44	638	10.7	14	638	693	1087.76	10664
Dec 2018	720	51	38	596	9.7	11	596	701	1089.14	10783
Jan 2019	1100	64	31	726	11.8	7	726	725	1093.46	11158
Feb 2019	970	72	29	613	11.0	9	613	749	1097.63	11525

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	1008	-16	13	921	0	921	15.0	643.17	1703
H	Apr 2016	1055	-18	17	979	0	979	16.4	644.70	1746
I	May 2016	887	-6	22	903	0	903	14.7	643.07	1701
S	Jun 2016	920	-16	26	838	0	838	14.1	644.53	1741
T	Jul 2016	831	-24	26	803	0	803	13.1	643.75	1719
O	Aug 2016	701	-12	23	714	0	714	11.6	642.00	1671
R	Sep 2016	702	-18	18	711	0	711	11.9	640.34	1627
WY 2016		9293	-195	198	8879	0	8879			
I	Oct 2016	518	-7	15	640	0	640	10.4	634.86	1482
C	Nov 2016	751	-29	11	574	0	574	9.6	640.09	1620
A	Dec 2016	542	-17	9	482	0	482	7.8	641.31	1653
L	Jan 2017	500	-23	10	408	0	408	6.6	643.47	1712
*	Feb 2017	488	-13	10	486	0	486	8.7	642.70	1690
	Mar 2017	880	-16	13	856	0	856	13.9	642.50	1685
	Apr 2017	998	-20	17	948	0	948	15.9	643.00	1699
	May 2017	901	-13	22	866	0	866	14.1	643.00	1699
	Jun 2017	821	-18	25	806	0	806	13.5	642.00	1671
	Jul 2017	790	-16	25	763	0	763	12.4	641.50	1658
	Aug 2017	726	-12	23	691	0	691	11.2	641.50	1658
	Sep 2017	791	-11	18	802	0	802	13.5	640.01	1617
WY 2017		8708	-196	198	8323	0	8323			
	Oct 2017	608	-4	15	772	0	772	12.6	633.00	1434
	Nov 2017	767	-11	10	694	0	694	11.7	635.00	1486
	Dec 2017	728	-10	9	612	0	612	9.9	638.71	1583
	Jan 2018	721	-19	10	609	0	609	9.9	641.80	1666
	Feb 2018	612	-16	10	586	0	586	10.6	641.80	1666
	Mar 2018	1040	-16	13	976	0	976	15.9	643.05	1700
	Apr 2018	1100	-20	17	1064	0	1064	17.9	643.00	1699
	May 2018	971	-13	22	936	0	936	15.2	643.00	1699
	Jun 2018	868	-18	25	852	0	852	14.3	642.00	1671
	Jul 2018	828	-16	25	800	0	800	13.0	641.50	1658
	Aug 2018	771	-12	23	736	0	736	12.0	641.50	1658
	Sep 2018	700	-11	18	711	0	711	11.9	640.01	1617
WY 2018		9713	-166	197	9349	0	9349			
	Oct 2018	493	-4	15	658	0	658	10.7	633.00	1434
	Nov 2018	638	-11	10	565	0	565	9.5	635.00	1486
	Dec 2018	596	-10	9	480	0	480	7.8	638.71	1583
	Jan 2019	726	-19	10	614	0	614	10.0	641.80	1666
	Feb 2019	613	-16	10	588	0	588	10.6	641.80	1666

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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)
*	Mar 2016	921	18	9	695	11.3	89	123	447.40	569	221	3.6
H	Apr 2016	979	18	11	689	11.6	93	169	448.89	597	202	3.4
I	May 2016	903	13	13	636	10.3	97	176	448.08	581	97	1.6
S	Jun 2016	838	18	15	633	10.6	95	89	448.81	596	92	1.5
T	Jul 2016	803	20	17	617	10.0	100	74	449.03	600	102	1.7
O	Aug 2016	714	23	17	570	9.3	85	65	448.50	590	99	1.6
R	Sep 2016	711	14	15	490	8.2	89	134	447.97	579	92	1.5
WY 2016		8879	225	140	6360		1057	1467			1496	
I	Oct 2016	640	36	12	466	7.6	80	133	446.90	559	61	1.0
C	Nov 2016	574	21	9	374	6.3	78	140	446.33	549	97	1.6
A	Dec 2016	482	26	7	271	4.4	86	118	447.64	573	112	1.8
L	Jan 2017	408	33	6	244	4.0	68	126	447.29	567	126	2.1
*	Feb 2017	486	15	8	393	7.1	13	62	448.30	586	160	2.9
	Mar 2017	856	7	9	707	11.5	26	128	447.50	571	203	3.3
	Apr 2017	948	19	11	739	12.4	41	155	448.00	580	175	2.9
	May 2017	866	15	13	634	10.3	44	165	448.70	593	104	1.7
	Jun 2017	806	15	16	666	11.2	41	85	448.70	593	105	1.8
	Jul 2017	763	26	17	643	10.5	57	72	448.00	580	111	1.8
	Aug 2017	691	25	17	570	9.3	57	72	447.50	571	100	1.6
	Sep 2017	802	20	15	522	8.8	101	176	447.50	570	89	1.5
WY 2017		8323	257	140	6230		690	1433			1444	
	Oct 2017	772	28	12	498	8.1	102	180	447.50	571	74	1.2
	Nov 2017	694	19	9	417	7.0	101	181	447.50	571	119	2.0
	Dec 2017	612	19	7	355	5.8	102	181	446.50	552	140	2.3
	Jan 2018	609	17	6	361	5.9	96	158	446.50	552	138	2.2
	Feb 2018	586	10	8	477	8.6	30	74	446.50	552	160	2.9
	Mar 2018	976	7	9	713	11.6	96	153	446.70	555	198	3.2
	Apr 2018	1064	19	11	745	12.5	94	184	448.70	593	175	2.9
	May 2018	936	15	13	640	10.4	96	190	448.70	593	104	1.7
	Jun 2018	852	15	16	671	11.3	94	74	448.70	593	105	1.8
	Jul 2018	800	26	17	639	10.4	96	74	448.00	580	111	1.8
	Aug 2018	736	25	17	573	9.3	96	74	447.50	571	100	1.6
	Sep 2018	711	20	15	510	8.6	39	158	447.50	570	89	1.5
WY 2018		9349	220	139	6600		1043	1681			1512	
	Oct 2018	658	28	12	486	7.9	32	148	447.50	571	74	1.2
	Nov 2018	565	19	9	390	6.5	32	148	447.50	571	116	1.9
	Dec 2018	480	19	7	326	5.3	32	148	446.50	552	131	2.1
	Jan 2019	614	17	6	360	5.8	104	157	446.50	552	138	2.2
	Feb 2019	588	10	8	475	8.6	35	73	446.50	552	160	2.9

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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
*	Mar 2016	1008	16.4	1080.45	10048	-311	434.20	973.0	402.7	61	399.7
H	Apr 2016	1055	17.7	1076.13	9693	-355	429.37	1244.0	413.9	80	392.2
I	May 2016	887	14.4	1073.80	9504	-189	426.83	1164.0	343.6	74	387.5
S	Jun 2016	920	15.5	1071.64	9330	-174	425.27	1528.0	349.7	100	380.2
T	Jul 2016	831	13.5	1072.75	9419	89	427.46	1528.0	311.5	100	374.8
O	Aug 2016	701	11.4	1075.17	9615	196	431.00	1549.0	265.2	100	378.4
R	Sep 2016	702	11.8	1075.23	9620	5	429.97	1539.0	266.3	100	379.1
WY 2016		9293							3596.9		
I	Oct 2016	518	8.4	1076.34	9710	90	438.10	1335.0	195.2	87	377.1
C	Nov 2016	751	12.6	1076.55	9727	17	427.42	1072.0	290.6	80	386.7
A	Dec 2016	542	8.8	1080.82	10079	352	438.26	1103.0	207.3	71	382.3
L	Jan 2017	500	8.1	1086.08	10521	442	442.12	857.0	192.4	55	384.9
*	Feb 2017	488	8.8	1089.78	10838	317	446.75	938.0	190.4	58	390.4
	Mar 2017	880	14.3	1088.01	10686	-152	437.81	1291.1	355.6	79	403.9
	Apr 2017	998	16.8	1084.57	10393	-293	435.55	1227.0	397.0	76	397.7
	May 2017	901	14.7	1085.37	10461	68	433.57	1251.0	354.7	80	393.6
	Jun 2017	821	13.8	1087.19	10616	155	433.07	1549.0	324.6	100	395.2
	Jul 2017	790	12.9	1092.70	11091	475	437.20	1550.0	312.9	100	395.9
	Aug 2017	726	11.8	1100.21	11754	663	443.82	1562.0	288.7	100	397.4
	Sep 2017	791	13.3	1102.52	11961	207	449.17	1562.0	322.3	100	407.3
WY 2017		8708							3431.6		
	Oct 2017	608	9.9	1102.88	11994	33	455.43	1166.9	247.6	74	407.4
	Nov 2017	767	12.9	1101.61	11879	-115	458.05	1050.9	321.7	67	419.4
	Dec 2017	728	11.8	1101.53	11873	-7	456.02	980.0	301.8	63	414.7
	Jan 2018	721	11.7	1102.20	11932	60	454.06	991.0	297.2	63	412.5
	Feb 2018	612	11.0	1103.26	12028	96	453.92	996.9	250.1	63	409.0
	Mar 2018	1040	16.9	1099.77	11715	-313	452.26	994.0	435.5	63	418.8
	Apr 2018	1100	18.5	1094.62	11260	-455	448.26	878.1	467.5	57	425.1
	May 2018	971	15.8	1090.43	10894	-365	440.25	1345.0	389.7	88	401.4
	Jun 2018	868	14.6	1087.35	10629	-265	435.66	1518.0	339.6	100	391.3
	Jul 2018	828	13.5	1086.24	10534	-95	434.07	1518.0	327.2	100	395.1
	Aug 2018	771	12.5	1086.82	10584	50	433.97	1604.1	302.4	100	392.0
	Sep 2018	700	11.8	1085.99	10513	-71	434.33	1601.8	272.5	100	389.4
WY 2018		9713							3953.0		
	Oct 2018	493	8.0	1087.66	10656	143	439.64	1196.9	195.9	74	397.1
	Nov 2018	638	10.7	1087.76	10664	9	443.58	1081.7	253.9	67	397.9
	Dec 2018	596	9.7	1089.14	10783	119	442.95	1012.3	238.0	63	399.3
	Jan 2019	726	11.8	1093.46	11158	375	443.54	1031.7	293.5	63	404.3
	Feb 2019	613	11.0	1097.63	11525	367	446.77	1044.9	247.4	63	403.4

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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
*	Mar 2016	921	15.0	643.17	1703	58	139.07	214.2	117.9	84	128.0
H	Apr 2016	979	16.4	644.70	1746	42	143.66	255.0	125.4	100	128.2
I	May 2016	903	14.7	643.07	1701	-45	141.63	252.5	115.5	99	127.8
S	Jun 2016	838	14.1	644.53	1741	40	143.17	255.0	107.4	100	128.1
T	Jul 2016	803	13.1	643.75	1719	-22	144.39	252.5	103.3	99	128.6
O	Aug 2016	714	11.6	642.00	1671	-48	142.46	255.0	91.6	100	128.4
R	Sep 2016	711	11.9	640.34	1627	-45	138.91	255.0	90.5	100	127.3
WY 2016		8879							1129.0		
I	Oct 2016	640	10.4	634.86	1482	-144	135.70	201.5	79.3	79	123.8
C	Nov 2016	574	9.6	640.09	1620	138	140.91	170.9	71.1	67	123.8
A	Dec 2016	482	7.8	641.31	1653	33	138.48	168.3	61.4	66	127.3
L	Jan 2017	408	6.6	643.47	1712	59	143.95	164.5	54.6	65	133.8
*	Feb 2017	486	8.7	642.70	1690	-21	141.54	162.1	63.8	64	131.4
	Mar 2017	856	13.9	642.50	1685	-5	137.33	194.1	107.2	76	125.3
	Apr 2017	948	15.9	643.00	1699	14	135.78	255.0	118.3	100	124.8
	May 2017	866	14.1	643.00	1699	0	136.04	255.0	108.8	100	125.6
	Jun 2017	806	13.5	642.00	1671	-27	135.51	255.0	100.9	100	125.3
	Jul 2017	763	12.4	641.50	1658	-14	134.73	255.0	95.3	100	125.0
	Aug 2017	691	11.2	641.50	1658	0	134.46	255.0	86.5	100	125.2
	Sep 2017	802	13.5	640.01	1617	-40	133.68	255.0	99.3	100	123.7
WY 2017		8323							1046.5		
	Oct 2017	772	12.6	633.00	1434	-183	130.74	202.3	92.8	79	120.2
	Nov 2017	694	11.7	635.00	1486	51	129.19	170.0	82.1	67	118.3
	Dec 2017	612	9.9	638.71	1583	97	132.25	167.8	74.3	66	121.5
	Jan 2018	609	9.9	641.80	1666	83	134.43	210.6	75.8	83	124.5
	Feb 2018	586	10.6	641.80	1666	0	136.73	187.6	73.7	74	125.7
	Mar 2018	976	15.9	643.05	1700	34	137.26	190.8	121.5	75	124.5
	Apr 2018	1064	17.9	643.00	1699	-2	136.07	255.0	132.5	100	124.4
	May 2018	936	15.2	643.00	1699	0	136.04	255.0	117.2	100	125.2
	Jun 2018	852	14.3	642.00	1671	-27	135.51	255.0	106.6	100	125.0
	Jul 2018	800	13.0	641.50	1658	-14	134.73	255.0	99.9	100	124.8
	Aug 2018	736	12.0	641.50	1658	0	134.46	255.0	92.0	100	124.9
	Sep 2018	711	11.9	640.01	1617	-40	133.68	255.0	88.3	100	124.3
WY 2018		9349							1156.6		
	Oct 2018	658	10.7	633.00	1434	-183	130.74	202.3	79.5	79	120.9
	Nov 2018	565	9.5	635.00	1486	51	129.19	170.0	67.3	67	119.1
	Dec 2018	480	7.8	638.71	1583	97	132.25	167.8	58.7	66	122.3
	Jan 2019	614	10.0	641.80	1666	83	134.43	210.6	76.5	83	124.5
	Feb 2019	588	10.6	641.80	1666	0	136.73	187.6	73.8	74	125.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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
* Mar 2016	695	11.3	447.40	569	17	81.63	104.4	48.9	87	70.3
H Apr 2016	689	11.6	448.89	597	28	83.09	120.0	48.4	100	70.3
I May 2016	636	10.3	448.08	581	-15	82.13	120.0	45.1	100	70.9
S Jun 2016	633	10.6	448.81	596	14	83.02	120.0	44.8	100	70.8
T Jul 2016	617	10.0	449.03	600	4	83.16	120.0	43.7	100	70.9
O Aug 2016	570	9.3	448.50	590	-10	82.60	120.0	40.2	100	70.7
R Sep 2016	490	8.2	447.97	579	-10	82.24	120.0	34.7	100	70.9
WY 2016	6345							447.6		
I Oct 2016	466	7.6	446.90	559	-20	78.88	93.6	32.8	78	70.5
C Nov 2016	374	6.3	446.33	549	-11	80.55	90.0	26.0	75	69.6
A Dec 2016	271	4.4	447.64	573	24	83.20	117.6	17.9	98	65.9
L Jan 2017	244	4.0	447.29	567	-6	81.95	93.9	16.2	78	66.5
* Feb 2017	393	7.1	448.30	586	19	82.67	90.0	27.9	75	71.0
Mar 2017	707	11.5	447.50	571	-15	76.68	90.0	47.6	75	67.3
Apr 2017	739	12.4	448.00	580	9	75.43	113.0	48.9	94	66.2
May 2017	634	10.3	448.70	593	13	75.71	120.0	41.9	100	66.0
Jun 2017	666	11.2	448.70	593	0	76.05	120.0	44.3	100	66.4
Jul 2017	643	10.5	448.00	580	-13	75.71	120.0	42.5	100	66.0
Aug 2017	570	9.3	447.50	571	-9	75.13	120.0	37.2	100	65.3
Sep 2017	522	8.8	447.50	570	0	75.69	102.0	34.3	85	65.8
WY 2017	6230							417.6		
Oct 2017	498	8.1	447.50	571	0	74.97	118.1	32.3	98	64.9
Nov 2017	417	7.0	447.50	571	0	75.93	97.0	27.3	81	65.3
Dec 2017	355	5.8	446.50	552	-19	74.40	120.0	22.5	100	63.5
Jan 2018	361	5.9	446.50	552	0	74.88	98.7	23.1	82	64.0
Feb 2018	477	8.6	446.50	552	0	75.04	95.4	31.2	79	65.3
Mar 2018	713	11.6	446.70	555	4	74.01	120.0	46.3	100	65.0
Apr 2018	745	12.5	448.70	593	38	75.08	120.0	49.1	100	65.9
May 2018	640	10.4	448.70	593	0	76.05	120.0	42.4	100	66.3
Jun 2018	671	11.3	448.70	593	0	76.05	120.0	44.6	100	66.5
Jul 2018	639	10.4	448.00	580	-13	75.71	120.0	42.2	100	66.0
Aug 2018	573	9.3	447.50	571	-9	75.13	120.0	37.5	100	65.4
Sep 2018	510	8.6	447.50	570	0	75.73	101.0	33.5	84	65.8
WY 2018	6600							432.0		
Oct 2018	486	7.9	447.50	571	0	75.01	117.1	31.5	98	64.9
Nov 2018	390	6.5	447.50	571	0	75.83	99.0	25.3	83	65.0
Dec 2018	326	5.3	446.50	552	-19	74.40	120.0	20.6	100	63.2
Jan 2019	360	5.8	446.50	552	0	75.02	95.8	23.0	80	64.1
Feb 2019	475	8.6	446.50	552	0	75.21	92.1	31.1	77	65.5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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
* Mar 2016	298	20	10	11	7	4
Winter 2016	1871	274	100	118	38	23
H Apr 2016	288	19	18	25	16	4
I May 2016	305	20	38	61	21	7
S Jun 2016	360	105	14	18	15	9
T Jul 2016	435	46	34	40	22	6
O Aug 2016	408	44	33	39	22	6
R Sep 2016	315	42	30	36	20	3
Summer 2016	2111	276	166	218	116	34
I Oct 2016	269	33	26	33	19	0
C Nov 2016	277	30	9	11	6	0
A Dec 2016	395	41	10	11	6	0
L Jan 2017	385	43	10	11	5	0
* Feb 2017	307	43	13	19	10	0
Mar 2017	282	92	20	23	12	6
Winter 2017	1915	284	88	108	58	6
Apr 2017	280	102	21	31	17	7
May 2017	413	106	60	110	23	6
Jun 2017	447	104	48	70	22	8
Jul 2017	567	108	39	48	23	10
Aug 2017	602	51	43	51	23	10
Sep 2017	420	49	41	50	22	6
Summer 2017	2728	519	252	360	132	45
Oct 2017	270	51	23	29	15	6
Nov 2017	269	49	16	20	10	6
Dec 2017	302	50	25	31	16	6
Jan 2018	318	50	16	20	11	5
Feb 2018	284	45	11	15	8	4
Mar 2018	296	50	13	17	9	5
Winter 2018	1739	295	104	132	69	32
Apr 2018	267	48	16	23	13	6
May 2018	266	69	41	60	23	7
Jun 2018	285	69	26	38	22	9
Jul 2018	328	37	37	45	23	10
Aug 2018	349	37	39	47	23	10
Sep 2018	261	36	33	40	20	5
Summer 2018	1144	223	120	166	82	31
Oct 2018	279	37	20	25	13	5
Nov 2018	278	36	11	14	8	5
Dec 2018	312	37	19	24	12	5
Jan 2019	474	37	16	20	11	5
Feb 2019	415	33	13	17	9	4

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



March 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 ****								**** EFFECTIVE SPACE ****											
Mar 2017	828	258	357	13105	14548	16539	31087	605	258	53	916	13105	16539	30560	1500	880	0	29.7	
Apr 2017	835	286	269	13034	14424	16691	31115	609	286	-40	855	13034	16691	30580	1500	998	0	30.1	
May 2017	893	253	179	12393	13718	16984	30702	662	253	-150	765	12393	16984	30141	1500	901	0	32.3	
Jun 2017	701	271	276	10362	11610	16916	28526	452	271	-86	638	10362	16916	27916	1500	821	0	35.1	
Jul 2017	399	34	389	8138	8961	16761	25722	134	17	-18	134	8138	16761	25033	1500	790	0	35.6	
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****											
Aug 2017	285	15	457	8101	8858	16286	25144	285	15	457	757	8101	16286	25144	1500	726	0	35.5	
Sep 2017	267	74	479	8806	9625	15623	25249	267	74	479	820	8806	15623	25249	2270	791	0	35.1	
Oct 2017	310	147	480	9244	10182	15416	25598	310	147	480	938	9244	15416	25598	3040	608	0	34.8	
Nov 2017	362	172	471	9306	10311	15383	25694	362	172	471	1005	9306	15383	25694	3810	767	0	34.6	
Dec 2017	432	188	470	9412	10501	15498	25999	432	188	470	1090	9412	15498	25999	4580	728	0	34.3	
Jan 2018	534	247	473	9623	10876	15504	26381	534	247	473	1253	9623	15504	26381	5350	721	0	34.0	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2018	534	247	473	9623	10876	15504	26381	160	226	212	597	9623	15504	25725	5350	721	0	34.0	
Feb 2018	630	275	478	9882	11267	15445	26711	256	256	217	729	9882	15445	26056	1500	612	0	33.8	
Mar 2018	710	289	473	10079	11551	15349	26899	335	272	210	817	10079	15349	26244	1500	1040	0	33.5	
Apr 2018	747	296	420	10154	11616	15662	27278	370	279	150	799	10154	15662	26615	1500	1100	0	33.4	
May 2018	752	276	331	9921	11280	16117	27397	368	256	39	664	9921	16117	26702	1500	971	0	34.6	
Jun 2018	703	203	329	8506	9741	16483	26224	312	174	-2	483	8506	16483	25472	1500	868	0	36.1	
Jul 2018	516	49	431	6960	7956	16748	24704	110	-1	45	154	6960	16748	23861	1500	828	0	36.2	
**** CREDITABLE SPACE ****								**** CREDITABLE SPACE ****											
Aug 2018	425	50	446	6789	7710	16843	24552	425	50	446	921	6789	16843	24552	1500	771	0	35.9	
Sep 2018	453	105	468	7029	8055	16793	24848	453	105	468	1026	7029	16793	24848	2270	700	0	35.6	
Oct 2018	507	167	468	7154	8296	16864	25160	507	167	468	1142	7154	16864	25160	3040	493	0	35.3	
Nov 2018	555	196	456	7260	8467	16721	25188	555	196	456	1207	7260	16721	25188	3810	638	0	35.2	
Dec 2018	604	202	453	7415	8674	16713	25387	604	202	453	1259	7415	16713	25387	4580	596	0	35.0	
Jan 2019	670	239	456	7683	9049	16594	25643	670	239	456	1366	7683	16594	25643	5350	726	0	34.8	
**** EFFECTIVE SPACE ****								**** EFFECTIVE SPACE ****											
Jan 2019	670	239	456	7683	9049	16594	25643	380	239	200	819	7683	16594	25096	5350	726	0	34.8	
Feb 2019	731	268	462	8293	9753	16219	25973	440	268	205	912	8293	16219	25424	1500	613	0	34.6	

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