

To: All Annual Operating Plan Recipients

From: Lower Colorado Basin Region
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The operation of Lake Powell and Lake Mead in this November 2020 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 2020 Annual Operating Plan (AOP) and draft 2021 AOP. Pursuant to the Interim Guidelines, the August 2020 24-Month Study projections of the January 1, 2021, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2021.

The August 2020 24-Month Study projected the January 1, 2020, Lake Powell elevation to be below the 2021 Equalization Elevation of 3,659 feet and above elevation 3,575 feet. Consistent with Section 6.B of the Interim Guidelines, Lake Powell will operate in the Upper Elevation Balancing Tier for water year 2021, 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 2021. This November 2020 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 November 24-Month Study projects a balancing release of 8.234 maf in water year 2021.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar years 2020 and 2021. In addition, Section III.B of Exhibit 1 to the Lower Basin Drought Contingency Plan (DCP) Agreement is also governing the operation of Lake Mead in calendar years 2020 and 2021.

The 2021 operational tier determinations for Lake Powell and Lake Mead will be documented in the 2021 AOP, which is currently in development.

The 2020 AOP is available for download at:

<https://www.usbr.gov/lc/region/g4000/aop/AOP20.pdf>.

The draft 2021 AOP is available for download at:

https://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP21_draft.pdf.

The Interim Guidelines are available for download at:

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

The Colorado River DCPs are available for download at:

<https://www.usbr.gov/lc/region/programs/dcp.html>.

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows. The observed unregulated inflow into Lake Powell for the month of October was 0.091 maf or 18 percent of the 30-year average from 1981 to 2010. The November unregulated inflow forecast for Lake Powell is 0.250 maf or 53 percent of the 30-year average. The observed 2020 April through July unregulated inflow is 3.758 maf or 52 percent of average.

In this study, the calendar year 2020 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 0.828 maf. The calendar year 2020 diversion for the Central Arizona Project (CAP) is forecasted to be 1.367 maf. Consumptive use for Nevada above Hoover (SNWP Use) is forecasted to be 0.247 maf for calendar year 2020.

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 Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Colleen Dwyer at (702) 293-8420.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Fontenelle Reservoir



— BUREAU OF —
RECLAMATION

	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Nov 2019	46	1	63	0	63	6491.39	236
H	Dec 2019	36	1	64	0	64	6487.01	208
I	Jan 2020	34	1	64	0	64	6481.89	177
S	Feb 2020	32	1	60	0	60	6476.34	147
T	Mar 2020	54	1	65	0	65	6473.94	136
O	Apr 2020	83	1	73	0	73	6475.89	145
R	May 2020	161	1	101	0	101	6486.37	203
I	Jun 2020	288	2	107	73	180	6501.43	309
C	Jul 2020	145	3	99	23	121	6504.12	330
A	Aug 2020	41	2	74	0	74	6499.62	295
L	Sep 2020	25	2	26	35	61	6494.55	258
	WY 2020	996	15	856	137	993		
*	Oct 2020	32	1	0	55	55	6490.95	233
	Nov 2020	35	1	54	0	54	6487.98	215
	Dec 2020	28	1	55	0	55	6483.55	187
	Jan 2021	27	1	55	0	55	6478.36	158
	Feb 2021	25	0	50	0	50	6473.09	133
	Mar 2021	42	0	58	0	58	6469.44	117
	Apr 2021	65	1	60	0	60	6470.60	122
	May 2021	110	1	62	0	62	6480.32	169
	Jun 2021	225	2	96	0	96	6499.56	296
	Jul 2021	150	3	101	4	105	6505.03	338
	Aug 2021	58	2	67	0	67	6503.64	327
	Sep 2021	40	2	19	40	60	6500.88	306
	WY 2021	837	15	676	99	775		
	Oct 2021	42	1	61	0	61	6498.13	285
	Nov 2021	42	1	71	0	71	6493.92	255
	Dec 2021	33	1	74	0	74	6487.69	213
	Jan 2022	31	1	74	0	74	6480.53	170
	Feb 2022	29	1	67	0	67	6472.75	131
	Mar 2022	53	0	69	0	69	6468.87	114
	Apr 2022	82	1	73	0	73	6470.96	123
	May 2022	169	1	91	0	91	6485.54	199
	Jun 2022	278	2	103	73	176	6499.96	299
	Jul 2022	164	3	102	35	137	6503.11	323
	Aug 2022	71	2	65	0	65	6503.49	326
	Sep 2022	44	2	60	0	60	6501.23	308
	WY 2022	1037	15	911	108	1019		
	Oct 2022	45	1	61	0	61	6498.85	290

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Flaming Gorge Reservoir



— BUREAU OF —
RECLAMATION

		Unreg Inflow	Reg Inflow	Evap Losses	Power Release	Bypass Release	Total Release	Bank Storage	Reservoir Elev End of Month	Live Storage	Jensen 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)
*	Nov 2019	63	79	4	81	0	81	136	6030.99	3387	115
H	Dec 2019	39	67	2	128	0	128	134	6029.43	3327	169
I	Jan 2020	49	80	2	133	0	133	132	6028.03	3274	168
S	Feb 2020	47	76	2	124	0	124	130	6026.75	3225	157
T	Mar 2020	106	117	3	119	0	119	130	6026.61	3220	228
O	Apr 2020	114	104	5	112	0	112	129	6026.26	3207	308
R	May 2020	218	158	8	98	31	129	130	6026.81	3228	672
I	Jun 2020	343	236	10	157	31	188	131	6027.76	3263	530
C	Jul 2020	158	134	13	90	0	90	133	6028.55	3293	131
A	Aug 2020	35	67	12	112	0	112	130	6027.10	3238	124
L	Sep 2020	28	64	11	98	0	98	129	6025.93	3195	112
	WY 2020	1253	1251	80	1333	62	1395				2825
*	Oct 2020	26	50	7	64	0	64	128	6025.39	3175	85
	Nov 2020	40	59	3	54	0	54	128	6025.43	3176	77
	Dec 2020	30	57	2	61	0	61	128	6025.28	3171	81
	Jan 2021	35	63	2	61	0	61	128	6025.28	3171	81
	Feb 2021	35	60	2	56	0	56	128	6025.34	3173	76
	Mar 2021	83	99	3	64	0	64	129	6026.16	3203	126
	Apr 2021	105	100	5	62	0	62	130	6027.00	3235	227
	May 2021	145	97	8	70	0	70	131	6027.49	3253	495
	Jun 2021	255	126	10	125	0	125	131	6027.24	3244	545
	Jul 2021	170	125	13	65	0	65	132	6028.41	3288	130
	Aug 2021	67	76	13	92	0	92	131	6027.67	3260	112
	Sep 2021	45	65	11	89	0	89	130	6026.75	3226	104
	WY 2021	1036	975	79	864	0	864				2141
	Oct 2021	50	70	7	62	0	62	130	6026.77	3226	96
	Nov 2021	48	78	3	64	0	64	130	6027.03	3236	98
	Dec 2021	33	74	2	101	0	101	129	6026.29	3208	128
	Jan 2022	40	83	2	101	0	101	128	6025.76	3188	128
	Feb 2022	44	82	2	92	0	92	128	6025.45	3177	116
	Mar 2022	95	111	3	82	0	82	129	6026.13	3202	161
	Apr 2022	125	116	5	79	0	79	130	6026.94	3232	287
	May 2022	246	169	8	78	0	78	133	6029.05	3312	592
	Jun 2022	360	258	11	180	0	180	136	6030.75	3378	578
	Jul 2022	184	158	14	65	0	65	139	6032.67	3453	138
	Aug 2022	80	75	13	90	0	90	138	6031.99	3426	114
	Sep 2022	50	66	11	100	0	100	136	6030.86	3382	114
	WY 2022	1356	1339	81	1095	0	1095				2553
	Oct 2022	54	71	7	79	0	79	135	6030.46	3367	112

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Taylor Park Reservoir



— BUREAU OF —
RECLAMATION

	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Nov 2019	5	6	9313.66	76
H	Dec 2019	5	6	9313.35	75
I	Jan 2020	4	6	9312.52	74
S	Feb 2020	4	6	9311.72	73
T	Mar 2020	5	6	9310.81	71
O	Apr 2020	7	6	9311.67	73
R	May 2020	24	10	9319.44	86
I	Jun 2020	22	16	9322.93	92
C	Jul 2020	8	17	9317.91	83
A	Aug 2020	4	14	9311.83	73
L	Sep 2020	5	9	9309.62	69
	WY 2020	101	113		
*	Oct 2020	4	5	9308.95	68
	Nov 2020	4	5	9308.15	67
	Dec 2020	4	5	9307.04	65
	Jan 2021	3	5	9305.71	63
	Feb 2021	2	5	9304.08	61
	Mar 2021	3	5	9302.55	59
	Apr 2021	6	10	9299.66	55
	May 2021	20	14	9303.94	61
	Jun 2021	32	20	9311.74	73
	Jul 2021	14	24	9305.64	63
	Aug 2021	7	19	9297.00	51
	Sep 2021	5	18	9286.13	39
	WY 2021	104	135		
	Oct 2021	5	12	9279.60	32
	Nov 2021	5	5	9279.04	32
	Dec 2021	5	5	9278.46	31
	Jan 2022	4	5	9277.41	31
	Feb 2022	4	5	9276.46	30
	Mar 2022	5	5	9275.61	29
	Apr 2022	9	10	9274.38	28
	May 2022	27	12	9290.16	43
	Jun 2022	42	16	9309.49	69
	Jul 2022	16	16	9309.30	69
	Aug 2022	9	16	9304.70	62
	Sep 2022	7	16	9298.46	53
	WY 2022	137	123		
	Oct 2022	7	12	9294.28	48

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Blue Mesa Reservoir



— BUREAU OF —
RECLAMATION

		UnReg Inflow	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)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
*	Nov 2019	31	32	0	54	0	72	7497.63	642
H	Dec 2019	30	30	0	70	0	85	7490.79	588
I	Jan 2020	26	28	0	44	0	61	7486.45	554
S	Feb 2020	23	25	0	30	0	41	7484.20	537
T	Mar 2020	34	36	0	38	0	38	7483.85	534
O	Apr 2020	50	49	1	73	0	73	7480.49	510
R	May 2020	153	140	1	82	17	99	7485.88	550
I	Jun 2020	139	131	1	83	3	85	7491.64	594
C	Jul 2020	46	55	1	92	1	92	7486.61	555
A	Aug 2020	26	36	1	95	0	95	7478.53	495
L	Sep 2020	23	26	1	80	2	82	7470.42	439
	WY 2020	608	620	8	805	26	909		
*	Oct 2020	20	21	0	66	0	66	7463.47	393
	Nov 2020	20	21	0	20	0	20	7463.66	394
	Dec 2020	19	21	0	21	0	21	7463.64	394
	Jan 2021	17	19	0	21	0	21	7463.37	392
	Feb 2021	15	17	0	17	0	17	7463.36	392
	Mar 2021	25	27	0	0	19	19	7464.56	400
	Apr 2021	50	54	1	0	40	40	7466.66	414
	May 2021	145	139	1	6	39	45	7480.10	507
	Jun 2021	195	183	1	91	0	91	7492.07	598
	Jul 2021	75	85	1	76	0	76	7492.94	604
	Aug 2021	44	56	1	80	0	80	7489.71	579
	Sep 2021	25	38	1	70	0	70	7485.29	545
	WY 2021	650	681	8	469	98	567		
	Oct 2021	29	36	0	68	0	68	7480.90	513
	Nov 2021	28	28	0	14	0	14	7482.84	527
	Dec 2021	27	27	0	15	0	15	7484.41	539
	Jan 2022	25	26	0	15	0	15	7485.76	549
	Feb 2022	23	24	0	14	0	14	7487.05	559
	Mar 2022	37	38	0	17	0	17	7489.78	580
	Apr 2022	78	79	1	38	0	38	7494.87	620
	May 2022	199	184	1	207	6	213	7491.09	590
	Jun 2022	262	236	1	40	0	40	7514.38	784
	Jul 2022	98	99	2	80	0	80	7516.24	801
	Aug 2022	59	66	1	83	0	83	7514.21	783
	Sep 2022	38	46	1	81	0	81	7510.10	747
	WY 2022	902	888	9	672	6	678		
	Oct 2022	38	43	1	81	0	81	7505.59	708

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Morrow Point Reservoir



— BUREAU OF —
RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Nov 2019	31	72	1	72	71	0	71	7148.85	108
H	Dec 2019	30	85	1	85	85	0	85	7149.10	108
I	Jan 2020	27	61	1	61	63	0	63	7147.47	107
S	Feb 2020	23	41	0	41	41	0	41	7147.88	107
T	Mar 2020	36	38	2	40	42	0	42	7145.65	106
O	Apr 2020	54	73	4	77	76	0	76	7147.10	107
R	May 2020	162	99	10	109	109	0	109	7146.72	107
I	Jun 2020	142	85	4	89	85	0	85	7152.13	111
C	Jul 2020	47	92	1	93	93	0	93	7152.06	111
A	Aug 2020	27	95	1	96	95	0	97	7151.26	110
L	Sep 2020	23	82	1	83	80	0	84	7149.87	109
	WY 2020	632	909	24	933	917	0	933		
*	Oct 2020	21	66	1	67	66	0	66	7151.06	110
	Nov 2020	22	20	2	22	24	0	24	7147.94	107
	Dec 2020	20	21	1	22	22	0	22	7147.94	107
	Jan 2021	18	21	1	22	22	0	22	7147.94	107
	Feb 2021	17	17	2	19	19	0	19	7147.94	107
	Mar 2021	28	19	3	22	22	0	22	7147.94	107
	Apr 2021	60	40	10	50	50	0	50	7147.94	107
	May 2021	160	45	15	60	60	0	60	7147.94	107
	Jun 2021	205	91	10	101	101	0	101	7147.94	107
	Jul 2021	80	76	5	81	81	0	81	7147.94	107
	Aug 2021	46	80	2	82	82	0	82	7147.94	107
	Sep 2021	28	70	3	73	73	0	73	7147.94	107
	WY 2021	705	567	55	622	622	0	622		
	Oct 2021	32	68	3	71	71	0	71	7147.94	107
	Nov 2021	30	14	2	16	16	0	16	7147.94	107
	Dec 2021	28	15	2	17	17	0	17	7147.94	107
	Jan 2022	27	15	2	18	18	0	18	7147.94	107
	Feb 2022	25	14	2	16	16	0	16	7147.94	107
	Mar 2022	41	17	4	20	20	0	20	7147.94	107
	Apr 2022	89	38	11	49	49	0	49	7147.94	107
	May 2022	220	213	21	234	234	0	234	7147.94	107
	Jun 2022	280	40	18	58	58	0	58	7147.94	107
	Jul 2022	102	80	4	84	84	0	84	7147.94	107
	Aug 2022	62	83	2	86	85	0	85	7147.94	107
	Sep 2022	40	81	2	84	83	0	83	7147.94	107
	WY 2022	975	678	72	750	749	0	749		
	Oct 2022	40	81	3	84	84	0	84	7147.94	107

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

Model Run ID: 3130

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Crystal Reservoir



— BUREAU OF —
RECLAMATION

		Unreg Inflow	Morrow Release	Side Inflow	Total Inflow	Power Release	Bypass Release	Total Release	Reservoir Elev End of Month	Live Storage	Tunnel Flow	Below Tunnel Flow
	Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
*	Nov 2019	35	71	4	75	76	0	76	6746.90	15	2	72
H	Dec 2019	35	85	4	89	89	0	89	6746.40	15	0	86
I	Jan 2020	31	63	4	67	58	9	67	6745.61	15	1	64
S	Feb 2020	26	41	3	44	24	19	43	6748.71	16	1	43
T	Mar 2020	42	42	6	47	45	1	46	6754.38	17	11	33
O	Apr 2020	59	76	5	81	81	0	81	6754.37	17	55	26
R	May 2020	174	109	12	121	99	14	121	6754.46	17	65	54
I	Jun 2020	148	85	6	91	92	0	93	6747.34	15	62	32
C	Jul 2020	48	93	2	95	94	0	94	6750.20	16	65	32
A	Aug 2020	27	97	1	97	97	0	97	6750.09	16	64	35
L	Sep 2020	25	84	1	85	59	27	85	6749.98	16	59	28
	WY 2020	683	933	51	984	905	72	984			447	535
*	Oct 2020	23	66	2	68	49	19	67	6751.39	16	42	25
	Nov 2020	24	24	2	26	27	0	27	6749.63	16	0	27
	Dec 2020	23	22	3	25	25	0	25	6749.63	16	0	25
	Jan 2021	21	22	3	25	25	0	25	6749.63	16	0	25
	Feb 2021	20	19	3	22	22	0	22	6749.63	16	0	22
	Mar 2021	34	22	6	28	28	0	28	6749.63	16	5	23
	Apr 2021	70	50	10	60	60	0	60	6749.63	16	42	18
	May 2021	180	60	20	80	80	0	80	6749.63	16	62	18
	Jun 2021	230	101	25	126	126	0	126	6749.63	16	61	65
	Jul 2021	85	81	5	86	86	0	86	6749.63	16	65	21
	Aug 2021	50	82	4	86	86	0	86	6749.63	16	65	21
	Sep 2021	35	73	7	80	52	28	80	6749.63	16	55	25
	WY 2021	795	622	90	712	664	47	711			397	314
	Oct 2021	39	71	7	78	78	0	78	6749.63	16	30	48
	Nov 2021	35	16	5	21	21	0	21	6749.63	16	0	21
	Dec 2021	33	17	5	22	22	0	22	6749.63	16	0	22
	Jan 2022	31	18	4	22	22	0	22	6749.63	16	0	22
	Feb 2022	29	16	4	19	19	0	19	6749.63	16	0	19
	Mar 2022	47	20	6	26	26	0	26	6749.63	16	5	21
	Apr 2022	100	49	12	60	60	0	60	6749.63	16	42	18
	May 2022	247	234	27	260	136	124	260	6749.63	16	62	198
	Jun 2022	311	58	32	89	89	0	89	6749.63	16	61	28
	Jul 2022	110	84	9	92	92	0	92	6749.63	16	65	27
	Aug 2022	68	85	7	92	92	0	92	6749.63	16	65	27
	Sep 2022	46	83	6	89	48	41	89	6749.63	16	55	34
	WY 2022	1097	749	122	871	705	165	871			385	486
	Oct 2022	47	84	6	90	90	0	90	6749.63	16	55	35

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Vallecito Reservoir



— BUREAU OF —
RECLAMATION

	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Nov 2019	4	2	7644.14	73
H	Dec 2019	4	2	7645.07	75
I	Jan 2020	5	2	7646.26	78
S	Feb 2020	4	2	7647.01	80
T	Mar 2020	6	2	7648.55	84
O	Apr 2020	16	4	7653.32	95
R	May 2020	66	37	7664.35	124
I	Jun 2020	38	48	7660.61	114
C	Jul 2020	11	38	7649.57	86
A	Aug 2020	5	36	7635.21	54
L	Sep 2020	4	28	7620.77	30
	WY 2020	167	213		
*	Oct 2020	3	2	7620.99	30
	Nov 2020	3	1	7622.03	32
	Dec 2020	3	0	7623.52	34
	Jan 2021	3	0	7624.88	36
	Feb 2021	2	0	7625.89	38
	Mar 2021	3	0	7627.41	41
	Apr 2021	10	0	7632.72	50
	May 2021	40	29	7638.19	61
	Jun 2021	50	40	7642.58	70
	Jul 2021	20	39	7633.05	51
	Aug 2021	14	36	7619.35	28
	Sep 2021	13	28	7605.00	13
	WY 2021	163	177		
	Oct 2021	11	15	7600.12	9
	Nov 2021	8	2	7607.37	15
	Dec 2021	7	2	7612.42	20
	Jan 2022	6	2	7615.78	24
	Feb 2022	5	2	7618.59	27
	Mar 2022	9	2	7623.84	35
	Apr 2022	23	2	7635.72	56
	May 2022	69	31	7652.46	93
	Jun 2022	68	43	7662.00	118
	Jul 2022	24	42	7655.06	100
	Aug 2022	17	38	7646.35	79
	Sep 2022	18	29	7641.25	67
	WY 2022	266	209		
	Oct 2022	14	17	7639.67	64

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Navajo Reservoir



— BUREAU OF —
RECLAMATION

		Mod Unreg Inflow	Azotea Tunnel Div	Reg Inflow	Evap Losses	NIIP Diversion	Total Release	Reservoir Elev End of Month	Live Storage	Farmington 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)
*	Nov 2019	15	0	13	1	0	25	6060.04	1348	46
H	Dec 2019	17	0	15	1	1	36	6058.25	1326	59
I	Jan 2020	16	0	14	1	1	31	6056.81	1308	44
S	Feb 2020	17	0	15	1	3	24	6055.76	1295	37
T	Mar 2020	35	2	30	2	5	26	6055.57	1292	35
O	Apr 2020	80	11	60	2	25	29	6055.92	1297	37
R	May 2020	199	27	142	4	37	32	6061.48	1367	122
I	Jun 2020	65	8	64	4	41	31	6060.49	1354	96
C	Jul 2020	3	1	29	4	47	47	6054.99	1285	59
A	Aug 2020	-15	0	16	3	44	52	6048.01	1202	49
L	Sep 2020	-7	0	17	2	21	47	6043.32	1149	47
	WY 2020	431	48	429	27	230	411			678
*	Oct 2020	7	0	7	1	9	43	6039.09	1103	45
	Nov 2020	14	0	12	1	0	24	6037.97	1091	32
	Dec 2020	13	0	11	1	0	20	6037.01	1081	28
	Jan 2021	12	0	10	1	0	23	6035.75	1068	30
	Feb 2021	16	0	14	1	0	17	6035.40	1064	24
	Mar 2021	45	2	41	1	6	19	6036.80	1079	30
	Apr 2021	80	7	63	2	22	21	6038.57	1097	47
	May 2021	165	20	134	3	37	18	6045.49	1174	103
	Jun 2021	155	18	127	4	53	18	6049.98	1225	113
	Jul 2021	40	1	58	4	57	29	6047.21	1193	71
	Aug 2021	32	1	53	3	48	29	6044.82	1166	57
	Sep 2021	33	1	47	2	26	25	6044.22	1159	48
	WY 2021	612	50	577	24	258	286			628
	Oct 2021	38	1	41	2	9	18	6045.23	1171	38
	Nov 2021	26	0	20	1	0	18	6045.39	1172	34
	Dec 2021	25	0	20	1	0	18	6045.48	1173	34
	Jan 2022	22	0	18	1	0	18	6045.37	1172	32
	Feb 2022	30	0	26	1	0	17	6046.13	1181	29
	Mar 2022	96	9	79	1	6	18	6050.76	1235	41
	Apr 2022	152	18	113	2	22	18	6056.65	1306	68
	May 2022	266	35	193	4	37	26	6066.53	1433	166
	Jun 2022	212	27	160	5	54	30	6071.80	1506	182
	Jul 2022	48	2	64	5	58	31	6069.67	1476	90
	Aug 2022	30	2	49	4	48	31	6067.16	1442	64
	Sep 2022	41	2	51	3	26	58	6064.44	1405	88
	WY 2022	987	96	834	28	260	300			869
	Oct 2022	43	0	47	2	9	31	6064.80	1410	54

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

Model Run ID: 3130

Processed On: 11/5/2020 3:58:22PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Lake Powell



— BUREAU OF —
RECLAMATION

		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)
*	Nov 2019	404	466	34	626	0	626	3611.23	5082	12855	630
H	Dec 2019	353	506	27	750	0	750	3608.74	5062	12604	756
I	Jan 2020	277	419	8	760	0	760	3605.48	5036	12281	768
S	Feb 2020	288	393	9	675	0	675	3602.72	5015	12011	687
T	Mar 2020	475	505	15	700	0	700	3600.71	4999	11818	719
O	Apr 2020	475	510	23	630	0	630	3599.32	4989	11685	652
R	May 2020	1541	1253	27	629	0	629	3605.05	5033	12239	651
I	Jun 2020	1453	1293	45	650	0	650	3610.62	5077	12793	663
C	Jul 2020	290	332	53	750	0	750	3606.25	5042	12357	774
A	Aug 2020	-20	200	51	833	0	833	3599.72	4992	11723	865
L	Sep 2020	47	267	46	602	0	602	3595.98	4963	11371	628
	WY 2020	5848	6543	372	8230	0	8230				8425
*	Oct 2020	91	246	31	640	0	640	3591.72	4932	10977	671
	Nov 2020	250	276	29	640	0	640	3587.69	4903	10613	642
	Dec 2020	250	291	23	720	0	720	3582.95	4869	10194	725
	Jan 2021	240	281	7	760	0	760	3577.70	4833	9744	771
	Feb 2021	270	294	7	680	0	680	3573.35	4804	9380	690
	Mar 2021	450	406	12	710	0	710	3569.77	4781	9089	723
	Apr 2021	600	516	18	640	0	640	3568.14	4770	8957	656
	May 2021	1350	1085	21	630	0	630	3573.08	4802	9358	646
	Jun 2021	1900	1601	36	660	0	660	3582.97	4869	10196	677
	Jul 2021	700	644	44	750	0	750	3581.37	4858	10057	774
	Aug 2021	365	472	43	800	0	800	3577.34	4831	9714	820
	Sep 2021	325	434	39	604	0	604	3575.04	4815	9520	617
	WY 2021	6791	6545	310	8234	0	8234				8413
	Oct 2021	424	465	27	480	0	480	3574.57	4812	9481	489
	Nov 2021	437	430	26	500	0	500	3573.49	4805	9392	502
	Dec 2021	364	414	21	600	0	600	3571.16	4790	9201	605
	Jan 2022	355	404	6	720	0	720	3567.45	4766	8903	731
	Feb 2022	399	425	6	640	0	640	3564.86	4750	8698	650
	Mar 2022	653	556	11	675	0	675	3563.32	4740	8578	689
	Apr 2022	945	765	17	600	0	600	3565.07	4751	8715	616
	May 2022	2213	1890	22	600	0	600	3579.41	4845	9889	616
	Jun 2022	2595	2090	38	630	0	630	3594.21	4950	11206	647
	Jul 2022	898	803	48	710	0	710	3594.65	4953	11247	734
	Aug 2022	445	530	48	760	0	760	3591.85	4933	10989	780
	Sep 2022	386	524	44	565	0	565	3590.99	4927	10911	579
	WY 2022	10114	9296	314	7480	0	7480				7638
	Oct 2022	474	539	30	640	0	640	3589.66	4917	10789	640

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

Model Run ID: 3130

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



— BUREAU OF —
RECLAMATION

	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)
*	Nov 2019	626	116	40	575	9.7	13	553	672	1083.85	10333
H	Dec 2019	750	118	37	220	3.6	7	214	708	1090.49	10899
I	Jan 2020	760	75	31	405	6.6	9	404	732	1094.68	11265
S	Feb 2020	675	68	29	557	9.7	9	550	741	1096.27	11405
T	Mar 2020	700	156	33	593	9.6	12	568	755	1098.59	11610
O	Apr 2020	630	83	41	862	14.5	18	847	742	1096.39	11415
R	May 2020	629	33	46	1057	17.2	32	1054	713	1091.32	10971
I	Jun 2020	650	19	55	973	16.4	31	973	689	1087.07	10605
C	Jul 2020	750	35	68	902	14.7	36	901	676	1084.63	10398
A	Aug 2020	833	69	72	847	13.8	36	845	673	1084.04	10349
L	Sep 2020	602	57	59	646	10.9	29	645	668	1083.21	10279
	WY 2020	8230	863	553	8263		256	8175			
*	Oct 2020	640	36	43	730	11.9	22	729	661	1081.88	10167
	Nov 2020	640	68	43	681	11.4	9	681	659	1081.61	10145
	Dec 2020	720	64	37	457	7.4	4	457	677	1084.81	10414
	Jan 2021	760	95	31	518	8.4	11	518	695	1088.07	10691
	Feb 2021	680	101	28	604	10.9	9	604	703	1089.60	10823
	Mar 2021	710	91	32	957	15.6	15	957	691	1087.39	10632
	Apr 2021	640	69	39	991	16.7	17	991	671	1083.65	10315
	May 2021	630	49	44	953	15.5	20	953	650	1079.84	9998
	Jun 2021	660	28	53	921	15.5	28	921	631	1076.26	9704
	Jul 2021	750	73	65	828	13.5	33	828	624	1075.07	9607
	Aug 2021	800	91	69	772	12.6	34	772	625	1075.26	9622
	Sep 2021	604	75	57	700	11.8	30	700	619	1074.00	9520
	WY 2021	8234	840	539	9111		231	9110			
	Oct 2021	480	75	41	515	8.4	25	515	617	1073.70	9496
	Nov 2021	500	68	41	621	10.4	15	621	611	1072.43	9393
	Dec 2021	600	64	35	529	8.6	10	529	616	1073.47	9478
	Jan 2022	720	95	29	534	8.7	11	534	631	1076.26	9704
	Feb 2022	640	101	27	536	9.7	9	536	641	1078.21	9863
	Mar 2022	675	91	30	927	15.1	15	927	628	1075.84	9669
	Apr 2022	600	69	37	957	16.1	17	957	608	1071.87	9348
	May 2022	600	49	42	939	15.3	21	939	586	1067.69	9017
	Jun 2022	630	28	50	936	15.7	29	936	564	1063.40	8683
	Jul 2022	710	73	61	828	13.5	33	828	556	1061.68	8551
	Aug 2022	760	91	65	776	12.6	34	776	554	1061.37	8528
	Sep 2022	565	75	53	683	11.5	31	683	546	1059.80	8408
	WY 2022	7480	878	513	8781		250	8781			
	Oct 2022	640	0	39	478	7.8	26	478	552	1061.01	8500

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

Model Run ID: 3130

Processed On: 11/5/2020 3:58:22PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave



— BUREAU OF —
RECLAMATION

		Hoover Release	Side Inflow	Evap Losses	Power Release	Spill Release	Total Release	Total Release	Reservoir Elev End of Month	EOM Storage
	Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 CFS)	(Ft)	(1000 Ac-Ft)
*	Nov 2019	575	-4	11	457	0	457	7.7	642.13	1675
H	Dec 2019	220	0	9	248	0	248	4.0	640.77	1638
I	Jan 2020	405	0	10	380	0	380	6.2	641.32	1653
S	Feb 2020	557	-3	10	523	0	523	9.1	642.10	1674
T	Mar 2020	593	3	13	549	0	549	8.9	643.32	1708
O	Apr 2020	862	4	17	861	0	861	14.5	642.91	1696
R	May 2020	1057	-2	22	1025	0	1025	16.7	643.17	1703
I	Jun 2020	973	-10	25	932	0	933	15.7	643.34	1708
C	Jul 2020	902	-4	25	884	0	884	14.4	642.91	1696
A	Aug 2020	847	-10	23	822	0	822	13.4	642.61	1688
L	Sep 2020	646	1	18	791	0	791	13.3	636.50	1525
	WY 2020	8263	-51	198	8063	0	8063			
*	Oct 2020	730	-12	15	725	0	725	11.8	635.65	1503
	Nov 2020	681	-19	10	590	0	590	9.9	638.00	1564
	Dec 2020	457	-12	9	409	0	409	6.7	639.01	1591
	Jan 2021	518	-21	10	412	0	412	6.7	641.80	1666
	Feb 2021	604	-10	10	584	0	584	10.5	641.80	1666
	Mar 2021	957	-12	13	898	0	898	14.6	643.05	1700
	Apr 2021	991	-12	17	964	0	964	16.2	643.00	1699
	May 2021	953	-10	22	921	0	921	15.0	643.00	1699
	Jun 2021	921	-15	25	881	0	881	14.8	643.00	1699
	Jul 2021	828	-12	25	819	0	819	13.3	642.00	1671
	Aug 2021	772	-12	23	737	0	737	12.0	642.00	1671
	Sep 2021	700	-15	18	721	0	721	12.1	640.01	1618
	WY 2021	9111	-161	197	8660	0	8660			
	Oct 2021	515	-10	15	673	0	673	10.9	633.00	1434
	Nov 2021	621	-19	10	541	0	541	9.1	635.00	1486
	Dec 2021	529	-12	9	389	0	389	6.3	639.51	1604
	Jan 2022	534	-21	10	441	0	441	7.2	641.80	1666
	Feb 2022	536	-10	10	516	0	516	9.3	641.80	1666
	Mar 2022	927	-12	13	868	0	868	14.1	643.05	1700
	Apr 2022	957	-12	17	929	0	929	15.6	643.00	1699
	May 2022	939	-10	22	907	0	907	14.7	643.00	1699
	Jun 2022	936	-15	25	895	0	895	15.0	643.00	1699
	Jul 2022	828	-12	25	819	0	819	13.3	642.00	1671
	Aug 2022	776	-12	23	742	0	742	12.1	642.00	1671
	Sep 2022	683	-15	18	704	0	704	11.8	640.01	1618
	WY 2022	8781	-159	197	8424	0	8424			
	Oct 2022	478	0	15	646	0	646	10.5	633.00	1434

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

Model Run ID: 3130

Processed On: 11/5/2020 3:58:22PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



— BUREAU OF —
RECLAMATION

	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Nov 2019	457	22	9	300	5.0	16	125	449.10	601	118	2.0
H	Dec 2019	248	20	7	159	2.6	46	72	448.16	583	109	1.8
I	Jan 2020	380	1	6	311	5.1	17	75	446.50	552	106	1.7
S	Feb 2020	523	-3	8	400	6.9	3	75	448.15	583	138	2.4
T	Mar 2020	549	15	9	455	7.4	43	94	446.04	543	198	3.2
O	Apr 2020	861	29	11	642	10.8	55	148	447.41	569	171	2.9
R	May 2020	1025	-7	13	752	12.2	61	180	447.51	571	132	2.1
I	Jun 2020	933	-5	15	700	11.8	94	103	447.85	577	142	2.4
C	Jul 2020	884	2	17	700	11.4	95	69	447.58	572	156	2.5
A	Aug 2020	822	1	17	649	10.6	79	61	448.03	581	131	2.1
L	Sep 2020	791	5	15	542	9.1	92	164	446.61	554	116	2.0
	WY 2020	8063	99	139	6041		631	1319			1585	
*	Oct 2020	725	22	12	448	7.3	94	164	447.77	576	71	1.2
	Nov 2020	590	16	9	359	6.0	96	143	447.50	571	91	1.5
	Dec 2020	409	22	7	249	4.0	99	91	446.50	552	89	1.4
	Jan 2021	412	20	6	264	4.3	97	60	446.50	552	102	1.7
	Feb 2021	584	10	8	401	7.2	40	139	446.50	552	127	2.3
	Mar 2021	898	5	9	648	10.5	86	148	446.70	555	168	2.7
	Apr 2021	964	8	11	712	12.0	57	144	448.70	593	154	2.6
	May 2021	921	15	13	693	11.3	64	154	448.70	593	127	2.1
	Jun 2021	881	11	16	710	11.9	63	90	448.70	593	140	2.4
	Jul 2021	819	18	17	703	11.4	64	54	448.00	580	151	2.5
	Aug 2021	737	17	17	618	10.1	64	54	447.50	571	116	1.9
	Sep 2021	721	17	15	530	8.9	63	120	447.50	570	112	1.9
	WY 2021	8660	181	139	6335		888	1361			1450	
	Oct 2021	673	24	12	472	7.7	64	143	447.50	571	73	1.2
	Nov 2021	541	16	9	340	5.7	63	141	447.50	570	91	1.5
	Dec 2021	389	22	7	239	3.9	75	105	446.50	552	96	1.6
	Jan 2022	441	20	6	262	4.3	88	100	446.50	552	99	1.6
	Feb 2022	516	10	8	402	7.2	16	94	446.50	552	123	2.2
	Mar 2022	868	5	9	646	10.5	88	117	446.70	555	162	2.6
	Apr 2022	929	8	11	714	12.0	47	117	448.70	593	148	2.5
	May 2022	907	15	13	706	11.5	62	129	448.70	593	124	2.0
	Jun 2022	895	11	16	724	12.2	60	94	448.70	593	138	2.3
	Jul 2022	819	18	17	700	11.4	62	59	448.00	580	148	2.4
	Aug 2022	742	17	17	625	10.2	62	53	447.50	571	114	1.9
	Sep 2022	704	17	15	531	8.9	60	106	447.50	570	110	1.9
	WY 2022	8424	183	139	6358		748	1256			1427	
	Oct 2022	646	0	12	460	7.5	62	105	447.50	571	71	1.2

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

Model Run ID: 3130

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Hoover Dam - Lake Mead



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Nov 2019	575	9.7	1083.85	10333	104	438.74	1192.0	221.9	75	386.0
H	Dec 2019	220	3.6	1090.49	10899	567	448.42	838.0	81.6	52	371.4
I	Jan 2020	405	6.6	1094.68	11265	366	451.06	1152.1	160.0	70	395.1
S	Feb 2020	557	9.7	1096.27	11405	140	452.31	962.0	224.2	57	402.6
T	Mar 2020	593	9.6	1098.59	11610	205	450.96	1136.0	237.0	69	399.6
O	Apr 2020	862	14.5	1096.39	11415	-194	447.37	1138.0	351.1	69	407.4
R	May 2020	1057	17.2	1091.32	10971	-444	443.68	1385.0	424.4	85	401.5
I	Jun 2020	973	16.4	1087.07	10605	-366	438.87	1511.0	383.4	94	393.9
C	Jul 2020	902	14.7	1084.63	10398	-207	437.22	1502.1	351.6	94	389.9
A	Aug 2020	847	13.8	1084.04	10349	-50	438.65	1502.1	328.8	94	388.2
L	Sep 2020	646	10.9	1083.21	10279	-70	441.07	1264.0	250.3	81	387.6
WY 2020		8263							3256.3		
*	Oct 2020	730	11.9	1081.88	10167	-111	439.76	1154.0	284.7	74	390.2
	Nov 2020	681	11.4	1081.61	10145	-23	433.90	1303.0	263.7	85	387.4
	Dec 2020	457	7.4	1084.81	10414	269	434.04	1363.1	175.7	87	384.4
	Jan 2021	518	8.4	1088.07	10691	277	436.69	1291.1	203.5	80	392.7
	Feb 2021	604	10.9	1089.60	10823	132	439.58	1104.0	237.5	67	393.1
	Mar 2021	957	15.6	1087.39	10632	-190	438.56	1133.1	385.7	70	402.9
	Apr 2021	991	16.7	1083.65	10315	-317	435.21	1109.0	394.8	70	398.3
	May 2021	953	15.5	1079.84	9998	-318	429.56	1377.0	371.1	88	389.6
	Jun 2021	921	15.5	1076.26	9704	-294	424.59	1536.0	352.5	100	382.8
	Jul 2021	828	13.5	1075.07	9607	-97	422.56	1536.0	317.3	100	383.0
	Aug 2021	772	12.6	1075.26	9622	15	422.38	1553.0	293.2	100	379.9
	Sep 2021	700	11.8	1074.00	9520	-102	422.50	1553.0	263.8	100	377.0
WY 2021		9111							3543.3		
	Oct 2021	515	8.4	1073.70	9496	-25	424.96	1398.1	196.7	91	382.2
	Nov 2021	621	10.4	1072.43	9393	-102	430.65	797.0	244.6	52	393.8
	Dec 2021	529	8.6	1073.47	9478	84	427.02	1009.0	199.1	65	376.6
	Jan 2022	534	8.7	1076.26	9704	226	427.43	913.0	202.4	58	379.2
	Feb 2022	536	9.7	1078.21	9863	159	428.34	1026.0	205.9	65	384.0
	Mar 2022	927	15.1	1075.84	9669	-194	425.56	1332.0	357.1	85	385.2
	Apr 2022	957	16.1	1071.87	9348	-321	423.61	1062.4	368.8	70	385.5
	May 2022	939	15.3	1067.69	9017	-331	417.69	1312.7	354.9	88	378.0
	Jun 2022	936	15.7	1063.40	8683	-334	412.20	1472.4	348.0	100	371.9
	Jul 2022	828	13.5	1061.68	8551	-132	409.56	1462.8	307.3	100	370.9
	Aug 2022	776	12.6	1061.37	8528	-24	408.88	1461.0	285.6	100	367.8
	Sep 2022	683	11.5	1059.80	8408	-120	408.59	1452.1	248.5	100	363.6
WY 2022		8781							3318.8		
	Oct 2022	478	7.8	1061.01	8500	92	411.63	1327.9	176.0	91	368.5

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

Model Run ID: 3130

Processed On: 11/5/2020 3:58:22PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Davis Dam - Lake Mohave



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Nov 2019	457	7.7	642.13	1675	103	143.18	153.0	55.6	60	121.7
H	Dec 2019	248	4.0	640.77	1638	-37	141.96	156.3	30.5	61	123.3
I	Jan 2020	380	6.2	641.32	1653	15	141.95	156.3	49.9	61	131.3
S	Feb 2020	523	9.1	642.10	1674	21	139.59	156.5	68.9	61	131.6
T	Mar 2020	549	8.9	643.32	1708	33	142.51	164.5	67.4	65	122.6
O	Apr 2020	861	14.5	642.91	1696	-11	137.62	253.3	109.7	99	127.4
R	May 2020	1025	16.7	643.17	1703	7	140.19	255.0	128.5	100	125.3
I	Jun 2020	932	15.7	643.34	1708	5	140.36	255.0	117.3	100	125.8
C	Jul 2020	884	14.4	642.91	1696	-12	139.88	255.0	112.0	100	126.7
A	Aug 2020	822	13.4	642.61	1688	-8	141.10	255.0	104.0	100	126.5
L	Sep 2020	791	13.3	636.50	1525	-163	133.32	255.0	98.1	100	123.9
WY 2020		8063							1015.1		
*	Oct 2020	725	11.8	635.65	1503	-22	134.17	215.5	91.1	85	125.5
	Nov 2020	590	9.9	638.00	1564	62	135.01	168.3	71.8	66	121.6
	Dec 2020	409	6.7	639.01	1591	27	138.12	153.0	50.9	60	124.4
	Jan 2021	412	6.7	641.80	1666	75	139.99	153.0	52.0	60	126.1
	Feb 2021	584	10.5	641.80	1666	0	139.73	156.6	73.5	61	125.9
	Mar 2021	898	14.6	643.05	1700	34	138.81	205.7	112.3	81	125.1
	Apr 2021	964	16.2	643.00	1699	-1	138.87	214.2	120.6	84	125.1
	May 2021	921	15.0	643.00	1699	0	139.26	255.0	115.5	100	125.5
	Jun 2021	881	14.8	643.00	1699	0	139.32	255.0	110.5	100	125.5
	Jul 2021	819	13.3	642.00	1671	-27	139.35	255.0	102.8	100	125.5
	Aug 2021	737	12.0	642.00	1671	0	139.35	255.0	92.5	100	125.5
	Sep 2021	721	12.1	640.01	1618	-54	138.31	255.0	89.8	100	124.6
WY 2021		8660							1083.2		
	Oct 2021	673	10.9	633.00	1434	-183	134.27	227.0	81.4	89	121.0
	Nov 2021	541	9.1	635.00	1486	51	132.52	159.8	64.6	63	119.4
	Dec 2021	389	6.3	639.51	1604	118	137.02	154.7	48.0	61	123.4
	Jan 2022	441	7.2	641.80	1666	62	140.02	156.3	55.7	61	126.2
	Feb 2022	516	9.3	641.80	1666	0	140.24	156.6	65.2	61	126.3
	Mar 2022	868	14.1	643.05	1700	34	138.99	194.1	108.7	76	125.2
	Apr 2022	929	15.6	643.00	1699	-1	139.06	249.9	116.4	98	125.3
	May 2022	907	14.7	643.00	1699	0	139.34	255.0	113.8	100	125.5
	Jun 2022	895	15.0	643.00	1699	0	139.24	255.0	112.3	100	125.4
	Jul 2022	819	13.3	642.00	1671	-27	139.35	255.0	102.8	100	125.5
	Aug 2022	742	12.1	642.00	1671	0	139.32	255.0	93.1	100	125.5
	Sep 2022	704	11.8	640.01	1618	-54	138.42	255.0	87.8	100	124.7
WY 2022		8424							1049.8		
	Oct 2022	646	10.5	633.00	1434	-183	134.44	227.0	78.3	89	121.1

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Parker Dam - Lake Havasu



— BUREAU OF —
RECLAMATION

	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Nov 2019	300	5.0	449.10	601	25	84.29	92.0	20.2	77	67.2
H	Dec 2019	159	2.6	448.16	583	-18	81.68	100.6	9.4	84	59.1
I	Jan 2020	311	5.1	446.50	552	-31	80.47	97.7	22.0	81	70.7
S	Feb 2020	400	6.9	448.15	583	31	82.44	97.2	28.0	81	70.0
T	Mar 2020	455	7.4	446.04	543	-39	78.08	120.0	30.0	100	65.9
O	Apr 2020	642	10.8	447.41	569	25	81.56	120.0	44.4	100	69.2
R	May 2020	752	12.2	447.51	571	2	77.41	120.0	51.8	100	68.9
I	Jun 2020	700	11.8	447.85	577	6	79.56	120.0	48.8	100	69.7
C	Jul 2020	700	11.4	447.58	572	-5	81.49	120.0	48.6	100	69.3
A	Aug 2020	649	10.6	448.03	581	8	80.50	120.0	45.0	100	69.3
L	Sep 2020	542	9.1	446.61	554	-27	78.70	120.0	37.7	100	69.6
WY 2020		6041							416.0		
*	Oct 2020	448	7.3	447.77	576	22	81.85	90.0	32.2	75	71.8
	Nov 2020	359	6.0	447.50	571	-5	76.42	90.0	23.4	75	65.2
	Dec 2020	249	4.0	446.50	552	-19	74.56	116.1	15.4	97	62.1
	Jan 2021	264	4.3	446.50	552	0	75.07	94.8	16.6	79	62.8
	Feb 2021	401	7.2	446.50	552	0	75.21	92.1	26.0	77	65.0
	Mar 2021	648	10.5	446.70	555	4	74.01	120.0	42.0	100	64.8
	Apr 2021	712	12.0	448.70	593	38	75.08	120.0	46.9	100	65.8
	May 2021	693	11.3	448.70	593	0	76.05	120.0	46.0	100	66.5
	Jun 2021	710	11.9	448.70	593	0	76.05	120.0	47.3	100	66.6
	Jul 2021	703	11.4	448.00	580	-13	75.71	120.0	46.6	100	66.2
	Aug 2021	618	10.1	447.50	571	-9	75.13	120.0	40.5	100	65.5
	Sep 2021	530	8.9	447.50	570	0	74.89	120.0	34.5	100	65.1
WY 2021		6335							417.3		
	Oct 2021	472	7.7	447.50	571	0	76.14	92.9	31.0	77	65.8
	Nov 2021	340	5.7	447.50	570	0	76.19	92.0	22.0	77	64.8
	Dec 2021	239	3.9	446.50	552	-19	74.82	110.3	14.8	92	62.0
	Jan 2022	262	4.3	446.50	552	0	75.12	93.9	16.5	78	62.8
	Feb 2022	402	7.2	446.50	552	0	75.15	93.2	26.1	78	65.0
	Mar 2022	646	10.5	446.70	555	4	74.01	120.0	41.8	100	64.8
	Apr 2022	714	12.0	448.70	593	38	75.08	120.0	47.0	100	65.8
	May 2022	706	11.5	448.70	593	0	76.05	120.0	46.9	100	66.5
	Jun 2022	724	12.2	448.70	593	0	76.05	120.0	48.2	100	66.6
	Jul 2022	700	11.4	448.00	580	-13	75.71	120.0	46.3	100	66.2
	Aug 2022	625	10.2	447.50	571	-9	75.13	120.0	41.0	100	65.5
	Sep 2022	531	8.9	447.50	570	0	74.89	120.0	34.5	100	65.1
WY 2022		6358							416.2		
	Oct 2022	460	7.5	447.50	571	0	76.19	91.9	30.3	77	65.8

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Upper Basin Power



— BUREAU OF —
RECLAMATION

		Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
	Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
*	Nov 2019	280	31	22	25	14	5
H	Dec 2019	336	51	26	30	17	5
I	Jan 2020	338	51	18	22	11	5
S	Feb 2020	296	47	12	14	4	4
T	Mar 2020	307	46	11	13	7	4
	Winter 2020	1838	258	115	131	71	28
O	Apr 2020	276	44	21	25	16	5
R	May 2020	276	37	23	37	19	7
I	Jun 2020	290	58	24	28	18	8
C	Jul 2020	335	35	27	32	18	9
A	Aug 2020	367	43	28	32	19	7
L	Sep 2020	262	37	23	28	11	2
	Summer 2020	1806	254	146	182	102	37
*	Oct 2020	277	24	18	22	9	0
	Nov 2020	262	18	5	9	5	4
	Dec 2020	291	21	6	8	4	4
	Jan 2021	304	21	6	8	4	3
	Feb 2021	269	19	5	7	4	3
	Mar 2021	278	22	0	8	5	3
	Winter 2021	1681	124	39	61	31	17
	Apr 2021	250	21	0	18	10	3
	May 2021	247	24	2	21	14	4
	Jun 2021	263	42	26	36	21	7
	Jul 2021	301	22	23	29	15	8
	Aug 2021	319	31	24	29	15	5
	Sep 2021	240	30	21	26	9	2
	Summer 2021	1619	170	95	159	83	28
	Oct 2021	190	21	20	25	13	5
	Nov 2021	198	22	4	6	4	5
	Dec 2021	236	34	4	6	4	5
	Jan 2022	280	34	4	6	4	5
	Feb 2022	248	31	4	6	3	4
	Mar 2022	260	28	5	7	4	4
	Winter 2022	1412	169	41	56	32	27
	Apr 2022	231	27	11	17	10	4
	May 2022	235	26	61	83	23	5
	Jun 2022	255	61	12	21	15	7
	Jul 2022	292	22	25	30	16	8
	Aug 2022	312	31	26	30	16	5
	Sep 2022	231	34	25	30	8	5
	Summer 2022	1324	167	136	181	80	30
	Oct 2022	262	27	25	30	15	5

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

November 2020 24-Month Study

Most Probable Inflow*

Flood Control Criteria - Beginning of Month Conditions



— BUREAU OF —
RECLAMATION

Date	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Lake Powell KAF	Upper Basin Total KAF	Lake Mead KAF	Total KAF	Flaming Gorge KAF	Blue Mesa KAF	Navajo KAF	Tot or Max Allow KAF	Lake Powell KAF	Lake Mead KAF	Total KAF	BOM Space Required KAF	Mead Sched Rel KAF	Mead FC Rel KAF	Sys Cont MAF
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Nov 2020	685	437	593	13345	15060	17210	32269	685	437	593	1715	13345	17210	32269	3810	681	0	28.0
Dec 2020	703	435	605	13709	15452	17232	32684	703	435	605	1743	13709	17232	32684	4580	457	0	27.8
Jan 2021	736	435	615	14128	15915	16963	32878	736	435	615	1787	14128	16963	32878	5350	518	0	27.6
								**** EFFECTIVE SPACE ****										
Jan 2021	736	435	615	14128	15915	16963	32878	324	213	302	840	14128	16963	31931	5350	518	0	27.6
Feb 2021	765	437	628	14578	16409	16686	33095	351	217	315	882	14578	16686	32146	1500	604	0	27.4
Mar 2021	788	437	632	14942	16799	16554	33353	371	219	318	908	14942	16554	32404	1500	957	0	27.0
Apr 2021	774	430	617	15233	17054	16745	33799	352	213	296	862	15233	16745	32839	1500	991	0	26.6
May 2021	738	416	599	15365	17117	17062	34178	309	203	254	766	15365	17062	33192	1500	953	0	26.9
Jun 2021	672	323	522	14964	16481	17379	33860	234	103	138	475	14964	17379	32818	1500	921	0	27.8
Jul 2021	555	232	471	14126	15383	17673	33056	105	-1	29	132	14126	17673	31931	1500	828	0	27.5
								**** CREDITABLE SPACE ****										
Aug 2021	468	225	503	14265	15461	17770	33231	468	225	503	1196	14265	17770	33231	1500	772	0	27.1
Sep 2021	507	250	530	14608	15896	17755	33651	507	250	530	1288	14608	17755	33651	2270	700	0	26.6
Oct 2021	563	284	537	14802	16186	17857	34043	563	284	537	1384	14802	17857	34043	3040	515	0	26.3
Nov 2021	583	317	525	14841	16266	17881	34148	583	317	525	1425	14841	17881	34148	3810	621	0	26.2
Dec 2021	603	303	524	14930	16359	17984	34343	603	303	524	1429	14930	17984	34343	4580	529	0	26.1
Jan 2022	673	291	523	15121	16607	17899	34507	673	291	523	1486	15121	17899	34507	5350	534	0	26.1
								**** EFFECTIVE SPACE ****										
Jan 2022	673	291	523	15121	16607	17899	34507	417	291	496	1205	15121	17899	34225	5350	534	0	26.1
Feb 2022	736	281	524	15419	16960	17673	34633	479	281	497	1256	15419	17673	34349	1500	536	0	26.0
Mar 2022	786	271	515	15624	17196	17514	34710	527	271	488	1285	15624	17514	34423	1500	927	0	25.8
Apr 2022	778	250	461	15744	17233	17708	34941	514	250	427	1190	15744	17708	34642	1500	957	0	25.8
May 2022	738	210	390	15607	16946	18029	34974	468	210	331	1009	15607	18029	34645	1500	939	0	26.9
Jun 2022	582	240	263	14433	15518	18360	33878	300	240	163	703	14433	18360	33496	1500	936	0	28.3
Jul 2022	418	45	190	13116	13769	18694	32464	119	18	33	170	13116	18694	31981	1500	828	0	28.3
								**** CREDITABLE SPACE ****										
Aug 2022	318	28	220	13075	13642	18826	32467	318	28	220	566	13075	18826	32467	1500	776	0	27.9
Sep 2022	342	47	254	13333	13976	18849	32825	342	47	254	643	13333	18849	32825	2270	683	0	27.5
Oct 2022	403	83	291	13411	14188	18969	33158	403	83	291	777	13411	18969	33158	3040	478	0	27.2

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