To: All Annual Operating Plan Recipients

From: Michael Bernardo, P.E.
River Operations Manager
Boulder Canyon Operations Office
Interior Region 8: Lower Colorado Basin
P.O. Box 61470
Boulder City, NV 89006-1470
Phone: 702-293-8111

From: Paul Davidson
Chief, Water Management Group
Water and Power Division, Power Office
Interior Region 7: Upper Colorado Basin
125 South State Street, Room 8100
Salt Lake City, UT 84138-5571
Phone: 801-524-3642

In addition to the October 2021 24-Month Study based on the Most Probable inflow scenario, Reclamation has conducted model runs in October 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. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

The projected Lake Powell and Lake Mead elevations resulting from these three inflow scenarios are summarized in graphs located at either of the following links:

https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf, or
https://www.usbr.gov/lc/region/g4000/24mo/2021/October-Chart.pdf.

The water year 2022 unregulated inflow in the Probable Minimum inflow scenario is 4.00 million acre-feet (maf), or 47% of average[1]. Consistent with the Interim Guidelines, the October Probable Minimum 24-Month Study includes release volumes from Glen Canyon Dam of 7.48 maf in water year 2022 and 7.00 maf in water year 2023. Under the probable minimum scenario, Lake Powell's elevation is projected to be 3,482.53 feet on December 31, 2022. With intervening flows between Lake Powell and Lake Mead of 0.764 maf in calendar year 2022, Lake Mead's elevation is projected to be 1,047.86 feet on December 31, 2022.

The 2021 AOP is available online at:	https://www.usbr.gov/lc/region/g4000/aop/AOP21.pdf.
The Draft 2022 AOP is available online at:	https://www.usbr.gov/lc/region/g4000/AOP2022/2022%20AOP_2021-08-26_Consultation-3.pdf.
The Interim Guidelines are available online at:	https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf.
The Colorado River DCPs are available online at:	https://www.usbr.gov/dcp/finaldocs.html.
The Upper Basin Hydrology Summary is available online at:	https://www.usbr.gov/uc/water/crsp/studies/24Month_10_ucb.pdf.

[1]This October 2021 24-Month Study includes the Colorado Basin River Forecast Center shift to the 1991-2020 period of record. All statistics shown in the study refer to this new 30-year period of record.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum Probable Inflow*

Fontenelle Reservoir

	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2020	32	1	0	55	55	6490.95	225
H	Nov 2020	33	1	17	35	52	6487.89	205
I	Dec 2020	27	1	50	1	51	6483.85	180
S	Jan 2021	25	1	48	2	51	6479.03	153
T	Feb 2021	24	0	46	0	46	6474.49	132
O	Mar 2021	40	0	51	0	51	6472.03	121
R	Apr 2021	54	1	49	0	49	6473.03	125
I	May 2021	76	1	49	0	49	6478.67	152
C	Jun 2021	143	2	42	0	42	6494.76	251
A	Jul 2021	45	2	43	0	43	6494.70	250
L	Aug 2021	35	2	41	0	41	6493.52	242
*	Sep 2021	26	2	36	0	36	6491.82	230
	WY 2021	**561**	**14**	**471**	**94**	**566**		
	Oct 2021	29	1	24	13	37	6490.43	230
	Nov 2021	30	1	49	0	49	6487.43	210
	Dec 2021	25	1	51	0	51	6483.14	184
	Jan 2022	23	1	51	0	51	6477.98	156
	Feb 2022	21	0	46	0	46	6472.83	131
	Mar 2022	34	0	44	0	44	6470.60	121
	Apr 2022	51	1	30	0	30	6475.14	141
	May 2022	67	1	31	0	31	6481.88	177
	Jun 2022	99	2	30	0	30	6492.38	243
	Jul 2022	47	2	43	0	43	6492.56	244
	Aug 2022	26	2	43	0	43	6489.69	225
	Sep 2022	23	2	38	4	42	6486.63	205
	WY 2022	**475**	**14**	**478**	**17**	**495**		
	Oct 2022	32	1	43	0	43	6484.68	193
	Nov 2022	35	1	48	0	48	6482.53	180
	Dec 2022	31	1	49	0	49	6479.15	162
	Jan 2023	29	0	49	0	49	6474.92	140
	Feb 2023	26	0	44	0	44	6470.78	122
	Mar 2023	43	0	51	0	51	6468.69	113
	Apr 2023	66	1	58	0	58	6470.38	120
	May 2023	117	1	68	0	68	6480.44	169
	Jun 2023	202	2	76	0	76	6499.31	293
	Jul 2023	91	3	63	0	63	6502.63	318
	Aug 2023	42	2	61	0	61	6499.77	296
	Sep 2023	32	2	60	0	60	6495.81	267
	WY 2023	**746**	**14**	**670**	**0**	**670**		

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

Model Run ID: 3165

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 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 2020	25	50	7	64	0	64	128	6025.38	3174	85
H	Nov 2020	37	55	4	54	0	54	128	6025.33	3172	82
I	Dec 2020	24	48	2	62	0	62	127	6024.91	3157	88
S	Jan 2021	31	57	2	62	0	62	127	6024.75	3151	88
T	Feb 2021	31	52	2	56	0	56	127	6024.59	3145	79
O	Mar 2021	68	79	3	52	0	52	127	6025.21	3168	96
R	Apr 2021	72	67	5	51	0	51	128	6025.49	3178	112
I	May 2021	96	72	8	95	0	95	127	6024.69	3149	296
C	Jun 2021	148	46	10	80	0	80	125	6023.52	3106	205
A	Jul 2021	48	43	12	65	0	65	124	6022.61	3073	80
L	Aug 2021	44	50	12	98	0	98	121	6021.02	3016	111
*	Sep 2021	27	37	10	96	0	96	119	6019.15	2950	107
	WY 2021	**650**	**657**	**77**	**835**	**0**	**835**				**1430**
	Oct 2021	32	40	7	76	0	76	117	6017.97	2909	98
	Nov 2021	36	55	3	51	0	51	117	6018.01	2910	73
	Dec 2021	25	51	2	52	0	52	117	6017.92	2907	71
	Jan 2022	39	67	2	52	0	52	118	6018.29	2920	77
	Feb 2022	45	69	2	47	0	47	118	6018.84	2939	72
	Mar 2022	69	79	3	49	0	49	119	6019.57	2964	105
	Apr 2022	86	65	5	48	0	48	120	6019.92	2977	183
	May 2022	111	75	7	49	0	49	121	6020.41	2994	376
	Jun 2022	129	60	10	92	0	92	119	6019.28	2954	218
	Jul 2022	57	53	12	57	0	57	118	6018.85	2939	65
	Aug 2022	24	41	12	73	0	73	117	6017.66	2898	77
	Sep 2022	26	44	10	74	0	74	115	6016.56	2860	77
	WY 2022	**680**	**700**	**73**	**720**	**0**	**720**				**1491**
	Oct 2022	38	49	7	51	0	51	115	6016.34	2852	65
	Nov 2022	42	54	3	48	0	48	115	6016.43	2855	71
	Dec 2022	31	49	2	49	0	49	115	6016.39	2854	74
	Jan 2023	39	59	2	49	0	49	115	6016.63	2862	74
	Feb 2023	40	59	2	44	0	44	116	6016.97	2874	70
	Mar 2023	70	78	3	49	0	49	117	6017.69	2899	115
	Apr 2023	93	85	4	48	0	48	118	6018.61	2931	212
	May 2023	169	120	7	92	0	92	119	6019.17	2950	504
	Jun 2023	250	124	10	89	0	89	120	6019.86	2975	315
	Jul 2023	91	63	13	61	0	61	119	6019.57	2964	80
	Aug 2023	43	63	12	89	0	89	118	6018.52	2928	100
	Sep 2023	33	60	10	87	0	87	116	6017.49	2892	94
	WY 2023	**939**	**862**	**73**	**756**	**0**	**756**				**1772**

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 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 2020	4	5	9308.95	68
H	Nov 2020	4	5	9308.44	67
I	Dec 2020	4	5	9307.73	66
S	Jan 2021	4	5	9306.89	65
T	Feb 2021	3	5	9305.99	64
O	Mar 2021	4	5	9304.90	62
R	Apr 2021	7	5	9305.94	64
I	May 2021	16	10	9310.13	70
C	Jun 2021	24	16	9314.87	78
A	Jul 2021	11	16	9311.57	72
L	Aug 2021	7	15	9306.36	64
*	Sep 2021	4	10	9302.48	59
	WY 2021	**92**	**102**		
	Oct 2021	5	5	9302.40	58
	Nov 2021	4	5	9302.04	58
	Dec 2021	4	5	9301.33	57
	Jan 2022	4	5	9300.78	56
	Feb 2022	4	4	9300.51	56
	Mar 2022	5	5	9300.43	56
	Apr 2022	7	4	9302.69	59
	May 2022	21	9	9310.85	71
	Jun 2022	19	15	9313.07	75
	Jul 2022	7	18	9305.98	64
	Aug 2022	6	15	9299.88	55
	Sep 2022	5	12	9294.84	48
	WY 2022	**90**	**100**		
	Oct 2022	6	6	9294.56	48
	Nov 2022	4	4	9295.08	49
	Dec 2022	4	4	9295.46	49
	Jan 2023	4	4	9295.90	50
	Feb 2023	4	3	9296.26	50
	Mar 2023	4	4	9296.81	51
	Apr 2023	8	4	9299.80	55
	May 2023	23	9	9309.23	69
	Jun 2023	28	15	9317.19	82
	Jul 2023	9	18	9312.01	73
	Aug 2023	7	15	9306.72	65
	Sep 2023	6	12	9302.65	59
	WY 2023	**107**	**97**		

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 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 2020	20	22	0	66	0	66	7463.47	389
H	Nov 2020	25	25	0	18	0	18	7464.59	396
I	Dec 2020	21	22	0	21	0	21	7464.73	397
S	Jan 2021	22	23	0	19	0	19	7465.24	400
T	Feb 2021	20	22	0	21	0	21	7465.37	401
O	Mar 2021	29	30	0	32	0	32	7465.07	399
R	Apr 2021	47	46	1	79	0	79	7459.68	365
I	May 2021	90	83	1	96	2	98	7457.14	350
C	Jun 2021	127	119	1	77	0	77	7463.84	391
A	Jul 2021	53	58	1	98	0	98	7457.21	350
L	Aug 2021	45	53	1	93	0	93	7450.20	310
*	Sep 2021	19	25	1	94	0	94	7436.58	241
	WY 2021	**518**	**528**	**6**	**713**	**2**	**715**		
	Oct 2021	24	24	0	61	0	61	7428.33	204
	Nov 2021	22	23	0	15	0	15	7429.93	211
	Dec 2021	19	20	0	16	0	16	7430.80	215
	Jan 2022	22	23	0	14	0	14	7432.87	224
	Feb 2022	21	22	0	12	0	12	7434.95	233
	Mar 2022	32	32	0	18	0	18	7437.97	248
	Apr 2022	50	47	0	42	0	42	7438.87	252
	May 2022	116	104	1	49	0	49	7449.47	306
	Jun 2022	86	82	1	65	0	65	7452.39	323
	Jul 2022	36	47	1	83	0	83	7445.63	286
	Aug 2022	30	39	1	79	0	79	7437.46	245
	Sep 2022	22	29	1	74	0	74	7427.34	199
	WY 2022	**480**	**490**	**5**	**527**	**0**	**527**		
	Oct 2022	27	27	0	70	0	70	7416.65	156
	Nov 2022	27	26	0	14	0	14	7419.88	169
	Dec 2022	26	25	0	14	0	14	7422.56	180
	Jan 2023	24	24	0	14	0	14	7424.85	189
	Feb 2023	23	22	0	13	0	13	7427.15	199
	Mar 2023	35	34	0	17	0	17	7430.98	215
	Apr 2023	64	60	0	40	0	40	7435.19	235
	May 2023	159	145	1	74	0	74	7449.24	305
	Jun 2023	164	151	1	58	0	58	7464.80	397
	Jul 2023	53	62	1	82	0	82	7461.45	376
	Aug 2023	42	50	1	81	0	81	7456.30	345
	Sep 2023	29	35	1	75	0	75	7449.01	304
	WY 2023	**673**	**662**	**6**	**552**	**0**	**552**		

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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)
*	Oct 2020	21	66	1	67	66	0	66	7151.06	110
H	Nov 2020	27	18	2	20	23	0	23	7147.26	107
I	Dec 2020	24	21	3	24	23	0	23	7148.38	108
S	Jan 2021	23	19	1	21	23	0	23	7145.78	106
T	Feb 2021	21	21	1	22	21	0	21	7146.38	106
O	Mar 2021	30	32	1	33	35	0	35	7143.99	104
R	Apr 2021	49	79	1	81	82	0	82	7141.50	103
I	May 2021	93	98	4	102	91	0	91	7155.08	113
C	Jun 2021	132	77	4	81	85	0	85	7150.02	109
A	Jul 2021	54	98	1	99	97	0	97	7152.51	111
L	Aug 2021	46	93	1	93	94	0	94	7150.92	110
*	Sep 2021	19	94	0	94	93	0	93	7152.50	111
	WY 2021	**539**	**715**	**21**	**736**	**734**	**0**	**734**		
	Oct 2021	26	61	2	63	62	0	62	7153.73	112
	Nov 2021	23	15	1	16	16	0	16	7153.73	112
	Dec 2021	20	16	1	17	17	0	17	7153.73	112
	Jan 2022	25	14	3	16	16	0	16	7153.73	112
	Feb 2022	24	12	3	15	15	0	15	7153.73	112
	Mar 2022	35	18	3	21	21	0	21	7153.73	112
	Apr 2022	57	42	7	49	49	0	49	7153.73	112
	May 2022	130	49	13	62	62	0	62	7153.73	112
	Jun 2022	93	65	7	72	72	0	72	7153.72	112
	Jul 2022	36	83	0	83	83	0	83	7153.73	112
	Aug 2022	33	79	3	82	82	0	82	7153.73	112
	Sep 2022	25	74	2	76	76	0	76	7153.73	112
	WY 2022	**525**	**527**	**45**	**572**	**570**	**0**	**570**		
	Oct 2022	29	70	3	72	72	0	72	7153.73	112
	Nov 2022	29	14	2	16	16	0	16	7153.73	112
	Dec 2022	27	14	1	16	16	0	16	7153.73	112
	Jan 2023	26	14	2	16	16	0	16	7153.73	112
	Feb 2023	25	13	2	14	14	0	14	7153.73	112
	Mar 2023	37	17	2	19	19	0	19	7153.73	112
	Apr 2023	72	40	9	49	49	0	49	7153.73	112
	May 2023	176	74	17	91	91	0	91	7153.73	112
	Jun 2023	173	58	9	66	66	0	66	7153.72	112
	Jul 2023	54	82	1	83	83	0	83	7153.73	112
	Aug 2023	43	81	1	82	82	0	82	7153.73	112
	Sep 2023	30	75	1	76	76	0	76	7153.73	112
	WY 2023	**721**	**552**	**48**	**601**	**600**	**0**	**600**		

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum Probable Inflow*

Crystal Reservoir

	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Oct 2020	23	66	2	68	49	19	67	6751.39	16	42	25
H	Nov 2020	29	23	2	25	25	0	25	6751.22	16	0	24
I	Dec 2020	27	23	2	26	25	0	26	6751.57	17	1	24
S	Jan 2021	25	23	2	25	25	0	25	6748.38	16	0	24
T	Feb 2021	24	21	2	23	23	0	23	6748.83	16	0	22
O	Mar 2021	32	35	2	37	37	0	37	6748.74	16	11	25
R	Apr 2021	54	82	6	88	86	0	87	6752.67	17	51	36
I	May 2021	103	91	10	101	100	1	100	6753.35	17	64	37
C	Jun 2021	140	85	9	94	94	0	94	6751.32	16	62	33
A	Jul 2021	60	97	6	103	103	0	103	6750.41	16	65	41
L	Aug 2021	52	94	6	100	100	0	100	6751.69	17	65	38
*	Sep 2021	23	93	3	96	95	0	96	6752.92	17	61	36
	WY 2021	**591**	**734**	**52**	**785**	**762**	**22**	**784**			**423**	**365**
	Oct 2021	30	62	4	66	56	10	66	6753.04	17	30	36
	Nov 2021	26	16	3	19	19	0	19	6753.04	17	0	19
	Dec 2021	23	17	3	20	20	0	20	6753.04	17	0	20
	Jan 2022	29	16	4	20	20	0	20	6753.04	17	0	20
	Feb 2022	27	15	3	18	18	0	18	6753.04	17	0	18
	Mar 2022	39	21	4	25	25	0	25	6753.04	17	5	20
	Apr 2022	66	49	9	58	43	15	58	6753.04	17	42	16
	May 2022	146	62	16	78	78	0	78	6753.04	17	62	16
	Jun 2022	103	72	10	82	82	0	82	6753.03	17	61	21
	Jul 2022	38	83	2	85	85	0	85	6753.04	17	65	20
	Aug 2022	36	82	3	85	85	0	85	6753.04	17	65	20
	Sep 2022	27	76	3	79	79	0	79	6753.04	17	55	24
	WY 2022	**590**	**570**	**65**	**635**	**609**	**25**	**634**			**385**	**249**
	Oct 2022	33	72	4	76	52	24	76	6753.04	17	55	21
	Nov 2022	32	16	4	19	19	0	19	6753.04	17	0	19
	Dec 2022	31	16	4	20	20	0	20	6753.04	17	0	20
	Jan 2023	30	16	4	20	20	0	20	6753.04	17	0	20
	Feb 2023	28	14	4	18	18	0	18	6753.04	17	0	18
	Mar 2023	42	19	5	25	25	0	25	6753.04	17	5	20
	Apr 2023	82	49	10	58	58	0	58	6753.04	17	42	16
	May 2023	195	91	19	110	110	0	110	6753.04	17	62	48
	Jun 2023	190	66	17	83	83	0	83	6753.03	17	61	22
	Jul 2023	57	83	3	86	86	0	86	6753.04	17	65	21
	Aug 2023	48	82	5	86	86	0	86	6753.04	17	65	21
	Sep 2023	34	76	4	80	80	0	80	6753.04	17	55	25
	WY 2023	**803**	**600**	**82**	**682**	**658**	**24**	**682**			**410**	**272**

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

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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)
*	Oct 2020	3	2	7620.99	30
H	Nov 2020	3	0	7623.08	33
I	Dec 2020	3	0	7624.62	36
S	Jan 2021	3	0	7626.24	38
T	Feb 2021	3	0	7627.63	41
O	Mar 2021	4	0	7629.73	44
R	Apr 2021	14	1	7636.28	57
I	May 2021	50	30	7645.56	77
C	Jun 2021	44	39	7647.63	81
A	Jul 2021	19	36	7639.49	63
L	Aug 2021	13	34	7628.72	43
*	Sep 2021	7	26	7615.74	24
	WY 2021	**166**	**169**		
	Oct 2021	7	16	7606.82	15
	Nov 2021	5	2	7610.17	18
	Dec 2021	5	2	7612.67	20
	Jan 2022	6	2	7615.96	24
	Feb 2022	5	2	7618.44	27
	Mar 2022	6	2	7621.49	31
	Apr 2022	17	2	7630.66	46
	May 2022	46	21	7642.87	71
	Jun 2022	22	29	7639.16	63
	Jul 2022	8	28	7628.33	42
	Aug 2022	10	26	7616.90	25
	Sep 2022	8	21	7604.13	12
	WY 2022	**143**	**152**		
	Oct 2022	8	12	7598.50	8
	Nov 2022	7	2	7605.47	13
	Dec 2022	6	2	7610.39	18
	Jan 2023	6	2	7614.13	22
	Feb 2023	5	2	7617.12	26
	Mar 2023	8	2	7621.60	32
	Apr 2023	19	2	7632.24	49
	May 2023	56	28	7645.64	77
	Jun 2023	40	38	7645.94	78
	Jul 2023	13	37	7634.22	53
	Aug 2023	12	34	7620.48	30
	Sep 2023	11	27	7606.39	14
	WY 2023	**192**	**188**		

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum Probable Inflow*

Navajo Reservoir

— BUREAU OF —
RECLAMATION

	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azotea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
*	Oct 2020	6	0	6	1	9	42	6039.09	1103	42
H	Nov 2020	17	0	14	1	0	22	6038.29	1094	37
I	Dec 2020	10	0	7	1	0	22	6036.88	1079	33
S	Jan 2021	12	0	10	1	0	24	6035.47	1065	33
T	Feb 2021	13	0	11	1	1	22	6034.25	1052	32
O	Mar 2021	23	1	19	1	4	24	6033.31	1042	32
R	Apr 2021	82	13	57	2	20	32	6033.54	1045	31
I	May 2021	169	25	125	3	34	27	6039.27	1105	65
C	Jun 2021	103	18	78	4	44	21	6040.14	1114	89
A	Jul 2021	24	2	40	4	45	35	6035.96	1070	57
L	Aug 2021	5	1	24	3	39	41	6030.18	1010	48
*	Sep 2021	-2	0	17	2	25	50	6024.10	951	49
	WY 2021	**463**	**60**	**407**	**23**	**222**	**361**			**549**
	Oct 2021	18	0	27	1	9	34	6022.20	886	46
	Nov 2021	19	0	16	1	0	31	6020.46	870	42
	Dec 2021	17	0	14	0	0	32	6018.49	853	42
	Jan 2022	30	0	26	0	0	18	6019.32	860	31
	Feb 2022	28	0	25	1	0	14	6020.47	870	25
	Mar 2022	55	3	48	1	3	17	6023.38	897	30
	Apr 2022	85	8	63	2	18	18	6025.95	921	48
	May 2022	145	17	103	3	33	15	6031.41	973	106
	Jun 2022	30	1	36	3	49	41	6025.48	916	98
	Jul 2022	-4	1	16	3	53	58	6014.55	819	75
	Aug 2022	-19	0	-2	2	44	45	6003.10	725	63
	Sep 2022	-5	0	8	2	23	41	5995.55	667	54
	WY 2022	**400**	**30**	**379**	**19**	**233**	**364**			**659**
	Oct 2022	1	0	5	1	7	29	5991.21	635	43
	Nov 2022	15	0	10	1	0	18	5990.08	627	33
	Dec 2022	24	0	20	0	0	16	5990.60	630	30
	Jan 2023	24	0	19	0	0	20	5990.49	630	33
	Feb 2023	27	1	23	0	0	14	5991.53	637	26
	Mar 2023	75	6	63	1	5	15	5997.06	678	33
	Apr 2023	110	11	80	2	21	15	6002.66	721	55
	May 2023	190	24	138	2	35	15	6013.12	807	127
	Jun 2023	102	10	90	3	51	17	6015.44	826	116
	Jul 2023	9	0	33	3	56	49	6006.43	751	80
	Aug 2023	1	0	23	2	47	42	5997.73	683	65
	Sep 2023	13	0	28	2	26	37	5992.84	647	57
	WY 2023	**590**	**52**	**533**	**17**	**248**	**289**			**697**

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum Probable Inflow*

Lake Powell

BUREAU OF RECLAMATION

	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Oct 2020	92	246	31	640	0	640	3591.72	4932	10977	667
H	Nov 2020	261	279	29	640	0	640	3587.72	4903	10615	650
I	Dec 2020	168	217	23	719	0	719	3582.21	4864	10130	716
S	Jan 2021	198	239	7	763	0	763	3576.45	4825	9638	757
T	Feb 2021	201	235	7	675	0	675	3571.46	4792	9226	670
O	Mar 2021	297	299	11	700	0	700	3566.71	4761	8844	698
R	Apr 2021	289	279	17	628	0	628	3562.37	4734	8504	635
I	May 2021	543	495	20	624	0	624	3560.57	4723	8366	649
C	Jun 2021	809	640	31	651	0	651	3560.06	4720	8328	663
A	Jul 2021	193	305	36	767	0	767	3553.88	4683	7866	764
L	Aug 2021	292	452	35	801	0	801	3548.96	4655	7511	785
*	Sep 2021	159	380	31	622	0	622	3545.36	4634	7258	626
	WY 2021	**3502**	**4064**	**277**	**8229**	**0**	**8229**				**8280**
	Oct 2021	225	331	21	480	0	480	3543.08	4622	7100	490
	Nov 2021	285	305	20	500	0	500	3540.14	4606	6901	513
	Dec 2021	240	279	16	600	0	600	3535.44	4581	6589	613
	Jan 2022	245	238	4	723	0	723	3528.37	4545	6136	744
	Feb 2022	280	259	4	639	0	639	3522.59	4516	5780	657
	Mar 2022	433	367	7	675	0	675	3517.69	4493	5488	688
	Apr 2022	429	342	11	601	0	601	3513.37	4473	5238	616
	May 2022	929	720	13	599	0	599	3515.12	4481	5338	606
	Jun 2022	693	696	20	628	0	628	3515.88	4484	5382	632
	Jul 2022	59	220	24	709	0	709	3507.47	4446	4907	716
	Aug 2022	47	253	22	758	0	758	3498.33	4407	4419	776
	Sep 2022	134	303	20	568	0	568	3493.17	4386	4155	584
	WY 2022	**4000**	**4311**	**182**	**7480**	**0**	**7480**				**7635**
	Oct 2022	259	350	13	480	0	480	3490.51	4375	4022	489
	Nov 2022	372	367	13	500	0	500	3487.75	4365	3887	514
	Dec 2022	342	340	10	0	600	600	3482.53	4345	3637	613
	Jan 2023	321	318	2	0	664	664	3475.50	4319	3314	683
	Feb 2023	373	356	2	0	587	587	3470.61	4302	3098	604
	Mar 2023	564	478	4	0	620	620	3467.47	4291	2963	638
	Apr 2023	720	589	6	0	552	552	3468.13	4293	2991	569
	May 2023	1589	1311	8	0	550	550	3483.60	4349	3688	558
	Jun 2023	1600	1309	16	577	0	577	3497.02	4402	4351	581
	Jul 2023	286	381	20	652	0	652	3491.69	4380	4081	661
	Aug 2023	198	371	19	696	0	696	3485.15	4355	3762	713
	Sep 2023	220	372	17	0	522	522	3481.87	4342	3606	537
	WY 2023	**6844**	**6539**	**132**	**2905**	**4095**	**7000**				**7160**

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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)
*	Oct 2020	640	35	43	730	11.9	21	734	661	1081.88	10167
H	Nov 2020	640	56	42	714	12.0	11	718	656	1081.07	10100
I	Dec 2020	719	59	37	497	8.1	8	500	671	1083.72	10322
S	Jan 2021	763	72	30	593	9.6	11	616	683	1085.95	10510
T	Feb 2021	675	55	28	574	10.3	8	581	690	1087.26	10622
O	Mar 2021	700	33	31	945	15.4	15	936	675	1084.39	10378
R	Apr 2021	628	36	38	1057	17.8	22	1056	647	1079.30	9953
I	May 2021	624	28	43	1086	17.7	27	1077	616	1073.50	9480
C	Jun 2021	651	-14	51	956	16.1	32	945	592	1068.77	9102
A	Jul 2021	767	95	63	862	14.0	31	854	586	1067.65	9014
L	Aug 2021	801	89	67	766	12.5	31	766	587	1067.96	9038
*	Sep 2021	622	50	55	616	10.4	24	614	586	1067.68	9016
	WY 2021	**8229**	**593**	**529**	**9396**		**241**	**9396**			
	Oct 2021	480	47	40	569	9.3	29	569	579	1066.34	8911
	Nov 2021	500	63	40	705	11.8	17	705	567	1063.94	8725
	Dec 2021	600	64	34	465	7.6	12	465	576	1065.79	8868
	Jan 2022	723	104	28	531	8.6	11	531	592	1068.85	9109
	Feb 2022	639	87	26	563	10.1	9	563	600	1070.36	9228
	Mar 2022	675	64	29	909	14.8	16	909	587	1067.81	9026
	Apr 2022	601	72	36	991	16.7	18	991	564	1063.33	8678
	May 2022	599	36	40	961	15.6	21	961	540	1058.55	8314
	Jun 2022	628	21	48	920	15.5	30	920	519	1054.16	7986
	Jul 2022	709	36	59	813	13.2	35	813	509	1052.09	7835
	Aug 2022	758	90	62	781	12.7	36	781	507	1051.70	7806
	Sep 2022	568	78	51	696	11.7	32	696	499	1049.98	7682
	WY 2022	**7480**	**760**	**493**	**8903**		**266**	**8903**			
	Oct 2022	480	43	37	543	8.8	27	543	494	1048.90	7603
	Nov 2022	500	69	36	662	11.1	16	662	485	1046.99	7467
	Dec 2022	600	64	31	555	9.0	11	555	489	1047.86	7529
	Jan 2023	664	95	26	538	8.7	12	538	501	1050.26	7702
	Feb 2023	587	83	24	558	10.0	9	558	505	1051.29	7776
	Mar 2023	620	86	27	905	14.7	16	905	491	1048.14	7549
	Apr 2023	552	83	33	989	16.6	18	989	466	1042.77	7170
	May 2023	550	41	36	964	15.7	22	964	440	1036.88	6765
	Jun 2023	577	20	43	932	15.7	31	932	415	1031.16	6382
	Jul 2023	652	43	52	829	13.5	35	829	401	1027.99	6174
	Aug 2023	696	84	55	799	13.0	36	799	395	1026.40	6071
	Sep 2023	522	71	45	703	11.8	32	703	383	1023.65	5895
	WY 2023	**7000**	**783**	**445**	**8975**		**265**	**8975**			

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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)
*	Oct 2020	730	-12	15	725	0	725	11.8	635.65	1503
H	Nov 2020	714	-34	11	560	0	560	9.4	639.83	1613
I	Dec 2020	497	-6	9	509	0	509	8.3	638.82	1586
S	Jan 2021	593	-3	10	475	0	474	7.7	642.71	1691
T	Feb 2021	574	-17	10	550	0	550	9.9	642.63	1688
O	Mar 2021	945	-10	13	920	0	920	15.0	642.69	1690
R	Apr 2021	1057	-21	17	1028	0	1028	17.3	642.37	1682
I	May 2021	1086	-10	22	1055	0	1055	17.2	642.32	1680
C	Jun 2021	956	-2	25	901	0	901	15.1	643.33	1708
A	Jul 2021	862	-6	25	831	0	831	13.5	643.31	1707
L	Aug 2021	766	-6	23	731	0	731	11.9	643.54	1713
*	Sep 2021	616	10	18	756	0	756	12.7	638.04	1565
	WY 2021	**9396**	**-118**	**198**	**9040**	**0**	**9040**			
	Oct 2021	569	-11	15	649	0	649	10.6	634.00	1460
	Nov 2021	705	-23	10	567	0	567	9.5	638.00	1564
	Dec 2021	465	-11	9	405	0	405	6.6	639.51	1604
	Jan 2022	531	-17	10	443	0	443	7.2	641.80	1666
	Feb 2022	563	-9	10	544	0	544	9.8	641.80	1666
	Mar 2022	909	-7	13	855	0	855	13.9	643.05	1700
	Apr 2022	991	-8	17	968	0	968	16.3	643.00	1699
	May 2022	961	-8	22	930	0	930	15.1	643.00	1699
	Jun 2022	920	-13	25	881	0	881	14.8	643.00	1699
	Jul 2022	813	-10	25	805	0	805	13.1	642.00	1671
	Aug 2022	781	-11	23	747	0	747	12.1	642.00	1671
	Sep 2022	696	-11	18	720	0	720	12.1	640.01	1617
	WY 2022	**8903**	**-138**	**197**	**8514**	**0**	**8514**			
	Oct 2022	543	-11	15	700	0	700	11.4	633.00	1434
	Nov 2022	662	-23	10	577	0	577	9.7	635.00	1486
	Dec 2022	555	-11	9	417	0	417	6.8	639.51	1604
	Jan 2023	538	-17	10	449	0	449	7.3	641.80	1666
	Feb 2023	558	-9	10	539	0	539	9.7	641.80	1666
	Mar 2023	905	-7	13	851	0	851	13.8	643.05	1700
	Apr 2023	989	-8	17	965	0	965	16.2	643.00	1699
	May 2023	964	-8	22	934	0	934	15.2	643.00	1699
	Jun 2023	932	-13	25	893	0	893	15.0	643.00	1699
	Jul 2023	829	-10	25	821	0	821	13.4	642.00	1671
	Aug 2023	799	-11	23	765	0	765	12.4	642.00	1671
	Sep 2023	703	-11	18	727	0	727	12.2	640.01	1617
	WY 2023	**8975**	**-138**	**197**	**8639**	**0**	**8639**			

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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)
*	Oct 2020	725	21	12	448	7.3	94	164	447.77	576	66	1.1
H	Nov 2020	560	20	9	357	6.0	92	123	447.50	571	92	1.5
I	Dec 2020	509	9	7	286	4.7	95	145	446.46	551	90	1.5
S	Jan 2021	474	13	6	256	4.2	70	124	447.88	578	122	2.0
T	Feb 2021	550	-2	8	430	7.7	0	111	447.56	572	124	2.2
O	Mar 2021	920	1	9	663	10.8	99	149	447.28	566	179	2.9
R	Apr 2021	1028	0	11	728	12.2	102	163	448.04	581	167	2.8
I	May 2021	1055	-2	13	746	12.1	107	168	448.51	590	145	2.4
C	Jun 2021	901	21	15	706	11.9	103	87	448.55	591	151	2.5
A	Jul 2021	831	15	17	669	10.9	106	51	448.23	585	147	2.4
L	Aug 2021	731	16	17	586	9.5	100	48	447.51	571	121	2.0
*	Sep 2021	756	6	15	516	8.7	97	106	448.49	590	112	1.9
	WY 2021	**9040**	**117**	**140**	**6393**		**1065**	**1441**			**1515**	
	Oct 2021	649	21	12	442	7.2	99	130	447.50	571	64	1.0
	Nov 2021	567	18	9	348	5.9	95	129	447.50	570	91	1.5
	Dec 2021	405	20	7	243	3.9	98	92	446.50	552	90	1.5
	Jan 2022	443	17	6	302	4.9	106	41	446.50	552	138	2.2
	Feb 2022	544	7	8	397	7.2	27	113	446.50	552	124	2.2
	Mar 2022	855	7	9	613	10.0	106	121	446.70	555	147	2.4
	Apr 2022	968	11	11	700	11.8	103	117	448.70	593	147	2.5
	May 2022	930	9	13	682	11.1	106	126	448.70	593	110	1.8
	Jun 2022	881	6	16	688	11.6	103	68	448.70	593	116	2.0
	Jul 2022	805	15	17	663	10.8	106	35	448.00	580	123	2.0
	Aug 2022	747	15	17	602	9.8	106	35	447.50	571	101	1.6
	Sep 2022	720	14	15	510	8.6	103	95	447.50	570	99	1.7
	WY 2022	**8514**	**161**	**139**	**6190**		**1158**	**1102**			**1351**	
	Oct 2022	700	21	12	480	7.8	106	117	447.50	571	89	1.4
	Nov 2022	577	18	9	364	6.1	103	114	447.50	571	115	1.9
	Dec 2022	417	20	7	257	4.2	106	82	446.50	552	110	1.8
	Jan 2023	449	17	6	308	5.0	106	41	446.50	552	136	2.2
	Feb 2023	539	7	8	399	7.2	26	107	446.50	552	122	2.2
	Mar 2023	851	7	9	616	10.0	106	114	446.70	555	145	2.4
	Apr 2023	965	11	11	704	11.8	103	111	448.70	593	144	2.4
	May 2023	934	9	13	692	11.3	106	119	448.70	593	108	1.8
	Jun 2023	893	6	16	702	11.8	103	66	448.70	593	114	1.9
	Jul 2023	821	15	17	678	11.0	106	36	448.00	580	120	2.0
	Aug 2023	765	15	17	618	10.1	106	36	447.50	571	100	1.6
	Sep 2023	727	14	15	522	8.8	103	91	447.50	570	97	1.6
	WY 2023	**8639**	**161**	**139**	**6340**		**1181**	**1033**			**1400**	

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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
*	Oct 2020	730	11.9	1081.88	10167	-111	439.76	1154.0	284.7	74	390.2
H	Nov 2020	714	12.0	1081.07	10100	-68	437.77	1303.0	275.5	85	385.6
I	Dec 2020	497	8.0	1083.72	10322	222	442.26	1266.0	191.3	81	384.9
S	Jan 2021	593	9.6	1085.95	10510	189	440.07	1191.0	233.1	74	393.3
T	Feb 2021	574	10.3	1087.26	10622	112	440.33	1080.0	225.4	67	392.4
O	Mar 2021	945	15.4	1084.39	10378	-244	437.56	1109.0	376.2	70	398.0
R	Apr 2021	1057	17.8	1079.30	9953	-425	427.23	1086.9	415.5	70	393.2
I	May 2021	1086	17.7	1073.50	9480	-473	423.99	1042.9	433.7	69	399.5
C	Jun 2021	956	16.1	1068.77	9102	-378	419.04	1451.0	366.8	100	383.7
A	Jul 2021	862	14.0	1067.65	9014	-88	421.16	1417.0	323.4	100	375.3
L	Aug 2021	766	12.5	1067.96	9038	24	421.53	1322.1	286.1	93	373.4
*	Sep 2021	616	10.4	1067.68	9016	-22	425.37	1228.0	232.0	87	376.5
	WY 2021	**9396**							**3643.8**		
	Oct 2021	569	9.3	1066.34	8911	-105	419.28	1228.0	211.1	87	370.8
	Nov 2021	705	11.8	1063.94	8725	-187	417.52	1246.0	263.8	89	374.3
	Dec 2021	465	7.6	1065.79	8868	144	417.78	949.4	174.2	67	374.7
	Jan 2022	531	8.6	1068.85	9109	241	418.93	968.0	196.4	68	369.8
	Feb 2022	563	10.1	1070.36	9228	120	421.18	882.2	214.6	61	381.2
	Mar 2022	909	14.8	1067.81	9026	-202	419.55	963.9	348.7	67	383.7
	Apr 2022	991	16.7	1063.33	8678	-349	413.51	1222.1	368.7	88	372.0
	May 2022	961	15.6	1058.55	8314	-364	409.52	1111.9	357.7	82	372.3
	Jun 2022	920	15.5	1054.16	7986	-327	405.08	1067.6	338.2	81	367.7
	Jul 2022	813	13.2	1052.09	7835	-152	400.24	1298.8	293.5	100	361.0
	Aug 2022	781	12.7	1051.70	7806	-29	399.35	1295.4	280.0	100	358.7
	Sep 2022	696	11.7	1049.98	7682	-124	398.95	1280.9	247.2	100	355.3
	WY 2022	**8903**							**3294.1**		
	Oct 2022	543	8.8	1048.90	7603	-78	399.84	1271.6	190.5	100	350.8
	Nov 2022	662	11.1	1046.99	7467	-137	403.36	927.1	238.8	74	360.9
	Dec 2022	555	9.0	1047.86	7529	62	399.42	1089.9	195.8	86	352.5
	Jan 2023	538	8.7	1050.26	7702	173	398.78	1114.0	188.5	87	350.5
	Feb 2023	558	10.0	1051.29	7776	75	399.77	1117.8	199.1	87	357.0
	Mar 2023	905	14.7	1048.14	7549	-227	400.31	851.4	329.7	67	364.4
	Apr 2023	989	16.6	1042.77	7170	-379	393.58	1069.0	347.7	88	351.8
	May 2023	964	15.7	1036.88	6765	-405	388.59	960.6	338.1	82	350.7
	Jun 2023	932	15.7	1031.16	6382	-383	382.94	909.0	321.1	81	344.6
	Jul 2023	829	13.5	1027.99	6174	-208	376.94	1093.9	279.5	100	337.1
	Aug 2023	799	13.0	1026.40	6071	-103	374.91	1080.4	266.6	100	333.8
	Sep 2023	703	11.8	1023.65	5895	-176	373.42	1057.1	231.6	100	329.5
	WY 2023	**8975**							**3126.9**		

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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
*	Oct 2020	725	11.8	635.65	1503	-22	134.17	215.5	91.1	85	125.5
H	Nov 2020	560	9.4	639.83	1613	110	140.14	168.3	67.8	66	121.2
I	Dec 2020	509	8.3	638.82	1586	-27	135.77	153.0	65.2	60	128.2
S	Jan 2021	475	7.7	642.71	1691	105	143.89	156.3	55.9	61	117.7
T	Feb 2021	550	9.9	642.63	1688	-2	141.55	156.5	71.1	61	129.2
O	Mar 2021	920	15.0	642.69	1690	2	138.82	161.2	117.8	63	128.0
R	Apr 2021	1028	17.3	642.37	1682	-9	138.42	253.3	130.1	99	126.6
I	May 2021	1055	17.2	642.32	1680	-2	139.64	255.0	133.2	100	126.2
C	Jun 2021	901	15.1	643.33	1708	28	141.86	255.0	114.4	100	127.0
A	Jul 2021	831	13.5	643.31	1707	-1	139.09	253.3	106.2	99	127.8
L	Aug 2021	731	11.9	643.54	1713	6	144.21	255.0	93.7	100	128.2
*	Sep 2021	756	12.7	638.04	1565	-148	136.46	255.0	95.1	100	125.8
	WY 2021	**9040**							**1141.6**		
	Oct 2021	649	10.6	634.00	1460	-105	133.94	212.2	78.3	83	120.7
	Nov 2021	567	9.5	638.00	1564	104	134.34	164.9	68.7	65	121.0
	Dec 2021	405	6.6	639.51	1604	40	138.40	187.6	50.5	74	124.7
	Jan 2022	443	7.2	641.80	1666	62	140.01	159.6	55.9	63	126.1
	Feb 2022	544	9.8	641.80	1666	0	140.03	176.7	68.6	69	126.2
	Mar 2022	855	13.9	643.05	1700	34	139.07	255.0	107.1	100	125.3
	Apr 2022	968	16.3	643.00	1699	-2	138.85	255.0	121.1	100	125.1
	May 2022	930	15.1	643.00	1699	0	139.21	255.0	116.7	100	125.4
	Jun 2022	881	14.8	643.00	1699	0	139.32	255.0	110.6	100	125.5
	Jul 2022	805	13.1	642.00	1671	-27	139.43	255.0	101.1	100	125.6
	Aug 2022	747	12.1	642.00	1671	0	139.29	255.0	93.7	100	125.5
	Sep 2022	720	12.1	640.01	1617	-54	138.31	255.0	89.7	100	124.6
	WY 2022	**8514**							**1062.0**		
	Oct 2022	700	11.4	633.00	1434	-183	134.09	227.0	84.6	89	120.8
	Nov 2022	577	9.7	635.00	1486	51	132.26	159.8	68.8	63	119.2
	Dec 2022	417	6.8	639.51	1604	118	136.80	154.7	51.4	61	123.2
	Jan 2023	449	7.3	641.80	1666	62	139.97	156.3	56.7	61	126.1
	Feb 2023	539	9.7	641.80	1666	0	140.07	156.6	68.0	61	126.2
	Mar 2023	851	13.8	643.05	1700	34	139.09	194.1	106.6	76	125.3
	Apr 2023	965	16.2	643.00	1699	-2	138.86	249.9	120.8	98	125.1
	May 2023	934	15.2	643.00	1699	0	139.19	255.0	117.1	100	125.4
	Jun 2023	893	15.0	643.00	1699	0	139.25	255.0	112.1	100	125.5
	Jul 2023	821	13.4	642.00	1671	-27	139.34	255.0	103.1	100	125.5
	Aug 2023	765	12.4	642.00	1671	0	139.18	255.0	95.9	100	125.4
	Sep 2023	727	12.2	640.01	1617	-54	138.26	255.0	90.6	100	124.6
	WY 2023	**8639**							**1075.5**		

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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
*	Oct 2020	448	7.3	447.77	576	22	81.85	90.0	32.2	75	71.8
H	Nov 2020	357	6.0	447.50	571	-5	81.16	90.0	23.9	75	66.9
I	Dec 2020	286	4.7	446.46	551	-19	80.52	118.1	19.7	98	68.9
S	Jan 2021	256	4.2	447.88	578	26	82.16	97.7	16.1	81	62.9
T	Feb 2021	430	7.7	447.56	572	-6	79.82	97.2	29.8	81	69.3
O	Mar 2021	663	10.8	447.28	566	-5	79.45	120.0	46.2	100	69.7
R	Apr 2021	728	12.2	448.04	581	14	79.77	120.0	50.2	100	68.9
I	May 2021	746	12.1	448.51	590	9	80.39	120.0	52.0	100	69.7
C	Jun 2021	706	11.9	448.55	591	1	82.07	120.0	49.4	100	69.9
A	Jul 2021	669	10.9	448.23	585	-6	80.10	120.0	46.6	100	69.6
L	Aug 2021	586	9.5	447.51	571	-14	79.33	120.0	40.7	100	69.4
*	Sep 2021	516	8.7	448.49	590	19	80.37	120.0	35.7	100	69.2
	WY 2021	**6393**							**442.4**		
	Oct 2021	442	7.2	447.50	571	-19	76.53	94.8	29.1	79	65.9
	Nov 2021	348	5.9	447.50	570	0	76.29	90.0	22.6	75	65.0
	Dec 2021	243	3.9	446.50	552	-19	74.82	110.3	15.1	92	62.1
	Jan 2022	302	4.9	446.50	552	0	75.12	93.9	19.1	78	63.5
	Feb 2022	397	7.2	446.50	552	0	75.15	93.2	25.8	78	64.9
	Mar 2022	613	10.0	446.70	555	4	74.01	120.0	39.7	100	64.7
	Apr 2022	700	11.8	448.70	593	38	75.08	120.0	46.1	100	65.8
	May 2022	682	11.1	448.70	593	0	76.05	120.0	45.3	100	66.4
	Jun 2022	688	11.6	448.70	593	0	76.05	120.0	45.7	100	66.5
	Jul 2022	663	10.8	448.00	580	-13	75.71	120.0	43.8	100	66.1
	Aug 2022	602	9.8	447.50	571	-10	75.13	120.0	39.4	100	65.5
	Sep 2022	510	8.6	447.50	570	0	74.89	120.0	33.2	100	65.0
	WY 2022	**6190**							**404.9**		
	Oct 2022	480	7.8	447.50	571	0	76.09	93.9	31.6	78	65.8
	Nov 2022	364	6.1	447.50	571	0	76.29	90.0	23.7	75	65.2
	Dec 2022	257	4.2	446.50	552	-19	74.77	111.3	16.0	93	62.4
	Jan 2023	308	5.0	446.50	552	0	75.12	93.9	19.6	78	63.6
	Feb 2023	399	7.2	446.50	552	0	75.10	94.3	25.9	79	64.9
	Mar 2023	616	10.0	446.70	555	4	74.01	120.0	39.8	100	64.7
	Apr 2023	704	11.8	448.70	593	38	75.08	120.0	46.3	100	65.8
	May 2023	692	11.3	448.70	593	0	76.05	120.0	46.0	100	66.5
	Jun 2023	702	11.8	448.70	593	0	76.05	120.0	46.7	100	66.5
	Jul 2023	678	11.0	448.00	580	-13	75.71	120.0	44.8	100	66.2
	Aug 2023	618	10.1	447.50	571	-10	75.13	120.0	40.5	100	65.5
	Sep 2023	522	8.8	447.50	570	0	74.89	120.0	33.9	100	65.0
	WY 2023	**6340**							**415.0**		

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

Model Run ID: 3165

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OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum Probable Inflow*

Upper Basin Power

— BUREAU OF —
RECLAMATION

	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 2020	277	24	18	22	9	0
H	Nov 2020	275	20	5	7	3	1
I	Dec 2020	304	24	5	7	3	3
S	Jan 2021	319	24	5	6	3	3
T	Feb 2021	278	21	5	6	2	3
O	Mar 2021	285	20	8	11	6	3
	Winter 2021	**1738**	**132**	**46**	**60**	**25**	**14**
R	Apr 2021	254	19	20	28	17	3
I	May 2021	249	36	24	32	20	3
C	Jun 2021	260	30	20	30	19	3
A	Jul 2021	303	24	27	34	20	3
L	Aug 2021	310	37	25	34	20	3
*	Sep 2021	238	36	24	33	19	2
	Summer 2021	**1614**	**182**	**140**	**190**	**114**	**17**
	Oct 2021	177	25	15	22	10	2
	Nov 2021	183	17	4	6	3	3
	Dec 2021	218	17	4	6	3	3
	Jan 2022	258	17	3	6	3	3
	Feb 2022	226	16	3	5	3	3
	Mar 2022	234	16	4	7	4	2
	Winter 2022	**1296**	**109**	**33**	**53**	**27**	**17**
	Apr 2022	206	16	11	18	7	2
	May 2022	205	16	12	22	14	2
	Jun 2022	215	31	17	26	14	2
	Jul 2022	240	19	21	30	15	3
	Aug 2022	251	24	20	29	15	3
	Sep 2022	185	24	18	27	14	3
	Summer 2022	**1302**	**130**	**100**	**152**	**78**	**14**
	Oct 2022	155	17	16	26	9	3
	Nov 2022	161	16	3	6	3	3
	Dec 2022	0	16	3	6	3	3
	Jan 2023	0	16	3	6	3	3
	Feb 2023	0	15	3	5	3	2
	Mar 2023	0	16	4	7	4	3
	Winter 2023	**316**	**96**	**34**	**55**	**27**	**17**
	Apr 2023	0	16	10	18	10	3
	May 2023	0	31	19	33	19	4
	Jun 2023	186	30	15	24	14	5
	Jul 2023	210	20	22	30	15	5
	Aug 2023	223	30	22	29	15	5
	Sep 2023	0	29	20	28	14	4
	Summer 2023	**619**	**126**	**88**	**133**	**73**	**22**

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

Model Run ID: 3165

Processed On: 10/12/2021 4:01:02PM

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

October 2021 24-Month Study

Minimum 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****										
Oct 2021	908	588	798	17064	19358	18604	37962	908	588	798	2294	17064	18604	37962	3040	569	0	22.5
Nov 2021	958	626	815	17222	19621	18709	38330	958	626	815	2399	17222	18709	38330	3810	705	0	22.1
Dec 2021	977	619	831	17421	19848	18895	38743	977	619	831	2427	17421	18895	38743	4580	465	0	22.0
Jan 2022	1,006	615	849	17733	20203	18752	38955	1006	615	849	2470	17733	18752	38955	5350	531	0	21.8
								****EFFECTIVE SPACE****										
Jan 2022	1,006	615	849	17733	20203	18752	38955	143	82	135	359	17733	18752	36844	5350	531	0	21.8
Feb 2022	1,022	606	841	18186	20655	18511	39166	156	73	127	356	18186	18511	37053	1500	563	0	21.6
Mar 2022	1,027	596	831	18542	20996	18392	39388	158	64	116	338	18542	18392	37271	1500	909	0	21.2
Apr 2022	1,012	582	804	18834	21232	18594	39825	138	49	86	273	18834	18594	37700	1500	991	0	20.7
May 2022	979	578	780	19084	21421	18942	40363	99	41	42	182	19084	18942	38209	1500	961	0	20.6
Jun 2022	926	523	728	18984	21161	19306	40467	37	-26	-46	-35	18984	19306	38255	1500	920	0	20.3
Jul 2022	899	507	785	18940	21131	19634	40764	1	-47	-42	-88	18940	19634	38485	1500	813	0	19.5
								****CREDITABLE SPACE****										
Aug 2022	913	544	883	19415	21754	19785	41539	913	544	883	2339	19415	19785	41539	1500	781	0	18.7
Sep 2022	974	584	976	19903	22438	19814	42252	974	584	976	2535	19903	19814	42252	2270	696	0	18.1
Oct 2022	1,032	630	1,034	20167	22863	19938	42802	1032	630	1034	2696	20167	19938	42802	3040	543	0	17.6
Nov 2022	1,051	673	1,067	20300	23091	20017	43107	1051	673	1067	2791	20300	20017	43107	3810	662	0	17.4
Dec 2022	1,061	661	1,075	20435	23231	20153	43385	1061	661	1075	2796	20435	20153	43385	4580	555	0	17.3
Jan 2023	1,081	650	1,071	20685	23487	20091	43578	1081	650	1071	2802	20685	20091	43578	5350	538	0	17.2
								****EFFECTIVE SPACE****										
Jan 2023	1,081	650	1,071	20685	23487	20091	43578	320	224	301	844	20685	20091	41620	5350	538	0	17.2
Feb 2023	1,094	641	1,072	21008	23814	19918	43733	330	214	301	845	21008	19918	41771	1500	558	0	17.1
Mar 2023	1,101	631	1,064	21224	24021	19844	43864	334	204	293	831	21224	19844	41899	1500	905	0	16.9
Apr 2023	1,085	614	1,023	21359	24082	20071	44152	314	186	245	745	21359	20071	42175	1500	989	0	16.6
May 2023	1,046	595	980	21331	23952	20450	44402	269	163	180	611	21331	20450	42393	1500	964	0	17.2
Jun 2023	978	524	895	20634	23031	20855	43886	191	77	57	326	20634	20855	41815	1500	932	0	17.7
Jul 2023	829	432	875	19971	22108	21238	43346	30	-29	-16	-15	19971	21238	41194	1500	829	0	17.1
								****CREDITABLE SPACE****										
Aug 2023	814	453	950	20241	22459	21446	43905	814	453	950	2218	20241	21446	43905	1500	799	0	16.5
Sep 2023	873	484	1,018	20560	22935	21549	44485	873	484	1018	2375	20560	21549	44485	2270	703	0	16.0

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Model Run ID: 3165

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