

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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The operation of Lake Powell and Lake Mead in this February 2019 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 draft 2019 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2018 24-Month Study projections of the January 1, 2019, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2019.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2019 will be governed by the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 maf and the potential for an April adjustment to equalization or balancing releases in April 2019. This February 2019 24-Month Study indicates that, consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is projected to occur and the contents of Lake Powell and Lake Mead will be balanced by the end of the water year, but not more than 9.0 maf and not less than 8.23 maf shall be released from Lake Powell. Based on the most probable inflow forecast, this February 24-Month Study projects a balancing release of 8.91 maf in water year 2019.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2019.

The Interim Guidelines are available for download at: <https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>

The draft 2019 AOP is available for download at: https://www.usbr.gov/lc/region/g4000/AOP2019/AOP19_draft.pdf

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows: Observed unregulated inflow into Lake Powell for the month of January was 0.210 maf or 58 percent of the 30-year average from 1981 to 2010. The February unregulated inflow forecast for Lake Powell is 0.250 maf or 64 percent of the 30-year average. The 2019 April through July unregulated inflow forecast is 5.300 maf or 74 percent of average.

In this study, the calendar year 2019 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 0.886 maf. The calendar year 2019 diversion for the Central Arizona Project (CAP) is forecasted to be 1.559 maf. Consumptive use for Nevada above Hoover (SNWP Use) is forecasted to be 0.291 maf for calendar year 2019.

Due to changing Lake Mead elevations, Hoover's generator capacity is adjusted based on estimated effective capacity and plant availability. The estimated effective capacity is based on projected Lake Mead elevations. Unit capacity tests will be performed as the lake elevation changes. This study reflects these changes in the projections.

Hoover, Davis, and Parker historical gross energy figures come from PO&M reports provided by the Lower Colorado Region's Power Management Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Eric Carty at (702) 293-8129.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir



	Regulated Inflow	Evap Losses	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Feb 2018	38	0	72	0	72	6472.86	131
H Mar 2018	58	0	16	56	71	6469.78	117
I Apr 2018	101	1	83	4	87	6472.76	130
S May 2018	354	2	100	123	223	6494.84	260
T Jun 2018	404	2	101	269	370	6499.18	292
O Jul 2018	138	3	92	8	100	6503.79	327
R Aug 2018	50	2	75	1	76	6500.10	299
I Sep 2018	30	2	7	58	65	6495.11	262
WY 2018	1397	15	856	528	1382		
C Oct 2018	42	1	45	20	65	6491.62	238
A Nov 2018	38	1	60	0	60	6488.29	216
L Dec 2018	30	1	61	1	61	6483.19	184
* Jan 2019	28	1	61	0	61	6476.81	150
Feb 2019	26	0	56	0	56	6470.30	120
Mar 2019	43	0	44	0	44	6470.05	119
Apr 2019	60	1	60	0	60	6470.03	119
May 2019	100	1	61	0	61	6478.04	157
Jun 2019	220	2	71	0	71	6500.54	303
Jul 2019	120	3	81	0	81	6505.19	339
Aug 2019	57	2	92	0	92	6500.37	302
Sep 2019	37	2	38	67	105	6490.59	232
WY 2019	801	14	731	87	818		
Oct 2019	42	1	55	0	55	6488.39	218
Nov 2019	39	1	54	0	54	6486.13	203
Dec 2019	32	1	55	0	55	6482.17	179
Jan 2020	30	1	55	0	55	6477.43	153
Feb 2020	28	0	52	0	52	6472.24	129
Mar 2020	53	0	57	0	57	6471.14	124
Apr 2020	85	1	90	0	90	6469.94	119
May 2020	164	1	98	27	125	6478.02	156
Jun 2020	299	2	102	43	145	6501.26	309
Jul 2020	178	3	102	63	165	6502.54	318
Aug 2020	77	2	108	60	168	6489.44	225
Sep 2020	46	2	20	74	94	6481.45	175
WY 2020	1073	14	847	268	1116		
Oct 2020	49	1	49	0	49	6481.18	173
Nov 2020	42	1	48	0	48	6480.12	167
Dec 2020	32	1	49	0	49	6476.67	150
Jan 2021	30	0	49	0	49	6472.57	130

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
H Mar 2018	86	99	3	106	0	106	128	6025.65	3184	178
I Apr 2018	121	108	5	101	0	101	128	6025.69	3186	277
S May 2018	422	290	8	163	6	169	133	6028.57	3294	572
T Jun 2018	435	401	11	125	0	125	143	6035.09	3550	278
O Jul 2018	140	102	14	120	0	120	142	6034.33	3519	141
R Aug 2018	42	68	13	124	0	124	139	6032.67	3453	142
I Sep 2018	17	52	11	119	0	119	136	6030.75	3378	132
WY 2018	1594	1580	82	1608	7	1616				2638
C Oct 2018	54	77	7	99	0	99	135	6030.03	3350	131
A Nov 2018	40	61	4	93	0	93	133	6029.15	3316	121
L Dec 2018	29	60	2	124	0	124	131	6027.49	3253	153
* Jan 2019	34	68	2	124	0	124	129	6026.01	3198	154
Feb 2019	36	66	2	111	0	111	127	6024.77	3152	129
Mar 2019	80	81	3	77	0	77	127	6024.80	3153	132
Apr 2019	95	95	5	48	0	48	129	6025.90	3193	218
May 2019	145	106	8	49	0	49	130	6027.17	3241	489
Jun 2019	250	101	10	162	0	162	128	6025.36	3173	612
Jul 2019	140	101	13	92	0	92	128	6025.24	3169	162
Aug 2019	65	100	12	105	0	105	127	6024.81	3153	125
Sep 2019	40	108	11	101	0	101	127	6024.71	3150	113
WY 2019	1008	1024	79	1183	0	1183				2539
Oct 2019	48	61	7	105	0	105	125	6023.39	3101	129
Nov 2019	46	61	3	63	0	63	125	6023.25	3096	91
Dec 2019	35	58	2	71	0	71	124	6022.88	3082	96
Jan 2020	40	65	2	71	0	71	124	6022.69	3076	96
Feb 2020	45	69	2	66	0	66	124	6022.70	3076	94
Mar 2020	102	107	3	51	0	51	126	6024.09	3127	128
Apr 2020	134	138	5	48	0	48	129	6026.31	3209	263
May 2020	245	206	8	73	0	73	134	6029.51	3330	605
Jun 2020	390	235	11	248	0	248	133	6028.95	3309	668
Jul 2020	210	198	14	123	0	123	135	6030.47	3367	223
Aug 2020	89	180	13	123	0	123	137	6031.56	3410	148
Sep 2020	55	104	11	119	0	119	136	6030.90	3384	138
WY 2020	1439	1482	80	1159	0	1159				2677
Oct 2020	59	60	7	123	0	123	133	6029.14	3316	155
Nov 2020	51	57	3	95	0	95	132	6028.07	3275	127
Dec 2020	35	52	2	111	0	111	129	6026.53	3217	136
Jan 2021	40	59	2	111	0	111	127	6025.16	3166	136

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	4	6	9311.50	72
H Mar 2018	5	6	9310.51	71
I Apr 2018	8	7	9311.18	72
S May 2018	24	12	9318.33	84
T Jun 2018	13	15	9317.29	82
O Jul 2018	5	14	9311.71	73
R Aug 2018	3	13	9305.51	63
I Sep 2018	3	8	9301.71	58
WY 2018	88	108		
C Oct 2018	5	3	9302.60	59
A Nov 2018	3	3	9302.61	59
L Dec 2018	4	3	9302.74	59
* Jan 2019	4	3	9302.92	59
Feb 2019	2	3	9302.36	58
Mar 2019	3	3	9302.29	58
Apr 2019	5	3	9303.69	60
May 2019	21	10	9310.89	71
Jun 2019	40	15	9325.00	96
Jul 2019	15	18	9323.43	93
Aug 2019	8	15	9319.66	86
Sep 2019	6	13	9315.69	79
WY 2019	115	93		
Oct 2019	6	6	9315.59	79
Nov 2019	5	5	9315.44	79
Dec 2019	5	5	9315.14	78
Jan 2020	4	5	9314.64	78
Feb 2020	4	5	9313.99	76
Mar 2020	4	8	9311.84	73
Apr 2020	9	8	9312.30	74
May 2020	28	30	9311.25	72
Jun 2020	42	30	9318.15	84
Jul 2020	20	10	9323.66	94
Aug 2020	10	8	9324.87	96
Sep 2020	7	8	9324.54	95
WY 2020	144	128		
Oct 2020	7	6	9324.88	96
Nov 2020	5	5	9324.94	96
Dec 2020	5	5	9324.77	96
Jan 2021	4	5	9324.33	95

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	23	25	0	32	0	32	7485.54	547
H Mar 2018	28	29	0	43	0	43	7483.73	534
I Apr 2018	48	47	1	82	0	82	7478.94	498
S May 2018	112	100	1	85	0	85	7480.90	513
T Jun 2018	56	57	1	98	0	98	7475.06	471
O Jul 2018	21	31	1	101	0	101	7464.43	399
R Aug 2018	19	28	1	93	0	93	7453.77	334
I Sep 2018	12	17	1	30	39	68	7444.44	282
WY 2018	433	453	7	856	39	895		
C Oct 2018	23	22	0	46	11	56	7437.59	248
A Nov 2018	22	21	0	19	0	19	7438.08	250
L Dec 2018	20	19	0	21	0	21	7437.82	249
* Jan 2019	20	20	0	17	0	17	7438.40	252
Feb 2019	14	15	0	25	0	25	7436.35	242
Mar 2019	26	26	0	27	0	27	7436.15	241
Apr 2019	57	55	0	41	0	41	7438.99	255
May 2019	163	152	1	103	0	103	7448.31	303
Jun 2019	240	215	1	37	0	37	7476.35	480
Jul 2019	90	93	1	66	0	66	7479.88	505
Aug 2019	46	53	1	75	0	75	7476.63	482
Sep 2019	35	42	1	66	0	66	7473.02	456
WY 2019	755	733	6	542	11	553		
Oct 2019	36	36	0	42	0	42	7472.18	451
Nov 2019	30	31	0	13	0	13	7474.75	468
Dec 2019	26	26	0	14	0	14	7476.52	481
Jan 2020	24	25	0	13	0	13	7478.15	493
Feb 2020	22	23	0	13	0	13	7479.64	503
Mar 2020	36	40	0	0	14	14	7483.02	528
Apr 2020	77	76	1	0	35	35	7488.42	569
May 2020	221	223	1	6	189	195	7491.80	595
Jun 2020	261	249	1	47	0	47	7515.68	796
Jul 2020	117	107	2	90	0	90	7517.36	811
Aug 2020	63	61	1	99	0	99	7512.99	772
Sep 2020	38	39	1	92	0	92	7506.68	717
WY 2020	952	936	9	429	238	667		
Oct 2020	38	38	1	60	0	60	7503.98	694
Nov 2020	31	31	0	40	0	40	7502.93	686
Dec 2020	26	26	0	109	0	109	7492.63	602
Jan 2021	24	25	0	79	0	79	7485.63	548

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	24	32	1	33	34	0	34	7149.19	108
H Mar 2018	29	43	1	44	49	0	49	7143.05	104
I Apr 2018	54	82	6	87	79	0	79	7154.30	112
S May 2018	121	85	8	94	94	0	94	7153.76	112
T Jun 2018	57	98	2	99	99	0	99	7154.16	112
O Jul 2018	22	101	1	102	101	0	101	7155.49	113
R Aug 2018	19	93	0	93	94	0	94	7153.96	112
I Sep 2018	14	68	2	70	84	0	84	7135.77	98
WY 2018	460	895	27	922	935	0	937		
C Oct 2018	24	56	1	57	56	0	56	7136.92	99
A Nov 2018	23	19	1	20	13	0	15	7143.47	104
L Dec 2018	21	21	1	22	18	0	18	7147.95	107
* Jan 2019	21	17	1	17	18	0	18	7147.00	107
Feb 2019	15	25	1	26	20	0	20	7153.73	112
Mar 2019	28	27	2	29	29	0	29	7153.73	112
Apr 2019	65	41	8	49	49	0	49	7153.73	112
May 2019	175	103	12	115	115	0	115	7153.73	112
Jun 2019	255	37	15	52	52	0	52	7153.73	112
Jul 2019	95	66	5	71	71	0	71	7153.73	112
Aug 2019	49	75	3	78	78	0	78	7153.73	112
Sep 2019	37	66	2	68	68	0	68	7153.73	112
WY 2019	807	553	52	605	589	0	591		
Oct 2019	38	42	2	44	44	0	44	7153.73	112
Nov 2019	32	13	2	15	15	0	15	7153.73	112
Dec 2019	28	14	2	16	16	0	16	7153.73	112
Jan 2020	27	13	2	16	16	0	16	7153.73	112
Feb 2020	25	13	3	15	15	0	15	7153.73	112
Mar 2020	40	14	4	18	18	0	18	7153.73	112
Apr 2020	88	35	11	46	46	0	46	7153.73	112
May 2020	247	195	26	221	221	0	221	7153.73	112
Jun 2020	281	47	20	67	67	0	67	7153.73	112
Jul 2020	123	90	6	96	96	0	96	7153.73	112
Aug 2020	67	99	3	103	103	0	103	7153.73	112
Sep 2020	41	92	3	95	95	0	95	7153.73	112
WY 2020	1037	667	84	751	751	0	751		
Oct 2020	41	60	3	62	62	0	62	7153.73	112
Nov 2020	33	40	2	42	42	0	42	7153.73	112
Dec 2020	28	109	2	112	112	0	112	7153.73	112
Jan 2021	27	79	2	81	81	0	81	7153.73	112

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 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)
* Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	34
H Mar 2018	33	49	4	52	53	0	53	6747.97	16	13	38
I Apr 2018	60	79	6	84	84	0	84	6749.35	16	53	28
S May 2018	129	94	9	102	102	0	102	6749.41	16	62	39
T Jun 2018	61	99	3	102	102	0	102	6750.48	16	63	42
O Jul 2018	24	101	2	103	103	0	103	6750.59	16	64	41
R Aug 2018	21	94	2	96	98	0	98	6744.83	15	65	36
I Sep 2018	15	84	1	85	87	0	87	6737.22	13	59	33
WY 2018	505	937	45	982	959	26	985			438	553
C Oct 2018	27	56	3	59	55	0	55	6751.87	17	33	24
A Nov 2018	26	15	4	19	21	0	21	6743.11	14	1	19
L Dec 2018	25	18	4	22	21	0	22	6745.32	15	0	20
* Jan 2019	25	18	4	22	19	3	22	6746.57	15	1	20
Feb 2019	18	20	3	23	22	0	22	6753.04	17	0	22
Mar 2019	33	29	5	34	34	0	34	6753.04	17	5	29
Apr 2019	74	49	9	58	58	0	58	6753.04	17	42	16
May 2019	200	115	25	140	134	6	140	6753.04	17	62	78
Jun 2019	280	52	25	77	77	0	77	6753.04	17	61	16
Jul 2019	106	71	11	82	82	0	82	6753.04	17	65	17
Aug 2019	53	78	4	82	82	0	82	6753.04	17	65	17
Sep 2019	42	68	5	73	73	0	73	6753.04	17	55	18
WY 2019	908	591	101	693	679	9	688			390	297
Oct 2019	44	44	5	49	49	0	49	6753.04	17	30	19
Nov 2019	37	15	4	19	19	0	19	6753.04	17	0	19
Dec 2019	32	16	5	20	20	0	20	6753.04	17	0	20
Jan 2020	31	16	5	20	20	0	20	6753.04	17	0	20
Feb 2020	29	15	4	19	0	19	19	6753.04	17	0	19
Mar 2020	46	18	6	25	25	0	25	6753.04	17	5	20
Apr 2020	101	46	12	58	58	0	58	6753.04	17	42	16
May 2020	281	221	34	256	134	121	256	6753.04	17	62	194
Jun 2020	315	67	34	101	101	0	101	6753.04	17	61	40
Jul 2020	138	96	14	111	111	0	111	6753.04	17	65	46
Aug 2020	75	103	8	111	111	0	111	6753.04	17	65	46
Sep 2020	47	95	6	101	101	0	101	6753.04	17	55	46
WY 2020	1175	751	139	890	750	140	890			385	505
Oct 2020	47	62	6	69	69	0	69	6753.04	17	30	39
Nov 2020	38	42	5	47	47	0	47	6753.04	17	0	47
Dec 2020	32	112	5	116	116	0	116	6753.04	17	0	116
Jan 2021	31	81	5	86	86	0	86	6753.04	17	0	86

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	3	0	7642.57	70
H Mar 2018	4	0	7644.11	73
I Apr 2018	15	3	7649.29	85
S May 2018	30	31	7648.91	84
T Jun 2018	14	35	7639.22	63
O Jul 2018	8	35	7624.15	35
R Aug 2018	5	19	7613.87	22
I Sep 2018	3	4	7613.06	21
WY 2018	102	153		
C Oct 2018	9	3	7617.56	26
A Nov 2018	5	0	7621.25	31
L Dec 2018	3	0	7623.31	34
* Jan 2019	4	0	7625.50	37
Feb 2019	3	0	7627.11	40
Mar 2019	4	0	7629.16	43
Apr 2019	12	0	7635.32	55
May 2019	48	31	7643.41	72
Jun 2019	56	43	7648.95	84
Jul 2019	19	42	7638.64	61
Aug 2019	14	38	7625.54	37
Sep 2019	13	30	7612.86	20
WY 2019	190	187		
Oct 2019	13	17	7608.64	16
Nov 2019	8	2	7613.92	22
Dec 2019	6	2	7617.66	26
Jan 2020	5	2	7620.35	30
Feb 2020	5	2	7622.44	33
Mar 2020	9	3	7626.32	39
Apr 2020	23	3	7637.51	59
May 2020	71	31	7654.85	99
Jun 2020	70	44	7664.61	124
Jul 2020	29	41	7659.71	111
Aug 2020	20	38	7652.47	93
Sep 2020	17	29	7647.41	81
WY 2020	277	214		
Oct 2020	16	16	7646.98	80
Nov 2020	9	2	7649.60	86
Dec 2020	6	2	7651.43	90
Jan 2021	5	2	7652.85	94

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 24-Month Study

Most Probable Inflow*
Navajo Reservoir



	Mod Unreg	Azetea	Reg	Evap	NIIP	Total	Reservoir Elev	Live	Farmington
	Inflow	Tunnel Div	Inflow	Losses	Diversion	Release	End of Month	Storage	Flow
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Feb 2018	13	0	11	1	1	17	6051.73	1246	33
H Mar 2018	24	2	19	2	6	21	6050.92	1236	30
I Apr 2018	70	13	46	2	20	38	6049.73	1222	42
S May 2018	88	16	71	3	36	32	6049.80	1223	69
T Jun 2018	6	3	24	4	42	42	6044.23	1159	49
O Jul 2018	-9	0	18	4	42	51	6036.94	1080	53
R Aug 2018	-7	0	7	3	42	51	6028.27	991	48
I Sep 2018	2	0	3	2	27	46	6020.80	919	42
WY 2018	268	36	283	24	224	405			540
C Oct 2018	23	1	17	1	7	31	6018.35	897	40
A Nov 2018	15	0	10	1	0	18	6017.43	888	34
L Dec 2018	13	0	9	0	0	18	6016.39	879	30
* Jan 2019	13	0	10	0	0	19	6015.33	869	31
Feb 2019	15	0	12	1	0	19	6014.48	861	25
Mar 2019	40	0	36	1	5	22	6015.41	870	33
Apr 2019	78	1	65	2	21	23	6017.53	889	48
May 2019	171	7	147	3	36	45	6024.36	953	144
Jun 2019	150	21	116	3	52	30	6027.51	984	152
Jul 2019	31	18	36	3	57	34	6021.52	926	78
Aug 2019	42	1	64	3	48	36	6019.19	904	62
Sep 2019	34	2	49	2	26	23	6018.89	902	56
WY 2019	625	51	571	20	251	318			732
Oct 2019	40	1	43	1	10	23	6019.93	911	51
Nov 2019	31	1	25	1	0	21	6020.28	914	39
Dec 2019	25	0	20	0	0	22	6020.11	913	37
Jan 2020	22	0	18	0	0	22	6019.72	909	35
Feb 2020	30	0	27	1	0	20	6020.40	916	33
Mar 2020	92	0	86	1	6	22	6026.43	973	44
Apr 2020	170	9	141	2	22	21	6035.91	1069	74
May 2020	277	21	216	3	36	22	6049.91	1225	168
Jun 2020	224	37	161	4	53	21	6056.81	1308	172
Jul 2020	66	29	50	4	57	22	6054.13	1275	89
Aug 2020	45	5	58	3	48	26	6052.53	1256	65
Sep 2020	43	2	53	3	26	23	6052.68	1257	55
WY 2020	1066	104	899	24	257	262			861
Oct 2020	47	2	46	2	0	22	6054.55	1280	50
Nov 2020	34	2	25	1	0	21	6054.84	1284	39
Dec 2020	25	0	20	1	0	22	6054.69	1282	37
Jan 2021	22	0	18	1	0	22	6054.38	1278	35

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 24-Month Study

Most Probable Inflow*

Lake Powell



	Unreg	Regulated	Evap	PowerPlant	Bypass	Total	Reservoir Elev	Bank	EOM	Lees
	Inflow	Inflow	Losses	Release	Release	Release	End of Month	Storage	Storage	Ferry Gage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	750
H Mar 2018	332	395	16	800	0	800	3612.23	5090	12956	835
I Apr 2018	382	419	25	705	0	705	3609.39	5067	12669	738
S May 2018	1214	968	29	705	0	705	3611.54	5085	12886	730
T Jun 2018	883	635	45	760	0	760	3609.98	5072	12728	781
O Jul 2018	123	252	53	860	0	860	3603.80	5023	12116	877
R Aug 2018	11	260	50	900	0	900	3597.12	4972	11477	911
I Sep 2018	1	230	45	670	0	670	3592.28	4936	11028	690
WY 2018	4612	5459	386	9000	0	9000				9158
C Oct 2018	351	477	30	625	0	625	3590.46	4923	10862	650
A Nov 2018	254	307	29	585	77	662	3586.50	4894	10507	668
L Dec 2018	228	322	22	740	0	740	3581.85	4862	10099	741
* Jan 2019	212	303	7	804	0	804	3576.34	4824	9629	808
Feb 2019	250	333	7	735	0	735	3571.77	4794	9251	739
Mar 2019	415	399	11	790	0	790	3567.15	4764	8878	795
Apr 2019	650	554	18	690	0	690	3565.34	4753	8736	698
May 2019	1550	1310	21	690	0	690	3572.25	4797	9290	696
Jun 2019	2250	1912	36	765	0	765	3584.38	4879	10319	773
Jul 2019	850	856	45	860	0	860	3583.86	4876	10273	879
Aug 2019	370	482	44	900	0	900	3578.90	4841	9846	918
Sep 2019	320	430	40	648	0	648	3576.08	4822	9607	658
WY 2019	7701	7684	309	8832	77	8909				9024
Oct 2019	438	494	27	480	0	480	3575.93	4821	9595	486
Nov 2019	439	428	26	500	0	500	3574.84	4814	9504	500
Dec 2019	363	383	21	600	0	600	3572.17	4796	9283	605
Jan 2020	361	380	6	720	0	720	3568.21	4771	8963	731
Feb 2020	393	395	6	640	0	640	3565.27	4752	8730	644
Mar 2020	665	528	11	675	0	675	3563.39	4740	8584	680
Apr 2020	1056	808	17	600	0	600	3565.66	4755	8761	608
May 2020	2343	1946	22	600	0	600	3580.55	4853	9987	606
Jun 2020	2666	2197	38	630	0	630	3596.32	4966	11402	638
Jul 2020	1091	1018	49	710	0	710	3598.86	4985	11641	729
Aug 2020	500	604	49	760	0	760	3596.84	4970	11451	778
Sep 2020	408	534	45	565	0	565	3596.08	4964	11380	576
WY 2020	10723	9714	319	7480	0	7480				7580
Oct 2020	512	574	31	640	0	640	3595.12	4957	11290	646
Nov 2020	473	515	30	640	0	640	3593.57	4945	11146	640
Dec 2020	363	519	24	720	0	720	3591.30	4929	10938	725
Jan 2021	361	486	7	860	0	860	3587.38	4901	10585	871

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
* Feb 2018	730	60	28	687	12.4	10	693	696	1088.21	10703
H Mar 2018	800	70	32	833	13.5	14	832	695	1088.11	10694
I Apr 2018	705	43	39	1015	17.1	21	1015	675	1084.49	10387
S May 2018	705	21	44	1055	17.1	27	1054	651	1080.00	10011
T Jun 2018	760	27	53	986	16.6	28	985	634	1076.81	9748
O Jul 2018	860	106	65	820	13.3	27	819	637	1077.43	9799
R Aug 2018	900	74	70	749	12.2	28	748	645	1078.88	9918
I Sep 2018	670	84	58	725	12.2	24	723	642	1078.29	9870
WY 2018	9000	690	541	9240		241	9237			
C Oct 2018	625	100	42	641	10.4	23	634	643	1078.52	9889
A Nov 2018	662	67	42	690	11.6	16	689	642	1078.32	9872
L Dec 2018	740	52	36	468	7.6	11	467	659	1081.46	10132
* Jan 2019	804	105	30	487	7.9	8	486	682	1085.75	10493
Feb 2019	735	93	28	683	12.3	11	683	689	1086.93	10593
Mar 2019	790	56	31	939	15.3	20	939	680	1085.33	10458
Apr 2019	690	48	39	1045	17.6	24	1045	657	1081.19	10110
May 2019	690	31	44	1005	16.3	34	1005	635	1077.09	9771
Jun 2019	765	12	52	927	15.6	33	927	621	1074.37	9550
Jul 2019	860	81	65	844	13.7	36	844	621	1074.33	9546
Aug 2019	900	112	69	788	12.8	34	788	628	1075.73	9660
Sep 2019	648	105	57	726	12.2	27	726	624	1075.08	9607
WY 2019	8909	863	535	9241		276	9231			
Oct 2019	480	69	41	478	7.8	28	478	625	1075.10	9609
Nov 2019	500	61	41	740	12.4	20	740	610	1072.30	9383
Dec 2019	600	50	35	662	10.8	16	662	606	1071.55	9323
Jan 2020	720	78	29	577	9.4	14	577	617	1073.63	9491
Feb 2020	640	93	27	664	11.5	17	664	618	1073.94	9515
Mar 2020	675	56	30	943	15.3	22	943	602	1070.85	9268
Apr 2020	600	48	36	1015	17.1	25	1015	576	1065.75	8865
May 2020	600	31	41	967	15.7	31	967	551	1060.78	8483
Jun 2020	630	12	48	964	16.2	31	964	527	1055.78	8106
Jul 2020	710	81	59	839	13.6	31	839	519	1054.04	7977
Aug 2020	760	112	63	772	12.6	28	772	519	1054.16	7986
Sep 2020	565	105	51	698	11.7	25	698	513	1052.83	7889
WY 2020	7480	796	502	9318		287	9318			
Oct 2020	640	69	38	473	7.7	25	473	523	1055.04	8052
Nov 2020	640	61	38	586	9.8	17	586	527	1055.80	8108
Dec 2020	720	50	33	551	9.0	14	551	538	1057.97	8270
Jan 2021	860	78	27	577	9.4	14	577	557	1061.92	8570

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 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)
*	Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
H	Mar 2018	833	-1	13	836	0	836	13.6	642.57	1687
I	Apr 2018	1015	-3	17	1001	0	1001	16.8	642.40	1682
S	May 2018	1055	-11	22	1001	0	1001	16.3	643.17	1703
T	Jun 2018	986	-21	26	909	0	909	15.3	644.29	1734
O	Jul 2018	820	-6	26	827	0	827	13.4	642.91	1696
R	Aug 2018	749	-13	23	730	0	730	11.9	642.29	1679
I	Sep 2018	725	-11	18	814	0	814	13.7	637.87	1561
WY 2018		9240	-103	198	8981	0	8981			
C	Oct 2018	641	-11	15	635	0	635	10.3	637.08	1540
A	Nov 2018	690	-28	11	610	0	610	10.3	638.62	1581
L	Dec 2018	468	-14	9	375	0	386	6.3	640.79	1639
*	Jan 2019	487	-29	10	418	0	418	6.8	641.89	1668
	Feb 2019	683	-15	10	655	0	655	11.8	642.00	1671
	Mar 2019	939	-17	13	895	0	895	14.6	642.50	1685
	Apr 2019	1045	-20	17	995	0	995	16.7	643.00	1699
	May 2019	1005	-12	22	970	0	970	15.8	643.00	1699
	Jun 2019	927	-15	25	886	0	886	14.9	643.00	1699
	Jul 2019	844	-15	25	830	0	830	13.5	642.00	1671
	Aug 2019	788	-12	23	753	0	753	12.3	642.00	1671
	Sep 2019	726	-12	18	749	0	749	12.6	640.01	1618
WY 2019		9241	-202	198	8772	0	8783			
	Oct 2019	478	-4	15	642	0	642	10.4	633.00	1434
	Nov 2019	740	-12	10	666	0	666	11.2	635.00	1486
	Dec 2019	662	-12	9	544	0	544	8.9	638.71	1583
	Jan 2020	577	-19	10	465	0	465	7.6	641.80	1666
	Feb 2020	664	-15	10	639	0	639	11.1	641.80	1666
	Mar 2020	943	-17	13	878	0	878	14.3	643.05	1700
	Apr 2020	1015	-20	17	980	0	980	16.5	643.00	1699
	May 2020	967	-12	22	932	0	932	15.2	643.00	1699
	Jun 2020	964	-15	25	923	0	923	15.5	643.00	1699
	Jul 2020	839	-15	25	825	0	825	13.4	642.00	1671
	Aug 2020	772	-12	23	737	0	737	12.0	642.00	1671
	Sep 2020	698	-12	18	721	0	721	12.1	640.01	1618
WY 2020		9318	-166	197	8954	0	8954			
	Oct 2020	473	-4	15	638	0	638	10.4	633.00	1434
	Nov 2020	586	-12	10	512	0	512	8.6	635.00	1486
	Dec 2020	551	-12	9	433	0	433	7.0	638.71	1583
	Jan 2021	577	-19	10	466	0	466	7.6	641.80	1666

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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)
*	Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
H	Mar 2018	836	-3	9	637	10.4	61	139	447.46	570	195	3.2
I	Apr 2018	1001	-8	11	735	12.4	75	168	447.13	564	175	2.9
S	May 2018	1001	10	13	697	11.3	87	178	448.51	590	124	2.0
T	Jun 2018	909	6	15	712	12.0	91	88	448.43	588	136	2.3
O	Jul 2018	827	20	17	656	10.7	101	72	448.00	580	133	2.2
R	Aug 2018	730	22	17	611	9.9	99	22	447.53	571	104	1.7
I	Sep 2018	814	9	15	512	8.6	95	164	448.95	598	94	1.6
WY 2018		8981	100	139	6479		910	1431			1504	
C	Oct 2018	635	23	12	394	6.4	86	176	448.12	582	68	1.1
A	Nov 2018	610	16	9	357	6.0	85	173	447.99	580	97	1.6
L	Dec 2018	386	26	7	218	3.5	70	143	446.53	552	105	1.7
*	Jan 2019	418	20	6	250	4.1	87	91	446.58	553	122	2.0
	Feb 2019	655	11	8	423	7.6	57	164	447.00	561	152	2.7
	Mar 2019	895	7	9	712	11.6	9	154	447.50	571	192	3.1
	Apr 2019	995	16	11	726	12.2	78	163	448.70	593	178	3.0
	May 2019	970	15	13	698	11.4	81	181	448.70	593	119	1.9
	Jun 2019	886	13	16	719	12.1	78	73	448.70	593	127	2.1
	Jul 2019	830	21	17	679	11.0	81	75	448.00	580	135	2.2
	Aug 2019	753	23	17	601	9.8	81	75	447.50	571	104	1.7
	Sep 2019	749	17	15	514	8.6	78	148	447.50	570	96	1.6
WY 2019		8783	207	140	6290		870	1615			1494	
	Oct 2019	642	23	12	469	7.6	35	143	447.50	571	65	1.1
	Nov 2019	666	16	9	395	6.6	110	163	447.50	571	99	1.7
	Dec 2019	544	18	7	331	5.4	111	129	446.50	552	109	1.8
	Jan 2020	465	21	6	261	4.2	109	106	446.50	552	121	2.0
	Feb 2020	639	11	8	433	7.5	103	100	446.50	552	147	2.6
	Mar 2020	878	7	9	707	11.5	32	124	446.70	555	185	3.0
	Apr 2020	980	16	11	724	12.2	89	124	448.70	593	171	2.9
	May 2020	932	15	13	693	11.3	92	137	448.70	593	115	1.9
	Jun 2020	923	13	16	718	12.1	89	100	448.70	593	124	2.1
	Jul 2020	825	21	17	675	11.0	92	62	448.00	580	131	2.1
	Aug 2020	737	23	17	593	9.6	92	56	447.50	571	101	1.6
	Sep 2020	721	17	15	512	8.6	89	112	447.50	570	93	1.6
WY 2020		8954	200	139	6510		1042	1355			1460	
	Oct 2020	638	23	12	485	7.9	45	112	447.50	571	63	1.0
	Nov 2020	512	16	9	357	6.0	44	112	447.50	571	95	1.6
	Dec 2020	433	18	7	314	5.1	45	100	446.50	552	105	1.7
	Jan 2021	466	21	6	260	4.2	110	106	446.50	552	121	2.0

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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
* Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
H Mar 2018	833	13.5	1088.11	10694	-9	442.23	1005.9	333.9	62	400.8
I Apr 2018	1015	17.1	1084.49	10387	-308	437.15	880.9	406.2	55	400.0
S May 2018	1055	17.1	1080.00	10011	-376	432.39	1385.9	412.1	88	390.8
T Jun 2018	986	16.6	1076.81	9748	-263	428.91	1552.0	378.6	100	384.1
O Jul 2018	820	13.3	1077.43	9799	51	432.34	1552.0	313.2	100	382.0
R Aug 2018	749	12.2	1078.88	9918	119	435.01	1562.0	287.4	100	383.8
I Sep 2018	725	12.2	1078.29	9870	-49	434.15	1562.0	278.7	100	384.7
WY 2018	9240							3614.3		
C Oct 2018	641	10.4	1078.52	9889	19	435.29	1406.1	247.8	87	386.7
A Nov 2018	690	11.6	1078.32	9872	-16	434.47	755.0	266.1	49	385.8
L Dec 2018	453	7.6	1081.46	10132	260	438.59	959.9	179.6	61	396.6
* Jan 2019	487	7.9	1085.75	10493	361	442.10	1006.1	183.4	63	376.8
Feb 2019	683	12.3	1086.93	10593	100	436.77	1119.0	272.1	70	398.6
Mar 2019	939	15.3	1085.33	10458	-135	437.01	1010.0	379.7	63	404.3
Apr 2019	1045	17.6	1081.19	10110	-348	433.93	970.9	423.1	63	404.9
May 2019	1005	16.3	1077.09	9771	-339	429.66	957.0	398.7	63	396.7
Jun 2019	927	15.6	1074.37	9550	-221	422.29	1512.0	354.5	100	382.5
Jul 2019	844	13.7	1074.33	9546	-4	421.25	1499.0	324.3	100	384.4
Aug 2019	788	12.8	1075.73	9660	114	422.25	1512.0	301.5	100	382.7
Sep 2019	726	12.2	1075.08	9607	-53	423.27	1499.0	276.9	100	381.6
WY 2019	9226							3607.7		
Oct 2019	478	7.8	1075.10	9609	2	426.53	1316.0	183.7	88	384.5
Nov 2019	740	12.4	1072.30	9383	-226	428.21	1208.9	288.0	81	389.4
Dec 2019	662	10.8	1071.55	9323	-60	425.13	1106.1	252.4	76	381.0
Jan 2020	577	9.4	1073.63	9491	167	424.19	1046.0	219.8	70	380.9
Feb 2020	664	11.5	1073.94	9515	24	424.51	1035.0	255.7	68	385.2
Mar 2020	943	15.3	1070.85	9268	-247	421.42	1180.0	362.7	81	384.7
Apr 2020	1015	17.1	1065.75	8865	-402	417.22	1115.0	386.5	78	380.7
May 2020	967	15.7	1060.78	8483	-382	409.95	1392.0	359.0	100	371.3
Jun 2020	964	16.2	1055.78	8106	-376	405.02	1358.0	348.0	100	361.0
Jul 2020	839	13.6	1054.04	7977	-129	402.00	1426.3	306.7	100	365.8
Aug 2020	772	12.6	1054.16	7986	9	401.53	1427.0	279.9	100	362.6
Sep 2020	698	11.7	1052.83	7889	-98	401.57	1419.5	251.3	100	360.2
WY 2020	9318							3493.8		
Oct 2020	473	7.7	1055.04	8052	163	405.56	1257.1	173.7	88	367.2
Nov 2020	586	9.8	1055.80	8108	56	410.07	1158.3	216.3	81	369.2
Dec 2020	551	9.0	1057.97	8270	162	410.20	1094.2	201.6	76	366.1
Jan 2021	577	9.4	1061.92	8570	300	411.62	1026.1	213.7	70	370.1

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 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
*	Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
H	Mar 2018	836	13.6	642.57	1687	-17	139.99	189.2	105.4	74	126.1
I	Apr 2018	1001	16.8	642.40	1682	-5	141.14	207.4	125.1	81	125.0
S	May 2018	1001	16.3	643.17	1703	21	141.89	204.0	126.2	80	126.1
T	Jun 2018	909	15.3	644.29	1734	31	143.00	255.0	115.0	100	126.6
O	Jul 2018	827	13.4	642.91	1696	-38	141.79	255.0	105.3	100	127.4
R	Aug 2018	730	11.9	642.29	1679	-17	141.02	255.0	92.7	100	127.1
I	Sep 2018	814	13.7	637.87	1561	-119	136.59	255.0	101.2	100	124.3
WY 2018		8981							1126.3		
C	Oct 2018	635	10.3	637.08	1540	-21	135.95	184.3	77.8	72	122.4
A	Nov 2018	610	10.3	638.62	1581	40	137.20	158.1	78.4	62	128.4
L	Dec 2018	375	6.3	640.79	1639	58	140.00	153.0	47.3	60	126.1
*	Jan 2019	418	6.8	641.89	1668	30	143.26	159.6	56.8	63	135.8
	Feb 2019	655	11.8	642.00	1671	3	139.37	153.0	82.2	81	125.6
	Mar 2019	895	14.6	642.50	1685	14	138.66	189.2	111.8	95	124.9
	Apr 2019	995	16.7	643.00	1699	14	138.42	207.4	124.0	100	124.7
	May 2019	970	15.8	643.00	1699	0	138.99	204.0	121.5	100	125.2
	Jun 2019	886	14.9	643.00	1699	0	139.29	255.0	111.2	100	125.5
	Jul 2019	830	13.5	642.00	1671	-27	139.29	255.0	104.2	100	125.5
	Aug 2019	753	12.3	642.00	1671	0	139.25	255.0	94.5	100	125.5
	Sep 2019	749	12.6	640.01	1618	-54	138.13	255.0	93.2	100	124.4
WY 2019		8772							1102.8		
	Oct 2019	642	10.4	633.00	1434	-183	134.46	174.4	77.8	82	121.1
	Nov 2019	666	11.2	635.00	1486	51	131.66	158.1	79.0	60	118.6
	Dec 2019	544	8.9	638.71	1583	97	135.48	153.0	66.4	79	122.1
	Jan 2020	465	7.6	641.80	1666	83	139.45	141.5	58.5	70	125.6
	Feb 2020	639	11.1	641.80	1666	0	139.49	207.6	80.3	74	125.7
	Mar 2020	878	14.3	643.05	1700	34	138.93	207.3	110.0	100	125.2
	Apr 2020	980	16.5	643.00	1699	-1	138.78	234.6	122.5	100	125.0
	May 2020	932	15.2	643.00	1699	0	139.19	255.0	116.9	100	125.4
	Jun 2020	923	15.5	643.00	1699	0	139.07	255.0	115.7	100	125.3
	Jul 2020	825	13.4	642.00	1671	-27	139.31	255.0	103.6	100	125.5
	Aug 2020	737	12.0	642.00	1671	0	139.35	255.0	92.6	100	125.5
	Sep 2020	721	12.1	640.01	1618	-54	138.31	255.0	89.8	100	124.6
WY 2020		8954							1113.0		
	Oct 2020	638	10.4	633.00	1434	-183	134.50	185.9	77.2	82	121.2
	Nov 2020	512	8.6	635.00	1486	51	132.74	153.0	61.2	60	119.6
	Dec 2020	433	7.0	638.71	1583	97	136.29	200.7	53.1	79	122.8
	Jan 2021	466	7.6	641.80	1666	83	139.45	213.9	58.5	70	125.6

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

February 2019 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
* Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
H Mar 2018	638	10.4	447.46	570	-20	81.79	102.6	44.9	85	70.4
I Apr 2018	735	12.4	447.13	564	-6	81.11	120.0	50.8	100	69.1
S May 2018	697	11.3	448.51	590	26	82.36	120.0	48.5	100	69.6
T Jun 2018	712	12.0	448.43	588	-1	80.33	120.0	49.7	100	69.9
O Jul 2018	656	10.7	448.00	580	-8	81.97	120.0	46.0	100	70.2
R Aug 2018	611	9.9	447.53	571	-9	79.27	120.0	42.7	100	69.9
I Sep 2018	512	8.6	448.95	598	27	83.02	120.0	35.9	100	70.1
WY 2018	6479							451.7		
C Oct 2018	394	6.4	448.12	582	-16	82.83	90.0	27.9	75	70.9
A Nov 2018	350	6.0	447.99	580	-3	82.25	93.0	26.1	78	74.4
L Dec 2018	218	3.5	446.53	552	-27	81.03	116.1	12.9	97	59.1
* Jan 2019	250	4.1	446.58	553	1	82.75	117.1	17.0	98	68.2
Feb 2019	423	7.6	447.00	561	8	75.49	92.1	27.6	77	65.4
Mar 2019	712	11.6	447.50	571	9	74.93	113.2	46.8	94	65.7
Apr 2019	726	12.2	448.70	593	23	75.47	120.0	48.0	100	66.2
May 2019	698	11.4	448.70	593	0	76.05	120.0	46.4	100	66.5
Jun 2019	719	12.1	448.70	593	0	76.05	120.0	47.9	100	66.6
Jul 2019	679	11.0	448.00	580	-13	75.71	120.0	44.9	100	66.2
Aug 2019	601	9.8	447.50	571	-9	75.13	120.0	39.4	100	65.5
Sep 2019	514	8.6	447.50	570	0	74.89	120.0	33.4	100	65.0
WY 2019	6283							418.3		
Oct 2019	469	7.6	447.50	571	0	76.29	90.0	30.9	75	66.0
Nov 2019	395	6.6	447.50	571	0	76.14	93.0	25.8	78	65.3
Dec 2019	331	5.4	446.50	552	-19	74.65	114.2	21.0	95	63.4
Jan 2020	261	4.2	446.50	552	0	75.07	94.8	16.3	79	62.7
Feb 2020	433	7.5	446.50	552	0	75.16	93.1	28.2	78	65.1
Mar 2020	707	11.5	446.70	555	4	74.01	120.0	45.9	100	64.9
Apr 2020	724	12.2	448.70	593	38	75.08	120.0	47.7	100	65.9
May 2020	693	11.3	448.70	593	0	76.05	120.0	46.1	100	66.5
Jun 2020	718	12.1	448.70	593	0	76.05	120.0	47.8	100	66.6
Jul 2020	675	11.0	448.00	580	-13	75.71	120.0	44.7	100	66.1
Aug 2020	593	9.6	447.50	571	-9	75.13	120.0	38.8	100	65.4
Sep 2020	512	8.6	447.50	570	0	74.89	120.0	33.3	100	65.0
WY 2020	6510							426.4		
Oct 2020	485	7.9	447.50	571	0	76.29	90.0	32.0	75	66.1
Nov 2020	357	6.0	447.50	571	0	76.19	92.0	23.2	77	65.0
Dec 2020	314	5.1	446.50	552	-19	74.86	109.4	19.9	91	63.3
Jan 2021	260	4.2	446.50	552	0	75.07	94.8	16.3	79	62.7

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 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
* Feb 2018	335	60	9	12	3	5
H Mar 2018	364	41	12	16	9	1
Winter 2018	2013	334	107	133	71	31
I Apr 2018	318	39	23	27	16	5
S May 2018	318	63	23	33	20	7
T Jun 2018	343	50	27	34	20	8
O Jul 2018	384	48	27	36	20	8
R Aug 2018	393	50	24	33	19	7
I Sep 2018	288	47	8	29	16	1
Summer 2018	2045	297	133	193	111	36
C Oct 2018	268	39	11	19	9	4
A Nov 2018	248	36	5	4	2	5
L Dec 2018	313	47	5	6	2	5
* Jan 2019	335	47	4	6	1	4
Feb 2019	275	41	6	7	4	4
Mar 2019	293	28	7	10	6	3
Winter 2019	1731	237	37	52	24	24
Apr 2019	254	17	10	18	10	4
May 2019	255	18	26	41	23	4
Jun 2019	288	59	10	19	13	6
Jul 2019	328	34	19	26	14	8
Aug 2019	340	38	22	28	14	9
Sep 2019	244	37	19	25	13	3
Summer 2019	1709	203	106	157	88	34
Oct 2019	180	38	12	16	9	5
Nov 2019	187	23	4	5	3	4
Dec 2019	224	26	4	6	4	4
Jan 2020	267	26	4	6	4	4
Feb 2020	234	24	4	5	0	4
Mar 2020	246	19	0	7	4	4
Winter 2020	1338	155	27	44	23	25
Apr 2020	219	17	0	17	10	6
May 2020	224	27	2	80	23	7
Jun 2020	242	91	14	24	17	8
Jul 2020	278	45	28	35	19	10
Aug 2020	298	45	31	37	19	10
Sep 2020	222	44	29	34	17	2
Summer 2020	1261	225	76	192	89	40
Oct 2020	251	45	18	23	12	4
Nov 2020	249	35	12	15	8	4
Dec 2020	279	40	33	40	20	4
Jan 2021	333	40	23	29	15	3

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



February 2019 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	BOM Space Total	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	KAF	
**** PREDICTED SPACE ****																			
Feb 2019	746	578	827	14693	16844	16884	33727	208	291	240	739	14693	16884	32315	1500	683	0	26.6	
Mar 2019	822	588	835	15071	17316	16784	34099	283	302	247	832	15071	16784	32687	1500	939	0	26.2	
Apr 2019	822	589	826	15444	17680	16919	34600	279	303	232	814	15444	16919	33177	1500	1045	0	25.8	
May 2019	781	575	807	15586	17749	17267	35016	232	287	190	709	15586	17267	33562	1500	1005	0	26.2	
Jun 2019	696	526	743	15032	16997	17606	34603	136	226	88	450	15032	17606	33088	1500	927	0	27.3	
Jul 2019	618	350	712	14003	15683	17827	33509	48	24	2	74	14003	17827	31903	1500	844	0	27.2	
**** CREDITABLE SPACE ****																			
Aug 2019	586	324	770	14049	15728	17831	33559	586	324	770	1680	14049	17831	33559	1500	788	0	26.8	
Sep 2019	639	348	792	14476	16255	17717	33971	639	348	792	1778	14476	17717	33971	2270	726	0	26.4	
Oct 2019	712	373	794	14715	16595	17770	34364	712	373	794	1880	14715	17770	34364	3040	478	0	26.1	
Nov 2019	775	379	785	14727	16666	17768	34434	775	379	785	1939	14727	17768	34434	3810	740	0	25.8	
Dec 2019	795	361	782	14818	16756	17994	34749	795	361	782	1938	14818	17994	34749	4580	662	0	25.6	
Jan 2020	833	349	783	15039	17003	18054	35057	833	349	783	1964	15039	18054	35057	5350	577	0	25.5	
**** EFFECTIVE SPACE ****																			
Jan 2020	833	349	783	15039	17003	18054	35057	487	349	551	1386	15039	18054	34479	5350	577	0	25.5	
Feb 2020	865	337	787	15359	17348	17886	35234	517	337	554	1408	15359	17886	34654	1500	664	0	25.3	
Mar 2020	889	326	780	15592	17588	17862	35450	539	326	547	1412	15592	17862	34866	1500	943	0	25.1	
Apr 2020	843	301	723	15738	17606	18109	35715	488	301	482	1271	15738	18109	35119	1500	1015	0	25.1	
May 2020	766	260	627	15561	17215	18512	35727	402	260	363	1025	15561	18512	35099	1500	967	0	26.3	
Jun 2020	607	234	471	14335	15648	18894	34543	229	234	168	632	14335	18894	33861	1500	964	0	27.7	
Jul 2020	477	34	388	12920	13819	19271	33089	87	27	28	142	12920	19271	32333	1500	839	0	27.9	
**** CREDITABLE SPACE ****																			
Aug 2020	408	18	421	12681	13529	19400	32928	408	18	421	848	12681	19400	32928	1500	772	0	27.6	
Sep 2020	460	57	440	12871	13829	19391	33219	460	57	440	957	12871	19391	33219	2270	698	0	27.2	
Oct 2020	535	112	439	12942	14028	19488	33516	535	112	439	1086	12942	19488	33516	3040	473	0	27.0	
Nov 2020	605	135	416	13032	14188	19325	33513	605	135	416	1156	13032	19325	33513	3810	586	0	26.9	
Dec 2020	651	144	412	13176	14383	19269	33652	651	144	412	1208	13176	19269	33652	4580	551	0	26.8	
Jan 2021	727	228	414	13384	14753	19107	33860	727	228	414	1369	13384	19107	33860	5350	577	0	26.7	
**** EFFECTIVE SPACE ****																			
Jan 2021	727	228	414	13384	14753	19107	33860	351	189	-21	519	13384	19107	33010	5350	577	0	26.7	

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