

To: All Annual Operating Plan Recipients

From: Lower Colorado Region
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In addition to the October 2018 24-Month Study based on the Most Probable inflow scenario, Reclamation conducted model runs to determine a possible range of reservoir elevations under Probable Minimum and Probable Maximum inflow scenarios. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. There are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

The projected Lake Mead elevations resulting from these three inflow scenarios are summarized in a graph located at the following link:
<https://www.usbr.gov/lc/region/g4000/24mo/2018/October-Chart.pdf>.

The water year 2019 unregulated inflow into Lake Powell in the October Probable Minimum inflow scenario is 5.00 maf, or 46 percent of average. Consistent with the Interim Guidelines, the October Probable Minimum 24-Month Study results in a projected annual release volume from Glen Canyon Dam of 8.23 maf in water year 2019 and 7.48 maf in water year 2020. With intervening flows between Lake Powell and Lake Mead of 0.70 maf in water year 2019, Lake Mead's elevation is projected to be 1060.50 feet on September 30, 2019.

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

The 2018 AOP is available for download at: <https://www.usbr.gov/lc/region/g4000/aop/AOP18.pdf>

The draft 2019 AOP is available for download at: https://www.usbr.gov/uc/water/rsrvs/ops/aop/AOP19_Third_Consultation_draft.pdf

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum 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)
* Oct 2017	73	1	80	0	80	6494.03	255
H Nov 2017	62	1	78	0	78	6491.65	238
I Dec 2017	46	1	72	8	80	6486.39	204
S Jan 2018	42	1	79	1	80	6479.83	165
T Feb 2018	38	0	72	0	72	6472.86	131
O Mar 2018	58	0	16	56	71	6469.78	117
R Apr 2018	101	1	83	4	87	6472.76	130
I May 2018	354	2	100	123	223	6494.84	260
C Jun 2018	404	2	101	269	370	6499.18	292
A Jul 2018	138	3	92	8	100	6503.79	327
L Aug 2018	50	2	75	1	76	6500.10	299
* Sep 2018	30	2	7	58	65	6495.11	262
WY 2018	1397	15	856	528	1382		
Oct 2018	50	1	54	0	54	6494.40	258
Nov 2018	47	1	51	0	51	6493.79	254
Dec 2018	36	1	52	0	52	6491.34	237
Jan 2019	17	1	52	0	52	6485.74	200
Feb 2019	15	1	47	0	47	6480.18	168
Mar 2019	29	1	49	0	49	6476.06	147
Apr 2019	47	1	48	0	48	6475.69	145
May 2019	89	1	49	0	49	6482.95	184
Jun 2019	163	2	58	0	58	6498.28	286
Jul 2019	97	3	49	0	49	6504.14	331
Aug 2019	42	2	49	0	49	6502.89	321
Sep 2019	25	2	48	0	48	6499.70	297
WY 2019	655	15	606	0	606		
Oct 2019	30	1	55	0	55	6496.07	270
Nov 2019	35	1	54	0	54	6493.34	251
Dec 2019	30	1	55	0	55	6489.46	225
Jan 2020	28	1	55	0	55	6485.25	197
Feb 2020	26	1	52	0	52	6480.80	171
Mar 2020	47	1	55	0	55	6479.27	163
Apr 2020	65	1	54	0	54	6481.21	174
May 2020	116	2	61	0	61	6489.74	227
Jun 2020	180	2	104	12	116	6498.57	288
Jul 2020	99	3	61	0	61	6503.11	323
Aug 2020	47	2	61	0	61	6500.87	306
Sep 2020	33	2	54	0	54	6497.91	283
WY 2020	737	16	722	12	734		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	88	95	8	107	0	107	140	6033.17	3473	151
H Nov 2017	82	98	4	139	0	139	138	6032.07	3430	166
I Dec 2017	52	86	2	174	0	174	135	6029.85	3343	197
S Jan 2018	52	90	2	175	0	175	131	6027.65	3259	208
T Feb 2018	57	91	2	155	1	157	129	6025.91	3194	197
O Mar 2018	86	99	3	106	0	106	128	6025.65	3184	178
R Apr 2018	121	108	5	101	0	101	128	6025.69	3186	277
I May 2018	422	290	8	163	6	169	133	6028.57	3294	572
C Jun 2018	435	401	11	125	0	125	143	6035.09	3550	278
A Jul 2018	140	102	14	120	0	120	142	6034.33	3519	139
L Aug 2018	42	68	13	124	0	124	139	6032.67	3453	137
* Sep 2018	17	52	11	119	0	119	136	6030.75	3378	127
WY 2018	1594	1580	82	1608	7	1616				2626
Oct 2018	51	55	7	97	0	97	134	6029.53	3331	113
Nov 2018	51	55	3	71	0	71	133	6029.02	3311	96
Dec 2018	36	52	2	98	0	98	131	6027.81	3265	121
Jan 2019	23	59	2	98	0	98	130	6026.76	3226	109
Feb 2019	26	58	2	89	0	89	129	6025.90	3194	101
Mar 2019	59	79	3	61	0	61	129	6026.28	3208	94
Apr 2019	77	78	5	60	0	60	130	6026.63	3221	150
May 2019	141	101	8	61	0	61	131	6027.44	3251	285
Jun 2019	224	119	10	137	0	137	130	6026.72	3224	314
Jul 2019	121	73	13	74	0	74	129	6026.35	3210	116
Aug 2019	51	58	12	61	0	61	129	6025.95	3195	72
Sep 2019	32	54	11	60	0	60	128	6025.53	3180	67
WY 2019	890	841	79	968	0	968				1638
Oct 2019	38	63	7	61	0	61	128	6025.40	3175	85
Nov 2019	41	59	3	60	0	60	128	6025.31	3172	88
Dec 2019	28	53	2	80	0	80	127	6024.55	3144	105
Jan 2020	35	62	2	80	0	80	126	6024.03	3125	105
Feb 2020	39	64	2	75	0	75	125	6023.70	3113	98
Mar 2020	86	94	3	61	0	61	126	6024.48	3141	128
Apr 2020	97	85	5	60	0	60	127	6025.03	3161	224
May 2020	163	108	8	146	0	146	125	6023.85	3118	548
Jun 2020	217	153	10	60	0	60	129	6026.02	3198	327
Jul 2020	106	69	13	61	0	61	128	6025.88	3193	94
Aug 2020	47	62	12	61	0	61	128	6025.57	3181	75
Sep 2020	33	53	11	60	0	60	127	6025.12	3165	67
WY 2020	929	926	78	864	0	864				1944

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	8	8	9314.93	78
H Nov 2017	6	6	9315.09	78
I Dec 2017	4	6	9313.84	76
S Jan 2018	4	6	9312.64	74
T Feb 2018	4	6	9311.50	72
O Mar 2018	5	6	9310.51	71
R Apr 2018	8	7	9311.18	72
I May 2018	24	12	9318.33	84
C Jun 2018	13	15	9317.29	82
A Jul 2018	5	14	9311.71	73
L Aug 2018	3	13	9305.51	63
* Sep 2018	3	8	9301.71	58
WY 2018 88 108				
Oct 2018	4	3	9301.92	58
Nov 2018	4	3	9302.28	58
Dec 2018	3	3	9302.21	58
Jan 2019	2	3	9301.70	58
Feb 2019	2	3	9301.19	57
Mar 2019	2	3	9300.72	56
Apr 2019	5	3	9302.02	58
May 2019	16	10	9305.85	64
Jun 2019	23	15	9310.96	71
Jul 2019	11	18	9306.52	65
Aug 2019	6	15	9300.01	55
Sep 2019	4	13	9292.97	46
WY 2019 81 92				
Oct 2019	4	6	9291.60	45
Nov 2019	4	5	9290.70	44
Dec 2019	4	5	9289.67	42
Jan 2020	4	5	9288.65	41
Feb 2020	4	5	9287.45	40
Mar 2020	4	8	9283.63	36
Apr 2020	8	8	9283.32	36
May 2020	23	30	9275.75	29
Jun 2020	31	30	9276.40	30
Jul 2020	11	10	9277.34	31
Aug 2020	7	8	9276.38	30
Sep 2020	6	8	9274.09	28
WY 2020 110 128				

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	37	37	1	102	0	102	7500.64	667
H Nov 2017	32	32	0	40	0	40	7499.68	659
I Dec 2017	25	27	0	93	0	93	7491.44	593
S Jan 2018	20	22	0	60	0	60	7486.51	554
T Feb 2018	23	25	0	32	0	32	7485.54	547
O Mar 2018	28	29	0	43	0	43	7483.73	534
R Apr 2018	48	47	1	82	0	82	7478.94	498
I May 2018	112	100	1	85	0	85	7480.90	513
C Jun 2018	56	57	1	98	0	98	7475.06	471
A Jul 2018	21	31	1	101	0	101	7464.43	399
L Aug 2018	19	28	1	93	0	93	7453.77	334
* Sep 2018	12	17	1	30	39	68	7444.44	282
WY 2018	433	453	7	856	39	895		
Oct 2018	20	20	0	48	0	48	7438.85	254
Nov 2018	20	20	0	18	0	18	7439.20	256
Dec 2018	17	17	0	25	0	25	7437.64	248
Jan 2019	12	13	0	22	0	22	7435.80	239
Feb 2019	11	12	0	19	0	19	7434.18	231
Mar 2019	18	19	0	20	0	20	7433.79	230
Apr 2019	38	37	0	46	0	46	7431.60	219
May 2019	110	104	1	59	0	59	7440.86	264
Jun 2019	130	122	1	55	0	55	7453.09	330
Jul 2019	58	65	1	75	0	75	7451.25	320
Aug 2019	32	41	1	78	0	78	7444.25	281
Sep 2019	19	28	1	68	0	68	7436.21	241
WY 2019	485	496	5	532	0	532		
Oct 2019	25	26	0	41	0	41	7433.10	226
Nov 2019	26	27	0	13	0	13	7436.07	240
Dec 2019	25	26	0	12	0	12	7438.88	254
Jan 2020	24	26	0	13	0	13	7441.37	267
Feb 2020	22	23	0	11	0	11	7443.64	278
Mar 2020	34	38	0	16	0	16	7447.79	300
Apr 2020	63	64	1	40	0	40	7451.89	323
May 2020	156	162	1	180	0	180	7448.67	305
Jun 2020	177	177	1	72	0	72	7465.97	409
Jul 2020	62	61	1	75	0	75	7463.64	394
Aug 2020	45	46	1	75	0	75	7458.82	364
Sep 2020	29	31	1	67	0	67	7452.62	327
WY 2020	688	707	6	614	0	614		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	38	102	1	103	105	0	105	7153.17	112
H Nov 2017	34	40	1	41	42	0	42	7152.45	111
I Dec 2017	26	93	1	94	94	0	94	7152.45	111
S Jan 2018	22	60	2	62	62	0	63	7150.65	110
T Feb 2018	24	32	1	33	34	0	34	7149.19	108
O Mar 2018	29	43	1	44	49	0	49	7143.05	104
R Apr 2018	54	82	6	87	79	0	79	7154.30	112
I May 2018	121	85	8	94	94	0	94	7153.76	112
C Jun 2018	57	98	2	99	99	0	99	7154.16	112
A Jul 2018	22	101	1	102	101	0	101	7155.49	113
L Aug 2018	19	93	0	93	94	0	94	7153.96	112
* Sep 2018	14	68	2	70	84	0	84	7135.77	98
WY 2018	460	895	27	922	935	0	937		
Oct 2018	21	48	1	49	35	0	35	7153.73	112
Nov 2018	21	18	1	19	19	0	19	7153.73	112
Dec 2018	18	25	1	26	26	0	26	7153.73	112
Jan 2019	13	22	1	22	22	0	22	7153.73	112
Feb 2019	12	19	1	20	20	0	20	7153.73	112
Mar 2019	19	20	1	22	22	0	22	7153.73	112
Apr 2019	43	46	4	51	51	0	51	7153.73	112
May 2019	120	59	10	69	69	0	69	7153.73	112
Jun 2019	136	55	6	61	61	0	61	7153.73	112
Jul 2019	60	75	2	76	76	0	76	7153.73	112
Aug 2019	32	78	1	79	79	0	79	7153.73	112
Sep 2019	20	68	1	68	68	0	68	7153.73	112
WY 2019	515	532	30	562	549	0	549		
Oct 2019	26	41	2	42	42	0	42	7153.73	112
Nov 2019	27	13	1	14	14	0	14	7153.73	112
Dec 2019	27	12	2	14	14	0	14	7153.73	112
Jan 2020	26	13	2	15	15	0	15	7153.73	112
Feb 2020	24	11	2	14	14	0	14	7153.73	112
Mar 2020	38	16	4	19	19	0	19	7153.73	112
Apr 2020	72	40	9	49	49	0	49	7153.73	112
May 2020	171	180	16	195	195	0	195	7153.73	112
Jun 2020	187	72	10	82	82	0	82	7153.73	112
Jul 2020	64	75	2	77	77	0	77	7153.73	112
Aug 2020	47	75	2	77	77	0	77	7153.73	112
Sep 2020	31	67	2	69	69	0	69	7153.73	112
WY 2020	742	614	54	668	668	0	668		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum 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)
* Oct 2017	43	105	5	110	109	0	109	6751.20	16	55	53
H Nov 2017	38	42	4	46	46	0	46	6749.89	16	1	46
I Dec 2017	29	94	3	97	97	0	97	6749.23	16	1	98
S Jan 2018	25	63	3	66	62	4	66	6747.99	16	1	65
T Feb 2018	27	34	3	37	16	20	36	6750.06	16	0	34
O Mar 2018	33	49	4	52	53	0	53	6747.97	16	13	38
R Apr 2018	60	79	6	84	84	0	84	6749.35	16	53	28
I May 2018	129	94	9	102	102	0	102	6749.41	16	62	39
C Jun 2018	61	99	3	102	102	0	102	6750.48	16	63	42
A Jul 2018	24	101	2	103	103	0	103	6750.59	16	64	41
L Aug 2018	21	94	2	96	98	0	98	6744.83	15	65	36
* 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
Oct 2018	23	35	2	37	33	0	33	6753.04	17	30	3
Nov 2018	23	19	2	21	21	0	21	6753.04	17	0	21
Dec 2018	20	26	2	28	28	0	28	6753.04	17	0	28
Jan 2019	15	22	2	25	25	0	25	6753.04	17	0	25
Feb 2019	14	20	2	22	22	0	22	6753.04	17	0	22
Mar 2019	22	22	3	25	25	0	25	6753.04	17	5	20
Apr 2019	49	51	6	57	57	0	57	6753.04	17	42	15
May 2019	136	69	16	85	85	0	85	6753.04	17	62	23
Jun 2019	152	61	16	77	77	0	77	6753.04	17	61	16
Jul 2019	67	76	7	83	83	0	83	6753.04	17	65	18
Aug 2019	36	79	4	83	83	0	83	6753.04	17	65	18
Sep 2019	23	68	3	71	71	0	71	6753.04	17	55	16
WY 2019	580	549	65	614	609	0	609			385	224
Oct 2019	30	42	4	46	46	0	46	6753.04	17	30	16
Nov 2019	31	14	4	18	18	0	18	6753.04	17	0	18
Dec 2019	31	14	4	18	18	0	18	6753.04	17	0	18
Jan 2020	30	15	4	18	18	0	18	6753.04	17	0	18
Feb 2020	28	14	4	17	17	0	17	6753.04	17	0	17
Mar 2020	43	19	6	25	25	0	25	6753.04	17	5	20
Apr 2020	83	49	10	60	60	0	60	6753.04	17	42	18
May 2020	193	195	21	217	134	82	217	6753.04	17	62	155
Jun 2020	206	82	19	100	100	0	100	6753.04	17	61	39
Jul 2020	70	77	6	83	83	0	83	6753.04	17	65	18
Aug 2020	53	77	6	83	83	0	83	6753.04	17	65	18
Sep 2020	37	69	5	74	74	0	74	6753.04	17	55	19
WY 2020	834	668	91	759	677	82	759			385	374

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	9	22	7638.22	61
H Nov 2017	5	2	7639.49	63
I Dec 2017	3	1	7640.27	65
S Jan 2018	3	0	7641.42	67
T Feb 2018	3	0	7642.57	70
O Mar 2018	4	0	7644.11	73
R Apr 2018	15	3	7649.29	85
I May 2018	30	31	7648.91	84
C Jun 2018	14	35	7639.22	63
A Jul 2018	8	35	7624.15	35
L Aug 2018	5	19	7613.87	22
* Sep 2018	3	4	7613.06	21
WY 2018 102 153				
Oct 2018	6	2	7616.55	25
Nov 2018	4	1	7618.67	27
Dec 2018	3	0	7620.62	30
Jan 2019	2	0	7621.77	32
Feb 2019	2	0	7622.73	33
Mar 2019	3	0	7624.55	36
Apr 2019	9	0	7629.50	44
May 2019	27	19	7633.46	51
Jun 2019	26	27	7633.05	50
Jul 2019	11	26	7623.96	35
Aug 2019	7	24	7610.64	18
Sep 2019	7	19	7594.61	6
WY 2019 107 120				
Oct 2019	7	11	7586.94	2
Nov 2019	6	2	7594.51	6
Dec 2019	6	2	7601.54	10
Jan 2020	6	2	7606.25	14
Feb 2020	5	2	7609.71	17
Mar 2020	8	2	7614.92	23
Apr 2020	19	2	7626.83	39
May 2020	62	31	7642.80	70
Jun 2020	49	42	7646.00	78
Jul 2020	18	40	7635.25	55
Aug 2020	15	37	7622.12	32
Sep 2020	15	28	7611.08	19
WY 2020 215 200				

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum 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)
* Oct 2017	38	2	49	2	8	32	6055.89	1296	52
H Nov 2017	19	0	16	1	0	26	6055.04	1286	41
I Dec 2017	11	0	9	1	0	25	6053.69	1270	40
S Jan 2018	12	0	9	1	0	23	6052.47	1255	40
T Feb 2018	13	0	11	1	1	17	6051.73	1246	33
O Mar 2018	24	2	19	2	6	21	6050.92	1236	30
R Apr 2018	70	13	46	2	20	38	6049.73	1222	42
I May 2018	88	16	71	3	36	32	6049.80	1223	69
C Jun 2018	6	3	24	4	42	42	6044.23	1159	49
A Jul 2018	-9	0	18	4	42	51	6036.94	1080	53
L Aug 2018	-7	0	7	3	42	51	6028.27	991	48
* Sep 2018	2	0	3	2	27	46	6020.80	919	42
WY 2018	268	36	283	24	224	405			540
Oct 2018	17	0	13	1	6	29	6018.31	896	41
Nov 2018	15	0	12	1	0	22	6017.13	885	30
Dec 2018	14	0	11	0	0	22	6015.93	875	29
Jan 2019	8	0	6	0	0	24	6013.95	857	29
Feb 2019	11	0	9	1	0	18	6012.89	847	23
Mar 2019	33	0	30	1	5	19	6013.46	852	28
Apr 2019	61	0	53	2	21	22	6014.42	861	43
May 2019	100	3	89	3	36	15	6018.36	897	75
Jun 2019	80	11	70	3	52	20	6017.82	892	82
Jul 2019	24	10	29	3	57	33	6010.70	828	60
Aug 2019	16	1	32	2	48	34	6004.48	775	50
Sep 2019	16	1	27	2	26	30	6000.70	744	43
WY 2019	395	26	382	19	250	288			533
Oct 2019	20	0	23	1	10	22	5999.55	735	35
Nov 2019	22	0	18	1	0	15	5999.87	738	29
Dec 2019	22	0	18	0	0	15	6000.10	740	31
Jan 2020	21	0	17	0	0	15	6000.30	741	30
Feb 2020	27	0	24	1	0	14	6001.35	750	27
Mar 2020	80	1	74	1	6	15	6007.60	802	35
Apr 2020	120	7	96	2	22	15	6014.26	859	56
May 2020	221	13	177	3	36	18	6027.05	979	142
Jun 2020	142	28	106	3	53	21	6029.94	1008	136
Jul 2020	23	16	29	3	57	27	6024.04	950	67
Aug 2020	19	1	40	3	48	28	6019.98	912	55
Sep 2020	26	1	39	2	26	21	6018.92	902	47
WY 2020	743	67	661	20	257	227			688

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum Probable Inflow*

Lake Powell



	Unreg Inflow	Regulated Inflow	Evap Losses	PowerPlant Release	Bypass Release	Total Release	Reservoir Elev End of Month	Bank Storage	EOM Storage	Lees 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)
* Oct 2017	449	533	39	640	0	640	3627.09	5216	14530	634
H Nov 2017	387	454	37	630	0	630	3625.29	5200	14332	619
I Dec 2017	299	483	29	740	0	740	3622.85	5179	14068	733
S Jan 2018	262	442	9	860	0	860	3619.14	5147	13672	861
T Feb 2018	269	387	10	730	0	730	3616.02	5121	13346	750
O Mar 2018	332	395	16	800	0	800	3612.23	5090	12956	835
R Apr 2018	382	419	25	705	0	705	3609.39	5067	12669	738
I May 2018	1214	968	29	705	0	705	3611.54	5085	12886	730
C Jun 2018	883	635	45	760	0	760	3609.98	5072	12728	781
A Jul 2018	123	252	53	860	0	860	3603.80	5023	12116	877
L Aug 2018	11	260	50	900	0	900	3597.12	4972	11477	911
* Sep 2018	1	230	45	670	0	670	3592.28	4936	11028	680
WY 2018	4612	5459	386	9000	0	9000				9148
Oct 2018	250	323	30	640	0	640	3588.74	4910	10706	647
Nov 2018	300	325	29	640	0	640	3585.17	4885	10389	647
Dec 2018	250	328	22	720	0	720	3580.76	4854	10005	727
Jan 2019	160	260	7	760	0	760	3575.23	4817	9536	768
Feb 2019	174	253	7	680	0	680	3570.34	4784	9135	692
Mar 2019	295	291	11	710	0	710	3565.34	4753	8736	715
Apr 2019	467	440	17	640	0	640	3562.76	4736	8534	643
May 2019	1038	862	20	630	0	630	3565.27	4752	8730	633
Jun 2019	1181	1021	33	660	0	660	3569.10	4776	9035	661
Jul 2019	483	529	39	750	0	750	3566.07	4757	8793	760
Aug 2019	221	346	38	800	0	800	3560.19	4721	8337	816
Sep 2019	181	299	34	600	0	600	3556.06	4696	8027	612
WY 2019	5000	5276	287	8230	0	8230				8321
Oct 2019	263	314	23	480	0	480	3553.69	4682	7852	487
Nov 2019	367	366	22	500	0	500	3551.70	4670	7708	507
Dec 2019	330	362	17	600	0	600	3548.40	4651	7471	607
Jan 2020	329	357	5	720	0	720	3543.52	4624	7131	729
Feb 2020	372	385	5	640	0	640	3539.98	4605	6890	652
Mar 2020	585	483	8	675	0	675	3537.20	4590	6704	680
Apr 2020	747	610	14	600	0	600	3537.15	4590	6701	604
May 2020	1625	1478	17	600	0	600	3548.78	4654	7498	604
Jun 2020	1654	1352	29	630	0	630	3557.57	4705	8140	632
Jul 2020	404	449	36	710	0	710	3553.87	4683	7865	721
Aug 2020	256	359	34	760	0	760	3548.27	4651	7462	777
Sep 2020	287	373	31	565	0	565	3545.33	4634	7256	577
WY 2020	7218	6888	241	7480	0	7480				7578

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	640	44	43	596	9.7	23	595	663	1082.30	10202
H Nov 2017	630	40	42	731	12.3	16	731	656	1080.95	10090
I Dec 2017	740	43	37	594	9.7	12	593	664	1082.52	10221
S Jan 2018	860	78	30	449	7.3	10	448	692	1087.50	10642
T Feb 2018	730	60	28	687	12.4	10	693	696	1088.21	10703
O Mar 2018	800	70	32	833	13.5	14	832	695	1088.11	10694
R Apr 2018	705	43	39	1015	17.1	21	1015	675	1084.49	10387
I May 2018	705	21	44	1055	17.1	27	1054	651	1080.00	10011
C Jun 2018	760	27	53	986	16.6	28	985	634	1076.81	9748
A Jul 2018	860	106	65	820	13.3	27	819	637	1077.43	9799
L Aug 2018	900	74	70	749	12.2	28	748	645	1078.88	9918
* Sep 2018	670	86	58	725	12.2	26	724	642	1078.29	9870
WY 2018	9000	692	541	9240		243	9237			
Oct 2018	640	51	42	659	10.7	37	659	639	1077.76	9826
Nov 2018	640	52	42	703	11.8	30	703	634	1076.81	9748
Dec 2018	720	54	36	472	7.7	22	472	648	1079.59	9977
Jan 2019	760	63	30	631	10.3	12	631	658	1081.29	10118
Feb 2019	680	91	27	705	12.7	14	705	659	1081.57	10141
Mar 2019	710	38	31	1075	17.5	21	1075	636	1077.26	9785
Apr 2019	640	26	37	1079	18.1	23	1079	607	1071.78	9342
May 2019	630	23	42	987	16.1	27	987	583	1067.00	8963
Jun 2019	660	6	50	927	15.6	33	927	562	1062.84	8640
Jul 2019	750	77	61	846	13.8	36	846	555	1061.42	8531
Aug 2019	800	127	65	760	12.4	34	760	559	1062.25	8595
Sep 2019	600	91	53	754	12.7	27	754	550	1060.50	8461
WY 2019	8230	701	516	9598		317	9598			
Oct 2019	480	56	39	530	8.6	28	530	546	1059.73	8403
Nov 2019	500	52	38	689	11.6	21	689	534	1057.28	8218
Dec 2019	600	54	33	614	10.0	14	614	534	1057.19	8211
Jan 2020	720	70	27	607	9.9	14	607	542	1058.96	8345
Feb 2020	640	96	25	663	11.5	17	663	544	1059.35	8374
Mar 2020	675	39	28	988	16.1	22	988	525	1055.29	8070
Apr 2020	600	33	34	997	16.8	25	997	499	1049.85	7672
May 2020	600	32	38	917	14.9	31	917	477	1045.20	7340
Jun 2020	630	13	45	929	15.6	31	929	455	1040.33	7001
Jul 2020	710	88	55	813	13.2	31	813	449	1038.96	6906
Aug 2020	760	134	58	773	12.6	28	773	451	1039.43	6938
Sep 2020	565	91	48	701	11.8	25	701	444	1037.82	6828
WY 2020	7480	756	467	9222		285	9222			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum Probable Inflow*

Davis Dam - Lake Mohave



	Hoover Release	Side Inflow	Evap Losses	Power Release	Spill Release	Total Release	Total Release	Reservoir Elev	EOM
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	End of Month (Ft)	Storage (1000 Ac-Ft)
* Oct 2017	596	-2	15	671	0	671	10.9	636.00	1512
H Nov 2017	731	-18	11	595	0	595	10.0	640.07	1619
I Dec 2017	594	-16	9	552	0	552	9.0	640.68	1636
S Jan 2018	449	2	10	437	0	437	7.1		1641
T Feb 2018	687	-4	10	611	0	611	11.0	643.18	1704
O Mar 2018	833	-1	13	836	0	836	13.6	642.57	1687
R Apr 2018	1015	-3	17	1001	0	1001	16.8	642.40	1682
I May 2018	1055	-11	22	1001	0	1001	16.3	643.17	1703
C Jun 2018	986	-21	26	909	0	909	15.3	644.29	1734
A Jul 2018	820	-6	26	827	0	827	13.4	642.91	1696
L Aug 2018	749	-13	23	730	0	730	11.9	642.29	1679
* Sep 2018	725	-11	18	814	0	814	13.7	637.87	1561
WY 2018	9240	-103	198	8981	0	8981			
Oct 2018	659	-4	15	690	0	690	11.2	636.00	1512
Nov 2018	703	-12	10	627	0	627	10.5	638.00	1564
Dec 2018	472	-12	9	425	0	425	6.9	639.01	1591
Jan 2019	631	-19	10	527	0	527	8.6	641.80	1666
Feb 2019	705	-15	10	680	0	680	12.2	641.80	1666
Mar 2019	1075	-17	13	1010	0	1010	16.4	643.05	1700
Apr 2019	1079	-20	17	1044	0	1044	17.5	643.00	1699
May 2019	987	-12	22	952	0	952	15.5	643.00	1699
Jun 2019	927	-15	25	887	0	887	14.9	643.00	1699
Jul 2019	846	-15	25	832	0	832	13.5	642.00	1671
Aug 2019	760	-12	23	726	0	726	11.8	642.00	1671
Sep 2019	754	-12	18	777	0	777	13.1	640.01	1618
WY 2019	9598	-166	198	9177	0	9177			
Oct 2019	530	-4	15	695	0	695	11.3	633.00	1434
Nov 2019	689	-12	10	615	0	615	10.3	635.00	1486
Dec 2019	614	-12	9	496	0	496	8.1	638.71	1583
Jan 2020	607	-19	10	496	0	496	8.1	641.80	1666
Feb 2020	663	-15	10	639	0	639	11.1	641.80	1666
Mar 2020	988	-17	13	923	0	923	15.0	643.05	1700
Apr 2020	997	-20	17	962	0	962	16.2	643.00	1699
May 2020	917	-12	22	882	0	882	14.3	643.00	1699
Jun 2020	929	-15	25	889	0	889	14.9	643.00	1699
Jul 2020	813	-15	25	800	0	800	13.0	642.00	1671
Aug 2020	773	-12	23	739	0	739	12.0	642.00	1671
Sep 2020	701	-12	18	724	0	724	12.2	640.01	1618
WY 2020	9222	-166	197	8858	0	8858			

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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)
* Oct 2017	671	9	12	478	7.8	69	131	446.27	548	65	1.1
H Nov 2017	595	12	9	349	5.9	89	127	447.86	577	99	1.7
I Dec 2017	552	17	7	335	5.5	100	144	446.80	557	109	1.8
S Jan 2018	437	3	6	329	5.3	29	90	445.81	539	125	2.0
T Feb 2018	611	3	8	429	7.7	12	109	448.52	590	145	2.6
O Mar 2018	836	-3	9	637	10.4	61	139	447.46	570	195	3.2
R Apr 2018	1001	-8	11	735	12.4	75	168	447.13	564	175	2.9
I May 2018	1001	10	13	697	11.3	87	178	448.51	590	124	2.0
C Jun 2018	909	6	15	712	12.0	91	88	448.43	588	136	2.3
A Jul 2018	827	20	17	656	10.7	101	72	448.00	580	133	2.2
L Aug 2018	730	21	17	611	9.9	99	22	447.53	571	104	1.7
* Sep 2018	814	10	15	512	8.6	95	164	448.95	598	94	1.6
WY 2018	8981	100	139	6479		910	1431			1504	
Oct 2018	690	23	12	461	7.5	85	175	447.50	571	63	1.0
Nov 2018	627	16	9	407	6.8	82	139	447.50	571	97	1.6
Dec 2018	425	18	7	301	4.9	26	124	446.50	552	104	1.7
Jan 2019	527	21	6	318	5.2	99	120	446.50	552	138	2.2
Feb 2019	680	11	8	485	8.7	71	120	446.50	552	160	2.9
Mar 2019	1010	7	9	718	11.7	90	188	446.70	555	198	3.2
Apr 2019	1044	16	11	710	11.9	109	183	448.70	593	175	2.9
May 2019	952	15	13	642	10.4	111	188	448.70	593	104	1.7
Jun 2019	887	13	16	683	11.5	109	78	448.70	593	105	1.8
Jul 2019	832	21	17	647	10.5	111	78	448.00	580	111	1.8
Aug 2019	726	23	17	589	9.6	111	29	447.50	571	100	1.6
Sep 2019	777	17	15	509	8.6	109	152	447.50	570	89	1.5
WY 2019	9177	200	139	6471		1115	1574			1444	
Oct 2019	695	23	12	490	8.0	69	140	447.50	571	74	1.2
Nov 2019	615	16	9	408	6.9	69	140	447.50	571	116	1.9
Dec 2019	496	18	7	313	5.1	69	140	446.50	552	131	2.1
Jan 2020	496	21	6	313	5.1	87	106	446.50	552	134	2.2
Feb 2020	639	11	8	479	8.3	57	100	446.50	552	155	2.7
Mar 2020	923	7	9	708	11.5	77	125	446.70	555	191	3.1
Apr 2020	962	16	11	699	11.7	97	125	448.70	593	168	2.8
May 2020	882	15	13	635	10.3	99	137	448.70	593	100	1.6
Jun 2020	889	13	16	675	11.3	97	100	448.70	593	102	1.7
Jul 2020	800	21	17	642	10.4	99	62	448.00	580	107	1.7
Aug 2020	739	23	17	587	9.5	99	56	447.50	571	97	1.6
Sep 2020	724	17	15	507	8.5	97	112	447.50	570	86	1.5
WY 2020	8858	200	139	6455		1017	1342			1460	

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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
* Oct 2017	596	9.7	1082.30	10202	21	441.43	976.1	229.0	66	384.2
H Nov 2017	731	12.3	1080.95	10090	-113	435.01	996.0	287.9	63	393.6
I Dec 2017	594	9.7	1082.52	10221	131	439.05	821.0	235.7	52	396.6
S Jan 2018	449	7.3	1087.50	10642	421	442.14	834.0	176.5	51	392.9
T Feb 2018	687	12.4	1088.21	10703	61	441.97	1220.1	275.0	75	400.3
O Mar 2018	833	13.5	1088.11	10694	-9	442.23	1005.9	333.9	62	400.8
R Apr 2018	1015	17.1	1084.49	10387	-308	437.15	880.9	406.2	55	400.0
I May 2018	1055	17.1	1080.00	10011	-376	432.39	1385.9	412.1	88	390.8
C Jun 2018	986	16.6	1076.81	9748	-263	428.91	1552.0	378.6	100	384.1
A Jul 2018	820	13.3	1077.43	9799	51	432.34	1552.0	313.2	100	382.0
L Aug 2018	749	12.2	1078.88	9918	119	435.01	1562.0	287.4	100	383.8
* Sep 2018	725	12.2	1078.29	9870	-49	434.15	1562.0	278.7	100	384.7
WY 2018	9240							3614.3		
Oct 2018	659	10.7	1077.76	9826	-44	429.93	1406.1	252.6	87	383.0
Nov 2018	703	11.8	1076.81	9748	-78	431.85	1005.9	277.5	62	394.7
Dec 2018	472	7.7	1079.59	9977	229	432.45	880.9	185.5	55	392.6
Jan 2019	631	10.3	1081.29	10118	141	428.64	1576.0	242.7	100	384.8
Feb 2019	705	12.7	1081.57	10141	23	428.72	1552.0	273.4	100	388.0
Mar 2019	1075	17.5	1077.26	9785	-356	426.32	1552.0	413.9	100	385.0
Apr 2019	1079	18.1	1071.78	9342	-444	421.08	1562.0	412.1	100	382.0
May 2019	987	16.1	1067.00	8963	-378	416.02	1562.0	366.3	100	371.1
Jun 2019	927	15.6	1062.84	8640	-323	414.92	1067.9	354.8	68	382.6
Jul 2019	846	13.8	1061.42	8531	-109	413.27	945.0	324.6	61	383.9
Aug 2019	760	12.4	1062.25	8595	64	413.31	950.0	288.8	61	379.9
Sep 2019	754	12.7	1060.50	8461	-134	413.29	999.0	286.6	63	380.3
WY 2019	9598							3678.7		
Oct 2019	530	8.6	1059.73	8403	-58	414.32	999.0	196.2	63	369.9
Nov 2019	689	11.6	1057.28	8218	-185	414.94	1000.0	260.6	63	378.0
Dec 2019	614	10.0	1057.19	8211	-7	412.21	925.9	230.3	60	375.1
Jan 2020	607	9.9	1058.96	8345	133	410.82	913.0	226.8	60	373.4
Feb 2020	663	11.5	1059.35	8374	29	406.66	1512.0	241.7	100	364.4
Mar 2020	988	16.1	1055.29	8070	-304	404.43	1427.0	355.6	100	360.0
Apr 2020	997	16.8	1049.85	7672	-398	399.34	1396.3	356.1	100	357.0
May 2020	917	14.9	1045.20	7340	-332	394.37	1370.1	324.2	100	353.5
Jun 2020	929	15.6	1040.33	7001	-340	392.92	917.9	334.3	68	359.8
Jul 2020	813	13.2	1038.96	6906	-95	390.92	812.8	292.1	61	359.3
Aug 2020	773	12.6	1039.43	6938	32	390.81	813.5	276.5	61	357.6
Sep 2020	701	11.8	1037.82	6828	-110	390.69	834.1	248.6	63	354.8
WY 2020	9222							3342.8		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum 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
*	Oct 2017	671	10.9	636.00	1512	-91	134.26	179.3	81.3	70	121.3
H	Nov 2017	595	10.0	640.07	1619	107	138.81	151.3	73.1	59	122.7
I	Dec 2017	552	9.0	640.68	1636	17	139.44	131.6	69.5	52	126.0
S	Jan 2018	437	7.1		1641	5	141.78	159.6	55.0	63	125.9
T	Feb 2018	611	11.0	643.18	1704	63	142.18	162.1	76.6	64	125.4
O	Mar 2018	836	13.6	642.57	1687	-17	139.99	189.2	105.4	74	126.1
R	Apr 2018	1001	16.8	642.40	1682	-5	141.14	207.4	125.1	81	125.0
I	May 2018	1001	16.3	643.17	1703	21	141.89	204.0	126.2	80	126.1
C	Jun 2018	909	15.3	644.29	1734	31	143.00	255.0	115.0	100	126.6
A	Jul 2018	827	13.4	642.91	1696	-38	141.79	255.0	105.3	100	127.4
L	Aug 2018	730	11.9	642.29	1679	-17	141.02	255.0	92.7	100	127.1
*	Sep 2018	814	13.7	637.87	1561	-119	136.59	255.0	101.2	100	124.3
WY 2018		8981							1126.3		
	Oct 2018	690	11.2	636.00	1512	-49	131.78	184.3	83.5	72	121.1
	Nov 2018	627	10.5	638.00	1564	52	132.93	153.0	76.2	60	121.4
	Dec 2018	425	6.9	639.01	1591	27	132.69	207.3	52.8	81	124.1
	Jan 2019	527	8.6	641.80	1666	75	133.31	255.0	66.0	100	125.2
	Feb 2019	680	12.2	641.80	1666	0	134.78	255.0	85.0	100	125.1
	Mar 2019	1010	16.4	643.05	1700	34	135.44	255.0	125.6	100	124.3
	Apr 2019	1044	17.5	643.00	1699	-1	136.07	255.0	130.0	100	124.5
	May 2019	952	15.5	643.00	1699	0	136.04	255.0	119.2	100	125.1
	Jun 2019	887	14.9	643.00	1699	0	136.04	255.0	111.1	100	125.3
	Jul 2019	832	13.5	642.00	1671	-27	135.51	255.0	104.3	100	125.3
	Aug 2019	726	11.8	642.00	1671	0	134.99	255.0	91.0	100	125.4
	Sep 2019	777	13.1	640.01	1618	-54	133.94	255.0	96.4	100	124.1
WY 2019		9177							1141.0		
	Oct 2019	695	11.3	633.00	1434	-183	131.28	185.9	83.8	73	120.7
	Nov 2019	615	10.3	635.00	1486	51	129.81	153.0	73.1	60	118.8
	Dec 2019	496	8.1	638.71	1583	97	131.17	200.7	60.6	79	122.2
	Jan 2020	496	8.1	641.80	1666	83	133.16	255.0	62.1	100	125.3
	Feb 2020	639	11.1	641.80	1666	0	134.78	255.0	80.1	100	125.5
	Mar 2020	923	15.0	643.05	1700	34	135.44	255.0	115.2	100	124.8
	Apr 2020	962	16.2	643.00	1699	-1	136.07	255.0	120.2	100	124.9
	May 2020	882	14.3	643.00	1699	0	136.04	255.0	110.7	100	125.5
	Jun 2020	889	14.9	643.00	1699	0	136.04	255.0	111.3	100	125.3
	Jul 2020	800	13.0	642.00	1671	-27	135.51	255.0	100.3	100	125.5
	Aug 2020	739	12.0	642.00	1671	0	134.99	255.0	92.6	100	125.4
	Sep 2020	724	12.2	640.01	1618	-54	133.94	255.0	90.0	100	124.4
WY 2020		8858							1100.1		

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2018 24-Month Study

Minimum 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
* Oct 2017	478	7.8	446.27	548	-17	80.03	92.9	33.6	77	70.4
H Nov 2017	349	5.9	447.86	577	30	81.65	90.0	24.1	75	69.2
I Dec 2017	335	5.5	446.80	557	-20	81.55	92.9	22.5	77	67.0
S Jan 2018	329	5.3	445.81	539	-18	80.05	117.1	22.8	98	69.2
T Feb 2018	429	7.7	448.52	590	50	81.30	92.1	30.3	77	70.6
O Mar 2018	638	10.4	447.46	570	-20	81.79	102.6	44.9	85	70.4
R Apr 2018	735	12.4	447.13	564	-6	81.11	120.0	50.8	100	69.1
I May 2018	697	11.3	448.51	590	26	82.36	120.0	48.5	100	69.6
C Jun 2018	712	12.0	448.43	588	-1	80.33	120.0	49.7	100	69.9
A Jul 2018	656	10.7	448.00	580	-8	81.97	120.0	46.0	100	70.2
L Aug 2018	611	9.9	447.53	571	-9	79.27	120.0	42.7	100	69.9
* Sep 2018	512	8.6	448.95	598	27	83.02	120.0	35.9	100	70.1
WY 2018	6479							451.7		
Oct 2018	461	7.5	447.50	571	-28	77.00	90.0	30.6	75	66.4
Nov 2018	407	6.8	447.50	571	0	76.19	92.0	26.7	77	65.5
Dec 2018	301	4.9	446.50	552	-19	74.69	113.2	18.9	94	63.0
Jan 2019	318	5.2	446.50	552	0	75.27	91.0	20.3	76	63.8
Feb 2019	485	8.7	446.50	552	0	75.21	92.1	31.8	77	65.5
Mar 2019	718	11.7	446.70	555	4	74.05	119.0	46.7	99	65.0
Apr 2019	710	11.9	448.70	593	38	75.08	120.0	46.7	100	65.8
May 2019	642	10.4	448.70	593	0	76.05	120.0	42.6	100	66.3
Jun 2019	683	11.5	448.70	593	0	76.05	120.0	45.4	100	66.5
Jul 2019	647	10.5	448.00	580	-13	75.71	120.0	42.7	100	66.1
Aug 2019	589	9.6	447.50	571	-9	75.13	120.0	38.5	100	65.4
Sep 2019	509	8.6	447.50	570	0	74.89	120.0	33.1	100	65.0
WY 2019	6471							424.1		
Oct 2019	490	8.0	447.50	571	0	76.29	90.0	32.4	75	66.1
Nov 2019	408	6.9	447.50	571	0	76.14	93.0	26.7	78	65.5
Dec 2019	313	5.1	446.50	552	-19	74.65	114.2	19.7	95	63.2
Jan 2020	313	5.1	446.50	552	0	75.07	94.8	19.9	79	63.6
Feb 2020	479	8.3	446.50	552	0	75.21	92.1	31.3	77	65.4
Mar 2020	708	11.5	446.70	555	4	74.01	120.0	45.9	100	64.9
Apr 2020	699	11.7	448.70	593	38	75.08	120.0	46.0	100	65.8
May 2020	635	10.3	448.70	593	0	76.05	120.0	42.1	100	66.3
Jun 2020	675	11.3	448.70	593	0	76.05	120.0	44.9	100	66.5
Jul 2020	642	10.4	448.00	580	-13	75.71	120.0	42.4	100	66.0
Aug 2020	587	9.5	447.50	571	-9	75.13	120.0	38.4	100	65.4
Sep 2020	507	8.5	447.50	570	0	74.89	120.0	32.9	100	65.0
WY 2020	6455							422.7		

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum 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
* Oct 2017	294	42	30	37	21	7
H Nov 2017	288	55	12	14	8	7
I Dec 2017	339	68	27	33	19	6
S Jan 2018	394	68	17	21	12	6
T Feb 2018	335	60	9	12	3	5
O Mar 2018	364	41	12	16	9	1
Winter 2018	2013	334	107	133	71	31
R Apr 2018	318	39	23	27	16	5
I May 2018	318	63	23	33	20	7
C Jun 2018	343	50	27	34	20	8
A Jul 2018	384	48	27	36	20	8
L Aug 2018	393	50	24	33	19	7
* Sep 2018	288	47	8	29	16	1
Summer 2018	2045	297	133	193	111	36
Oct 2018	248	36	12	12	5	5
Nov 2018	245	26	4	7	4	4
Dec 2018	275	36	6	9	5	4
Jan 2019	287	36	5	8	4	4
Feb 2019	253	32	5	7	4	4
Mar 2019	261	22	5	8	4	4
Winter 2019	1569	189	38	52	26	25
Apr 2019	233	22	11	18	10	3
May 2019	229	22	15	25	15	4
Jun 2019	241	50	14	22	13	5
Jul 2019	275	27	20	27	14	5
Aug 2019	290	22	20	29	14	5
Sep 2019	215	22	17	25	12	4
Summer 2019	1483	165	97	146	79	26
Oct 2019	171	22	10	15	8	5
Nov 2019	177	22	3	5	3	5
Dec 2019	211	29	3	5	3	5
Jan 2020	250	29	3	5	3	4
Feb 2020	221	27	3	5	3	4
Mar 2020	230	22	4	7	4	4
Winter 2020	1260	152	26	43	25	27
Apr 2020	204	22	11	18	10	4
May 2020	206	53	47	70	23	5
Jun 2020	222	22	19	29	17	9
Jul 2020	252	22	21	28	14	6
Aug 2020	267	22	20	28	14	6
Sep 2020	197	22	18	25	13	5
Summer 2020	1152	141	117	173	80	29

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



October 2018 24-Month Study

Minimum Probable Inflow*

Flood Control Criteria

Beginning of Month Conditions



Date	Flaming	Blue	Lake	Upper Basin	Lake	Total	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space	Mead	Mead	Sys		
	Gorge	Mesa	Navajo	Powell	Total			Mead	KAF	Gorge	Mesa	Navajo	Allow	Powell	Mead	Total	Required	Sched Rel
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	
****PREDICTED SPACE****								****CREDITABLE SPACE****										
Oct 2018	453	547	777	13294	15071	17507	32578	453	547	777	1777	13294	17507	32578	3040	659	0	27.5
Nov 2018	505	576	800	13616	15496	17551	33047	505	576	800	1881	13616	17551	33047	3810	703	0	27.2
Dec 2018	529	574	811	13933	15847	17629	33475	529	574	811	1913	13933	17629	33475	4580	472	0	26.9
Jan 2019	592	582	821	14317	16312	17400	33712	592	582	821	1995	14317	17400	33712	5350	631	0	26.6
****EFFECTIVE SPACE****								****EFFECTIVE SPACE****										
Jan 2019	592	582	821	14317	16312	17400	33712	89	81	136	306	14317	17400	32023	5350	631	0	26.6
Feb 2019	668	590	839	14786	16883	17259	34143	164	91	154	408	14786	17259	32453	1500	705	0	26.1
Mar 2019	733	598	849	15187	17367	17236	34603	227	99	162	488	15187	17236	32912	1500	1075	0	25.4
Apr 2019	740	600	844	15586	17769	17592	35361	230	101	151	482	15586	17592	33660	1500	1079	0	24.8
May 2019	728	610	835	15788	17961	18035	35997	213	109	120	442	15788	18035	34265	1500	987	0	24.8
Jun 2019	659	566	799	15592	17616	18414	36030	133	59	46	238	15592	18414	34243	1500	927	0	24.9
Jul 2019	584	499	804	15287	17175	18737	35912	46	-16	-4	26	15287	18737	34050	1500	846	0	24.5
****CREDITABLE SPACE****								****CREDITABLE SPACE****										
Aug 2019	553	510	868	15529	17459	18846	36305	553	510	868	1931	15529	18846	36305	1500	760	0	23.9
Sep 2019	578	548	921	15985	18031	18782	36813	578	548	921	2046	15985	18782	36813	2270	754	0	23.3
Oct 2019	618	588	952	16295	18452	18916	37369	618	588	952	2158	16295	18916	37369	3040	530	0	22.8
Nov 2019	649	603	961	16470	18683	18974	37657	649	603	961	2213	16470	18974	37657	3810	689	0	22.6
Dec 2019	672	589	958	16614	18834	19159	37993	672	589	958	2219	16614	19159	37993	4580	614	0	22.4
Jan 2020	725	576	956	16851	19108	19166	38273	725	576	956	2257	16851	19166	38273	5350	607	0	22.2
****EFFECTIVE SPACE****								****EFFECTIVE SPACE****										
Jan 2020	725	576	956	16851	19108	19166	38273	200	132	397	729	16851	19166	36745	5350	607	0	22.2
Feb 2020	772	563	955	17191	19481	19032	38513	245	121	394	760	17191	19032	36984	1500	663	0	22.0
Mar 2020	810	551	946	17432	19740	19003	38743	281	110	385	777	17432	19003	37212	1500	988	0	21.6
Apr 2020	790	529	894	17618	19831	19307	39139	257	91	327	675	17618	19307	37600	1500	997	0	21.4
May 2020	759	506	837	17621	19723	19705	39428	220	68	246	534	17621	19705	37859	1500	917	0	21.9
Jun 2020	749	524	717	16824	18814	20037	38851	202	92	87	381	16824	20037	37242	1500	929	0	22.5
Jul 2020	608	420	688	16182	17898	20376	38275	45	-13	2	34	16182	20376	36592	1500	813	0	22.0
****CREDITABLE SPACE****								****CREDITABLE SPACE****										
Aug 2020	578	435	746	16457	18217	20471	38688	578	435	746	1760	16457	20471	38688	1500	773	0	21.6
Sep 2020	607	466	784	16860	18717	20439	39156	607	466	784	1857	16860	20439	39156	2270	701	0	21.1

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