

To: All Annual Operating Plan Recipients

From: Lower Colorado Region  
Boulder Canyon Operations Office  
River Operations Group  
Bruce Williams  
P.O. Box 61470  
Boulder City, NV 89006-1470  
Phone: 702-293-8571



The operation of Lake Powell and Lake Mead in this July 2013 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 2013 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2012 24-Month Study projections of the January 1, 2013, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2013.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2013 is the Upper Elevation Balancing Tier. Since the April 2013 24-Month Study projected end of water year elevation at Lake Powell was below the 2013 Equalization Elevation of 3,646.0 feet and the projected end of water year elevation at Lake Mead was above elevation 1,075.0 feet, Section 6.B.1 and 6.B.4 of the Interim Guidelines provide for an annual release volume of 8.23 million acre-feet (maf) from Lake Powell during water year 2013.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2013.

Consistent with Section 6.C.1 of the Interim Guidelines, if the August 24-Month study projects the January 1, 2014, Lake Powell elevation to be less than 3,575.0 feet and at or above 3,525.0 feet and the Lake Mead elevation to be at or above 1,025.0 feet, the operational tier for Lake Powell in water year 2014 will be the Mid-Elevation Release Tier and the water year release volume from Lake Powell will be 7.48 maf. This July 2013 24-Month study projects that, with an 8.23 maf annual release pattern in water year 2014, the January 1, 2014, Lake Powell elevation would be 3,574.97 feet and the Lake Mead elevation would be 1,105.73 feet. Therefore, the 2014 Lake Powell operational tier is currently projected to be the Mid-Elevation Release Tier with an annual release volume of 7.48 maf. Based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would result in the Mid-Elevation Release Tier in 2014 is slightly greater than 50 percent.

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

The 2013 AOP is available for download at [http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13\\_final.pdf](http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13_final.pdf).

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows: Observed unregulated inflow into Lake Powell for the month of June was 0.939 maf or 35 percent of the 30-year average from 1981 to 2010. The forecast for July unregulated inflow into Lake Powell is 0.250 maf or 23 percent of the 30-year average. The forecasted 2013 April through July unregulated inflow is 2.67 maf or 37 percent of average.

In this study, the calendar year 2013 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 0.998 maf. The calendar year 2013 diversion for the Central Arizona Project (CAP) is forecasted to be 1.575 maf. Consumptive use for Nevada above Hoover (SNWP Use) is forecasted to be 0.239 maf for calendar year 2013.

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 in 2-foot increments. This study reflects these changes in the projections.

Hoover, Davis, and Parker historical gross energy figures come from PO&M reports provided by the Lower Colorado Region's Power Management Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Larry Karr at (702) 293-8094.

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2013 24-Month Study

Most Probable Inflow\*

Fontenelle Reservoir



Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Jul 2012	92	3	72	3	75	6503.94	329
H Aug 2012	36	2	68	0	68	6499.56	296
I Sep 2012	23	2	46	8	54	6495.11	263
<b>WY 2012</b>	<b>825</b>	<b>15</b>	<b>750</b>	<b>94</b>	<b>845</b>		
S Oct 2012	29	1	25	28	53	6491.56	238
T Nov 2012	35	1	22	28	51	6489.08	221
O Dec 2012	28	1	52	0	52	6485.19	196
R Jan 2013	23	1	53	0	53	6479.94	166
I Feb 2013	23	0	48	0	48	6475.03	141
C Mar 2013	41	0	52	0	52	6472.41	129
A Apr 2013	51	1	51	0	51	6472.25	128
L May 2013	108	1	51	0	51	6483.26	185
* Jun 2013	91	2	47	0	48	6489.79	226
Jul 2013	41	2	49	0	49	6488.27	217
Aug 2013	28	2	43	0	43	6485.66	200
Sep 2013	25	1	40	0	40	6482.93	183
<b>WY 2013</b>	<b>522</b>	<b>14</b>	<b>533</b>	<b>57</b>	<b>590</b>		
Oct 2013	30	1	42	0	42	6480.74	171
Nov 2013	30	1	40	0	40	6478.77	160
Dec 2013	24	0	42	0	42	6475.14	142
Jan 2014	23	0	42	0	42	6470.98	123
Feb 2014	21	0	37	0	37	6466.90	106
Mar 2014	38	0	42	0	42	6465.91	103
Apr 2014	65	1	60	0	60	6467.17	107
May 2014	126	1	92	0	92	6474.70	140
Jun 2014	255	2	101	0	101	6499.07	292
Jul 2014	164	3	101	12	114	6505.23	339
Aug 2014	63	2	74	0	74	6503.58	326
Sep 2014	41	2	36	32	68	6499.77	297
<b>WY 2014</b>	<b>880</b>	<b>14</b>	<b>708</b>	<b>45</b>	<b>753</b>		
Oct 2014	45	1	71	0	71	6496.13	270
Nov 2014	41	1	68	0	68	6492.07	242
Dec 2014	32	1	71	0	71	6486.06	203
Jan 2015	30	1	71	0	71	6479.02	162
Feb 2015	28	0	64	0	64	6471.34	125
Mar 2015	53	0	71	0	71	6466.89	106
Apr 2015	85	1	71	0	71	6470.16	120
May 2015	164	1	99	6	105	6481.96	178
Jun 2015	299	2	103	45	149	6503.52	326

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2013 24-Month Study

Most Probable Inflow\*

Flaming Gorge Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Jul 2012	93	76	12	84	0	84	124	6023.04	3088	99
H	Aug 2012	29	60	12	80	0	80	123	6022.19	3058	90
I	Sep 2012	19	50	10	68	0	68	122	6021.43	3030	79
	<b>WY 2012</b>	<b>990</b>	<b>1010</b>	<b>78</b>	<b>1366</b>	<b>20</b>	<b>1386</b>				<b>2278</b>
S	Oct 2012	24	48	7	52	0	52	122	6021.15	3020	71
T	Nov 2012	39	55	3	49	0	49	122	6021.23	3023	75
O	Dec 2012	25	50	2	70	0	70	121	6020.63	3002	110
R	Jan 2013	24	53	2	74	0	74	120	6020.03	2981	398
I	Feb 2013	30	55	2	67	0	67	119	6019.65	2967	388
C	Mar 2013	64	76	3	53	0	53	120	6020.19	2986	109
A	Apr 2013	69	69	5	50	0	50	121	6020.57	3000	150
L	May 2013	135	77	7	67	0	67	121	6020.65	3003	438
*	Jun 2013	91	48	10	135	3	138	117	6017.91	2906	382
	Jul 2013	43	51	12	68	0	68	116	6017.11	2879	68
	Aug 2013	28	43	11	68	0	68	114	6016.10	2844	68
	Sep 2013	24	39	10	68	0	68	113	6015.01	2807	68
	<b>WY 2013</b>	<b>597</b>	<b>664</b>	<b>74</b>	<b>819</b>	<b>3</b>	<b>823</b>				<b>2324</b>
	Oct 2013	34	46	6	65	0	65	112	6014.26	2782	65
	Nov 2013	36	46	3	51	0	51	112	6014.04	2774	51
	Dec 2013	26	44	2	48	0	48	111	6013.88	2769	48
	Jan 2014	28	47	2	49	0	49	111	6013.76	2765	49
	Feb 2014	32	48	2	49	0	49	111	6013.68	2762	49
	Mar 2014	76	80	3	44	0	44	112	6014.61	2794	44
	Apr 2014	114	109	4	49	0	49	115	6016.16	2846	49
	May 2014	162	128	7	48	0	48	117	6018.22	2917	48
	Jun 2014	280	126	10	102	0	102	118	6018.63	2931	102
	Jul 2014	182	132	12	93	0	93	119	6019.35	2957	93
	Aug 2014	72	83	12	54	0	54	120	6019.82	2973	54
	Sep 2014	48	75	10	54	0	54	120	6020.13	2984	54
	<b>WY 2014</b>	<b>1090</b>	<b>963</b>	<b>73</b>	<b>706</b>	<b>0</b>	<b>706</b>				<b>706</b>
	Oct 2014	54	79	7	52	0	52	121	6020.69	3004	52
	Nov 2014	49	77	3	54	0	54	122	6021.22	3023	54
	Dec 2014	35	74	2	52	0	52	122	6021.76	3042	52
	Jan 2015	40	81	2	54	0	54	123	6022.43	3066	54
	Feb 2015	45	81	2	54	0	54	124	6023.09	3090	54
	Mar 2015	102	120	3	49	0	49	127	6024.90	3157	49
	Apr 2015	134	119	5	54	0	54	129	6026.48	3215	54
	May 2015	245	186	8	52	0	52	134	6029.67	3336	52
	Jun 2015	390	239	11	106	0	106	139	6032.69	3454	106

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



July 2013 24-Month Study

Most Probable Inflow\*

Taylor Park Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Jul 2012	6	14	9307.53	66
H	Aug 2012	4	12	9302.28	58
I	Sep 2012	4	6	9300.80	56
<b>WY 2012</b>		<b>80</b>	<b>95</b>		
S	Oct 2012	4	4	9301.04	57
T	Nov 2012	3	3	9301.07	57
O	Dec 2012	3	3	9301.09	57
R	Jan 2013	3	3	9301.07	57
I	Feb 2013	3	3	9301.01	57
C	Mar 2013	3	3	9301.27	57
A	Apr 2013	6	4	9302.94	59
L	May 2013	21	7	9312.29	74
*	Jun 2013	26	12	9320.43	88
	Jul 2013	10	15	9317.14	82
	Aug 2013	7	15	9312.37	74
	Sep 2013	5	12	9308.11	67
<b>WY 2013</b>		<b>94</b>	<b>83</b>		
	Oct 2013	5	5	9307.85	67
	Nov 2013	4	4	9307.85	67
	Dec 2013	4	4	9307.72	66
	Jan 2014	3	4	9307.33	66
	Feb 2014	3	4	9306.54	65
	Mar 2014	3	4	9306.00	64
	Apr 2014	6	4	9307.39	66
	May 2014	23	12	9314.23	77
	Jun 2014	37	18	9324.75	96
	Jul 2014	14	20	9321.57	90
	Aug 2014	8	20	9314.82	78
	Sep 2014	7	16	9309.13	69
<b>WY 2014</b>		<b>117</b>	<b>115</b>		
	Oct 2014	6	10	9306.71	65
	Nov 2014	5	6	9306.02	64
	Dec 2014	5	6	9305.13	62
	Jan 2015	4	6	9304.00	61
	Feb 2015	4	6	9302.47	59
	Mar 2015	4	6	9301.36	57
	Apr 2015	9	6	9303.31	60
	May 2015	28	12	9313.77	76
	Jun 2015	42	18	9326.78	100

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**



**July 2013 24-Month Study**

Most Probable Inflow\*  
**Blue Mesa Reservoir**



Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Jul 2012	30	39	1	90	0	90	7469.29	431
H Aug 2012	28	36	1	79	0	79	7462.48	387
I Sep 2012	19	21	1	67	0	67	7454.82	340
<b>WY 2012</b>	<b>427</b>	<b>442</b>	<b>7</b>	<b>793</b>	<b>0</b>	<b>793</b>		
S Oct 2012	20	20	0	33	0	33	7452.55	327
T Nov 2012	19	19	0	19	0	19	7452.39	326
O Dec 2012	18	18	0	16	0	16	7452.65	328
R Jan 2013	16	16	0	15	0	15	7452.77	328
I Feb 2013	16	16	0	15	0	15	7452.95	329
C Mar 2013	23	23	0		0	16	7454.12	336
A Apr 2013	43	41	1	38	0	38	7454.46	338
L May 2013	133	119	1	58	0	58	7464.34	399
* Jun 2013	126	111	1	69	0	69	7470.58	440
Jul 2013	47	53	1	97	0	97	7463.70	394
Aug 2013	33	41	1	97	0	97	7454.41	338
Sep 2013	25	32	1	67	0	67	7448.07	302
<b>WY 2013</b>	<b>519</b>	<b>508</b>	<b>6</b>	<b>524</b>	<b>0</b>	<b>540</b>		
Oct 2013	28	28	0	42	0	42	7445.48	288
Nov 2013	24	24	0	13	0	13	7447.50	299
Dec 2013	21	21	0	14	0	14	7448.79	306
Jan 2014	19	20	0	15	0	15	7449.60	310
Feb 2014	16	17	0	12	0	12	7450.50	315
Mar 2014	28	29	0	16	0	16	7452.70	328
Apr 2014	60	58	1	29	0	29	7457.53	356
May 2014	185	174	1	94	0	94	7469.93	435
Jun 2014	230	211	1	33	0	33	7493.91	612
Jul 2014	90	96	1	88	0	88	7494.74	619
Aug 2014	49	61	1	94	0	94	7490.42	585
Sep 2014	37	46	1	84	0	84	7485.40	546
<b>WY 2014</b>	<b>787</b>	<b>785</b>	<b>7</b>	<b>534</b>	<b>0</b>	<b>534</b>		
Oct 2014	38	41	0	42	0	42	7485.24	545
Nov 2014	31	32	0	12	0	12	7487.89	565
Dec 2014	26	27	0	25	0	25	7488.12	567
Jan 2015	24	26	0	55	0	55	7484.27	538
Feb 2015	22	25	0	55	0	55	7480.13	507
Mar 2015	36	38	0	32	0	32	7480.84	512
Apr 2015	77	74	1	54	0	54	7483.49	532
May 2015	221	205	1	120	0	120	7494.34	616
Jun 2015	261	237	1	62	0	62	7514.95	789

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Morrow Point Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Jul 2012	31	90	0	90	89	0	89	7155.86	114
H	Aug 2012	28	79	0	80	80	0	80	7154.84	113
I	Sep 2012	19	67	0	68	71	0	71	7150.03	109
	<b>WY 2012</b>	<b>447</b>	<b>793</b>	<b>21</b>	<b>814</b>	<b>811</b>	<b>0</b>	<b>811</b>		
S	Oct 2012	22	33	1	34	40	0	40	7142.80	104
T	Nov 2012	20	19	1	20	16	0	16	7148.49	108
O	Dec 2012	18	16	1	17	18	0	18	7146.50	106
R	Jan 2013	17	15	1	16	17	0	17	7144.75	105
I	Feb 2013	17	15	1	15	16	0	16	7144.30	105
C	Mar 2013	24	16	1	17	17	0	17	7144.36	105
A	Apr 2013	49	38	6	44	42	0	42	7146.71	107
L	May 2013	148	58	15	72	67	0	67	7154.02	112
*	Jun 2013	132	69	6	75	75	0	75	7154.39	113
	Jul 2013	50	97	3	100	101	0	101	7153.73	112
	Aug 2013	35	97	2	99	99	0	99	7153.73	112
	Sep 2013	27	67	2	69	69	0	69	7153.73	112
	<b>WY 2013</b>	<b>558</b>	<b>540</b>	<b>39</b>	<b>579</b>	<b>576</b>	<b>0</b>	<b>576</b>		
	Oct 2013	30	42	2	44	44	0	44	7153.73	112
	Nov 2013	26	13	2	15	15	0	15	7153.73	112
	Dec 2013	23	14	2	16	16	0	16	7153.73	112
	Jan 2014	21	15	2	17	17	0	17	7153.73	112
	Feb 2014	18	12	2	14	14	0	14	7153.73	112
	Mar 2014	31	16	3	19	19	0	19	7153.73	112
	Apr 2014	69	29	9	38	38	0	38	7153.73	112
	May 2014	206	94	21	115	115	0	115	7153.73	112
	Jun 2014	246	33	16	49	49	0	49	7153.73	112
	Jul 2014	94	88	4	92	92	0	92	7153.73	112
	Aug 2014	51	94	2	96	96	0	96	7153.73	112
	Sep 2014	40	84	3	87	87	0	87	7153.73	112
	<b>WY 2014</b>	<b>855</b>	<b>534</b>	<b>68</b>	<b>602</b>	<b>602</b>	<b>0</b>	<b>602</b>		
	Oct 2014	40	42	3	45	45	0	45	7153.73	112
	Nov 2014	33	12	2	14	14	0	14	7153.73	112
	Dec 2014	28	25	2	27	27	0	27	7153.73	112
	Jan 2015	27	55	2	57	57	0	57	7153.73	112
	Feb 2015	25	55	3	58	58	0	58	7153.73	112
	Mar 2015	40	32	4	36	36	0	36	7153.73	112
	Apr 2015	88	54	11	65	65	0	65	7153.73	112
	May 2015	247	120	26	146	146	0	146	7153.73	112
	Jun 2015	281	62	20	82	82	0	82	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

### Most Probable Inflow\* Crystal Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Jul 2012	35	89	4	93	93	0	93	6745.39	15	62	36
H	Aug 2012	32	80	3	84	84	0	84	6743.63	14	52	38
I	Sep 2012	22	71	2	74	63	11	74	6743.29	14	45	33
<b>WY 2012</b>		<b>498</b>	<b>811</b>	<b>51</b>	<b>862</b>	<b>824</b>	<b>38</b>	<b>862</b>			<b>397</b>	<b>497</b>
S	Oct 2012	24	40	3	42	40	0	40	6750.72	16	20	20
T	Nov 2012	23	16	4	19	21	0	21	6746.77	15	1	19
O	Dec 2012	22	18	4	22	22	0	22	6749.11	16	1	20
R	Jan 2013	20	17	4	21	19	2	21	6747.09	15	0	20
I	Feb 2013	20	16	3	19	10	9	19	6745.57	15	0	19
C	Mar 2013	29	17	5	21	22	0	22	6744.50	15	0	22
A	Apr 2013	55	42	7	49	51	0	51	6738.38	13	33	20
L	May 2013	161	67	13	80	80	0	80	6736.96	13	66	18
*	Jun 2013	144	75	11	86	84	0	84	6744.76	15	65	25
	Jul 2013	54	101	4	105	102	0	102	6753.04	17	65	37
	Aug 2013	38	99	3	102	102	0	102	6753.04	17	65	37
	Sep 2013	32	69	5	74	74	0	74	6753.04	17	55	19
<b>WY 2013</b>		<b>623</b>	<b>576</b>	<b>65</b>	<b>640</b>	<b>626</b>	<b>12</b>	<b>637</b>			<b>371</b>	<b>278</b>
	Oct 2013	35	44	5	49	49	0	49	6753.04	17	30	19
	Nov 2013	30	15	4	19	19	0	19	6753.04	17	0	19
	Dec 2013	26	16	3	19	19	0	19	6753.04	17	0	19
	Jan 2014	23	17	2	19	19	0	19	6753.04	17	0	19
	Feb 2014	21	14	3	17	17	0	17	6753.04	17	0	17
	Mar 2014	36	19	5	24	24	0	24	6753.04	17	5	19
	Apr 2014	79	38	10	48	48	0	48	6753.04	17	30	18
	May 2014	233	115	27	142	134	8	142	6753.04	17	55	87
	Jun 2014	275	49	29	78	78	0	78	6753.04	17	60	18
	Jul 2014	104	92	10	102	102	0	102	6753.04	17	65	37
	Aug 2014	58	96	7	103	103	0	103	6753.04	17	65	38
	Sep 2014	45	87	5	92	92	0	92	6753.04	17	55	37
<b>WY 2014</b>		<b>965</b>	<b>602</b>	<b>110</b>	<b>712</b>	<b>704</b>	<b>8</b>	<b>712</b>			<b>365</b>	<b>347</b>
	Oct 2014	46	45	5	50	50	0	50	6753.04	17	30	20
	Nov 2014	38	14	4	18	18	0	18	6753.04	17	0	18
	Dec 2014	32	27	5	32	32	0	32	6753.04	17	0	32
	Jan 2015	31	57	5	62	62	0	62	6753.04	17	0	62
	Feb 2015	29	58	4	61	61	0	61	6753.04	17	0	61
	Mar 2015	46	36	6	42	42	0	42	6753.04	17	5	37
	Apr 2015	101	65	12	78	78	0	78	6753.04	17	30	48
	May 2015	281	146	34	180	134	46	180	6753.04	17	55	125
	Jun 2015	315	82	34	116	116	0	116	6753.04	17	60	56

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Jul 2012	11	35	7647.02	80
H Aug 2012	7	33	7634.93	54
I Sep 2012	4	22	7624.48	36
<b>WY 2012</b>	<b>168</b>	<b>188</b>		
S Oct 2012	3	3	7624.51	36
T Nov 2012	3	1	7625.69	37
O Dec 2012	3	0	7627.33	40
R Jan 2013	3	0	7629.10	43
I Feb 2013	3	0	7630.60	46
C Mar 2013	4	0	7632.64	50
A Apr 2013	15	1	7639.26	63
L May 2013	49	31	7647.20	80
* Jun 2013	19	35	7639.75	64
Jul 2013	9	37	7624.38	35
Aug 2013	10	29	7608.13	16
Sep 2013	10	10	7607.98	16
<b>WY 2013</b>	<b>131</b>	<b>149</b>		
Oct 2013	9	9	7607.89	15
Nov 2013	6	0	7613.43	21
Dec 2013	5	0	7617.37	26
Jan 2014	4	0	7620.19	29
Feb 2014	4	0	7622.44	33
Mar 2014	6	0	7625.95	38
Apr 2014	19	0	7636.16	56
May 2014	66	2	7663.00	120
Jun 2014	63	58	7664.59	124
Jul 2014	26	42	7658.49	108
Aug 2014	18	38	7650.38	88
Sep 2014	15	30	7643.96	73
<b>WY 2014</b>	<b>240</b>	<b>180</b>		
Oct 2014	14	17	7642.51	70
Nov 2014	8	4	7644.26	74
Dec 2014	6	4	7645.05	75
Jan 2015	5	4	7645.43	76
Feb 2015	5	4	7645.76	77
Mar 2015	9	3	7648.06	82
Apr 2015	23	3	7656.23	102
May 2015	71	48	7664.97	125
Jun 2015	70	70	7664.92	125

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**



**July 2013 24-Month Study**

Most Probable Inflow\*

**Navajo Reservoir**



	<b>Mod Unreg Inflow</b>	<b>Azetea Tunnel Div</b>	<b>Reg Inflow</b>	<b>Evap Losses</b>	<b>NIIP Diversion</b>	<b>Total Release</b>	<b>Reservoir Elev End of Month</b>	<b>Live Storage</b>	<b>Farmington Flow</b>
<b>Date</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(Ft)</b>	<b>(1000 Ac-Ft)</b>	<b>(1000 Ac-Ft)</b>
* Jul 2012	10	1	33	4	44	52	6045.91	1178	60
H Aug 2012	0	0	26	3	45	55	6038.86	1101	47
I Sep 2012	-2	0	17	2	22	58	6032.62	1035	56
<b>WY 2012</b>	<b>523</b>	<b>53</b>	<b>490</b>	<b>26</b>	<b>236</b>	<b>521</b>			<b>814</b>
S Oct 2012	3	0	3	1	11	40	6027.78	986	43
T Nov 2012	9	0	7	1	0	23	6026.11	970	32
O Dec 2012	12	0	9	0	0	22	6024.73	957	30
R Jan 2013	14	0	11	0	0	20	6023.77	947	
I Feb 2013	13	0	10	1	0	19	6022.74	938	36
C Mar 2013	31	1	26	1	6	22	6022.39	934	33
A Apr 2013	71	7	53	2	21	36	6021.77	928	40
L May 2013	154	17	118	3	36	17	6028.15	990	93
* Jun 2013	40	8	46	3	42	33	6024.88	958	50
Jul 2013	6	1	33	3	50	57	6016.72	882	57
Aug 2013	15	0	35	2	44	54	6009.25	816	54
Sep 2013	18	0	18	2	25	38	6003.70	769	38
<b>WY 2013</b>	<b>386</b>	<b>34</b>	<b>369</b>	<b>20</b>	<b>235</b>	<b>380</b>			<b>505</b>
Oct 2013	25	0	25	1	6	28	6002.47	759	28
Nov 2013	23	0	17	1	0	25	6001.42	750	25
Dec 2013	18	0	13	0	0	26	5999.77	737	26
Jan 2014	16	0	12	0	0	26	5997.98	723	26
Feb 2014	21	0	18	0	0	24	5997.17	716	24
Mar 2014	65	2	57	1	2	24	6001.02	747	24
Apr 2014	123	14	90	2	18	16	6007.59	801	16
May 2014	238	37	137	2	33	15	6017.38	888	15
Jun 2014	174	32	137	3	48	15	6024.93	959	15
Jul 2014	60	6	69	3	53	28	6023.34	943	28
Aug 2014	45	2	63	3	46	48	6019.79	910	48
Sep 2014	42	0	56	2	26	39	6018.59	899	39
<b>WY 2014</b>	<b>850</b>	<b>94</b>	<b>695</b>	<b>19</b>	<b>232</b>	<b>314</b>			<b>314</b>
Oct 2014	46	1	48	1	7	31	6019.52	907	31
Nov 2014	33	1	28	1	0	30	6019.30	905	30
Dec 2014	25	0	23	0	0	31	6018.42	897	31
Jan 2015	22	0	21	0	0	31	6017.30	887	31
Feb 2015	30	0	29	1	0	28	6017.42	888	28
Mar 2015	92	2	84	1	2	31	6022.83	938	31
Apr 2015	170	14	136	2	18	30	6031.60	1025	30
May 2015	277	37	217	3	33	48	6044.08	1158	48
Jun 2015	224	32	191	4	49	92	6048.10	1203	92

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Jul 2012	154	285	62	886	0	886	3628.45	5228	14680	892
H	Aug 2012	101	289	60	800	0	800	3623.62	5186	14151	810
I	Sep 2012	104	296	54	481	0	481	3621.56	5168	13929	478
	<b>WY 2012</b>	<b>4908</b>	<b>5964</b>	<b>455</b>	<b>9466</b>	<b>0</b>	<b>9466</b>				<b>9527</b>
S	Oct 2012	190	294	37	498	0	498	3619.46	5150	13706	495
T	Nov 2012	246	273	35	652	78	730	3615.10	5114	13251	736
O	Dec 2012	201	247	27	801	0	801	3609.82	5071	12713	800
R	Jan 2013	168	230	8	801	0	801	3604.42	5028	12177	801
I	Feb 2013	262	300	9	600	0	600	3601.47	5005	11891	595
C	Mar 2013	362	357	14	601	0	601	3598.96	4986	11651	594
A	Apr 2013	355	326	22	551	0	551	3596.53	4967	11422	547
L	May 2013	1122	925	26	602	0	602	3599.44	4989	11697	591
*	Jun 2013	939	907	42	800	0	800	3600.07	4994	11757	790
	Jul 2013	250	424	49	847	0	847	3595.43	4959	11319	866
	Aug 2013	160	347	48	800	0	800	3590.39	4922	10856	821
	Sep 2013	180	311	43	600	0	600	3586.96	4898	10548	614
	<b>WY 2013</b>	<b>4435</b>	<b>4939</b>	<b>361</b>	<b>8152</b>	<b>78</b>	<b>8230</b>				<b>8250</b>
	Oct 2013	300	354	29	480	0	480	3585.34	4886	10404	491
	Nov 2013	330	336	28	500	0	500	3583.32	4872	10226	509
	Dec 2013	250	273	22	600	0	600	3579.57	4846	9903	612
	Jan 2014	250	277	7	800	0	800	3573.74	4807	9413	813
	Feb 2014	300	316	7	600	0	600	3570.45	4785	9144	610
	Mar 2014	490	409	11	600	0	600	3568.13	4770	8957	611
	Apr 2014	770	599	18	500	0	500	3569.07	4776	9032	512
	May 2014	2000	1642	22	600	0	600	3580.43	4852	9976	611
	Jun 2014	2000	1546	38	600	0	600	3589.96	4919	10817	611
	Jul 2014	820	756	47	800	0	800	3589.04	4912	10734	819
	Aug 2014	390	467	46	800	0	800	3585.11	4884	10383	821
	Sep 2014	310	387	42	600	0	600	3582.41	4865	10147	614
	<b>WY 2014</b>	<b>8210</b>	<b>7363</b>	<b>316</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7634</b>
	Oct 2014	430	426	28	480	0	480	3581.52	4859	10071	491
	Nov 2014	435	418	27	500	0	500	3580.35	4851	9969	509
	Dec 2014	363	385	22	600	0	600	3577.77	4834	9750	612
	Jan 2015	361	414	6	800	0	800	3573.42	4805	9387	813
	Feb 2015	393	432	7	600	0	600	3571.46	4792	9225	610
	Mar 2015	665	550	11	600	0	600	3570.76	4787	9169	611
	Apr 2015	1056	844	19	500	0	500	3574.43	4811	9470	512
	May 2015	2343	1890	23	600	0	600	3588.02	4905	10643	611
	Jun 2015	2666	2134	40	600	0	600	3602.86	5016	12025	611

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	<b>Glen Release</b>	<b>Side Inflow</b>	<b>Evap</b>	<b>Total</b>	<b>Total</b>	<b>SNWP</b>	<b>Downstream</b>	<b>Bank</b>	<b>Reservoir Elev</b>	<b>EOM</b>
<b>Date</b>	<b>(1000 Ac-Ft)</b>	<b>Glen to Hoover</b>	<b>Losses</b>	<b>Release</b>	<b>Release</b>	<b>Use</b>	<b>Requirements</b>	<b>Storage</b>	<b>End of Month</b>	<b>Storage</b>
* Jul 2012	886	69	77	841	13.7	29	819	858	1115.92	13207
H Aug 2012	800	169	82	798	13.0	24	793	862	1116.56	13269
I Sep 2012	481	97	67	635	10.7	18	634	854	1115.16	13135
<b>WY 2012</b>	<b>9466</b>	<b>730</b>	<b>638</b>	<b>9421</b>		<b>227</b>	<b>9356</b>			
S Oct 2012	498	53	49	346	5.6	20	331	862	1116.50	13263
T Nov 2012	730	60	49	650	10.9	14	649	867	1117.24	13334
O Dec 2012	801	50	43	476	7.7	11	432	886	1120.36	13636
R Jan 2013	801	56	35	609	9.9	9	591	899	1122.32	13828
I Feb 2013	600	68	32	646	11.6	8	644	898	1122.14	13810
C Mar 2013	601	69	36	987	16.1	15	986	875	1118.59	13465
A Apr 2013	551	37	44	1103	18.5	20	1102	840	1112.91	12921
L May 2013	602	28	50	1007	16.4	27	1008	812	1108.36	12495
* Jun 2013	800	2	59	948	15.9	29	947	798	1105.98	12276
Jul 2013	847	55	73	891	14.5	29	891	792	1105.04	12190
Aug 2013	800	109	77	821	13.3	23	821	792	1104.91	12178
Sep 2013	600	81	64	703	11.8	19	703	785	1103.84	12080
<b>WY 2013</b>	<b>8230</b>	<b>669</b>	<b>611</b>	<b>9186</b>		<b>225</b>	<b>9103</b>			
Oct 2013	480	54	46	579	9.4	17	579	779	1102.71	11979
Nov 2013	500	44	46	661	11.1	24	661	767	1100.76	11804
Dec 2013	600	99	39	582	9.5	19	582	771	1101.38	11859
Jan 2014	800	81	32	718	11.7	16	718	778	1102.58	11967
Feb 2014	600	94	30	687	12.4	18	687	775	1102.15	11928
Mar 2014	600	77	33	1030	16.8	21	1030	750	1097.87	11546
Apr 2014	500	80	40	1115	18.7	14	1115	714	1091.56	10992
May 2014	600	64	45	1002	16.3	24	1002	690	1087.11	10609
Jun 2014	600	33	54	939	15.8	22	939	666	1082.86	10249
Jul 2014	800	55	67	861	14.0	28	861	660	1081.72	10154
Aug 2014	800	109	71	827	13.5	23	827	659	1081.58	10142
Sep 2014	600	81	58	634	10.7	19	634	657	1081.24	10114
<b>WY 2014</b>	<b>7480</b>	<b>870</b>	<b>562</b>	<b>9637</b>		<b>245</b>	<b>9637</b>			
Oct 2014	480	54	42	465	7.6	17	465	658	1081.35	10123
Nov 2014	500	44	42	610	10.3	23	610	650	1079.86	9999
Dec 2014	600	99	37	500	8.1	18	500	659	1081.49	10135
Jan 2015	800	81	30	726	11.8	16	726	665	1082.71	10237
Feb 2015	600	94	28	696	12.5	18	696	662	1082.17	10191
Mar 2015	600	77	31	1045	17.0	22	1045	637	1077.40	9797
Apr 2015	500	80	37	1132	19.0	14	1132	600	1070.39	9231
May 2015	600	64	42	1019	16.6	24	1019	574	1065.36	8835
Jun 2015	600	33	49	955	16.0	23	955	550	1060.55	8465

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Jul 2012	841	-9	25	805	0	805	13.1	642.89	1696
H	Aug 2012	798	-11	23	744	0	744	12.1	643.63	1716
I	Sep 2012	635	-5	18	723	0	723	12.1	639.55	1605
	<b>WY 2012</b>	<b>9421</b>	<b>-177</b>	<b>197</b>	<b>9051</b>	<b>0</b>	<b>9051</b>			
S	Oct 2012	346	-3	14	556	0	556	9.0	630.75	1377
T	Nov 2012	650	-11	10	499	0	499	8.4	635.82	1507
O	Dec 2012	476	-6	9	395	0	395	6.4	638.30	1572
R	Jan 2013	609	-11	10	510	0	510	8.3	641.20	1650
I	Feb 2013	646	-12	10	609	0	609	11.0	641.78	1665
C	Mar 2013	987	-11	13	956	0	956	15.5	642.06	1673
A	Apr 2013	1103	-20	17	1017	0	1017	17.1	643.87	1723
L	May 2013	1007	-15	22	959	0	959	15.6	644.24	1733
*	Jun 2013	948	-16	26	928	0	928	15.6	643.45	1711
	Jul 2013	891	-5	25	886	0	886	14.4	642.50	1685
	Aug 2013	821	-8	23	803	0	803	13.1	642.00	1671
	Sep 2013	703	-1	18	791	0	791	13.3	638.00	1564
	<b>WY 2013</b>	<b>9186</b>	<b>-120</b>	<b>197</b>	<b>8909</b>	<b>0</b>	<b>8909</b>			
	Oct 2013	579	0	15	694	0	694	11.3	633.00	1434
	Nov 2013	661	-16	10	583	0	583	9.8	635.00	1486
	Dec 2013	582	-17	9	458	0	458	7.4	638.71	1583
	Jan 2014	718	-16	10	610	0	610	9.9	641.80	1666
	Feb 2014	687	-8	10	669	0	669	12.0	641.80	1666
	Mar 2014	1030	-16	13	967	0	967	15.7	643.05	1700
	Apr 2014	1115	-15	17	1085	0	1085	18.2	643.00	1699
	May 2014	1002	-14	22	966	0	966	15.7	643.00	1699
	Jun 2014	939	-12	25	929	0	929	15.6	642.00	1671
	Jul 2014	861	-5	25	845	0	845	13.7	641.50	1658
	Aug 2014	827	-8	23	797	0	797	13.0	641.50	1658
	Sep 2014	634	-1	18	708	0	708	11.9	638.00	1564
	<b>WY 2014</b>	<b>9637</b>	<b>-129</b>	<b>197</b>	<b>9311</b>	<b>0</b>	<b>9311</b>			
	Oct 2014	465	0	15	580	0	580	9.4	633.00	1434
	Nov 2014	610	-16	10	533	0	533	9.0	635.00	1486
	Dec 2014	500	-17	9	376	0	376	6.1	638.71	1583
	Jan 2015	726	-16	10	618	0	618	10.1	641.80	1666
	Feb 2015	696	-8	10	678	0	678	12.2	641.80	1666
	Mar 2015	1045	-16	13	982	0	982	16.0	643.05	1700
	Apr 2015	1132	-15	17	1102	0	1102	18.5	643.00	1699
	May 2015	1019	-14	22	983	0	983	16.0	643.00	1699
	Jun 2015	955	-12	25	944	0	944	15.9	642.00	1671

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Jul 2012	805	46	17	675	11.0	101	34	448.91	598	124	2.0
H	Aug 2012	744	26	17	568	9.2	100	85	448.38	587	97	1.6
I	Sep 2012	723	31	15	548	9.2	74	137	446.98	561	90	1.5
	<b>WY 2012</b>	<b>9051</b>	<b>290</b>	<b>140</b>	<b>6652</b>		<b>723</b>	<b>1763</b>			<b>1435</b>	
S	Oct 2012	556	34	12	482	7.8	14	32	449.31	606	70	1.1
T	Nov 2012	499	27	9	348	5.9	14	174	448.06	581	88	1.5
O	Dec 2012	395	21	7	289	4.7	15	132	446.41	550	132	2.2
R	Jan 2013	510	17	6	352	5.7	57	80	448.01	580	143	2.3
I	Feb 2013	609	4	8	444	8.0	7	147	448.13	583	158	2.8
C	Mar 2013	956	7	9	680	11.1	98	180	447.58	572	191	3.1
A	Apr 2013	1017	14	11	765	12.9	84	148	448.35	587	185	3.1
L	May 2013	959	20	13	677	11.0	97	174	448.76	595	95	1.5
*	Jun 2013	928	10	16	688	11.6	100	130	448.45	589	98	1.7
	Jul 2013	886	25	17	702	11.4	99	79	448.50	589	103	1.7
	Aug 2013	803	24	17	629	10.2	99	79	448.00	580	92	1.5
	Sep 2013	791	23	15	562	9.4	96	154	446.81	557	102	1.7
	<b>WY 2013</b>	<b>8909</b>	<b>227</b>	<b>140</b>	<b>6618</b>		<b>780</b>	<b>1509</b>			<b>1456</b>	
	Oct 2013	694	26	12	456	7.4	99	155	446.31	548	65	1.1
	Nov 2013	583	32	8	380	6.4	80	137	446.50	552	99	1.7
	Dec 2013	458	26	6	279	4.5	82	112	446.50	552	105	1.7
	Jan 2014	610	16	6	340	5.5	98	176	446.50	552	125	2.0
	Feb 2014	669	10	8	450	8.1	88	127	446.50	552	156	2.8
	Mar 2014	967	17	9	690	11.2	98	175	446.70	555	201	3.3
	Apr 2014	1085	21	11	785	13.2	95	169	448.70	593	212	3.6
	May 2014	966	20	13	690	11.2	98	173	448.70	593	111	1.8
	Jun 2014	929	15	16	683	11.5	95	137	448.70	593	109	1.8
	Jul 2014	845	25	17	716	11.6	98	38	448.00	580	111	1.8
	Aug 2014	797	24	17	633	10.3	98	70	447.50	571	105	1.7
	Sep 2014	708	23	15	549	9.2	70	101	446.81	557	102	1.7
	<b>WY 2014</b>	<b>9311</b>	<b>256</b>	<b>139</b>	<b>6650</b>		<b>1100</b>	<b>1571</b>			<b>1500</b>	
	Oct 2014	580	26	12	448	7.3	24	124	446.31	548	65	1.1
	Nov 2014	533	32	8	376	6.3	24	147	446.50	552	99	1.7
	Dec 2014	376	26	6	275	4.5	24	92	446.50	552	105	1.7
	Jan 2015	618	16	6	348	5.7	98	176	446.50	552	125	2.0
	Feb 2015	678	10	8	458	8.3	88	127	446.50	552	156	2.8
	Mar 2015	982	17	9	704	11.5	98	175	446.70	555	201	3.3
	Apr 2015	1102	21	11	801	13.5	95	169	448.70	593	212	3.6
	May 2015	983	20	13	707	11.5	98	173	448.70	593	111	1.8
	Jun 2015	944	15	16	698	11.7	95	137	448.70	593	109	1.8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Jul 2012	841	13.7	1115.92	13207	8	471.23	1374.0	349.7	76	415.6
H	Aug 2012	798	13.0	1116.56	13269	61	471.53	1809.0	331.4	100	415.2
I	Sep 2012	635	10.7	1115.16	13135	-134	473.98	1809.0	261.9	100	412.2
<b>WY 2012</b>		<b>9421</b>							<b>3985.6</b>		
S	Oct 2012	346	5.6	1116.50	13263	128	476.50	1051.0	141.3	58	409.0
T	Nov 2012	650	10.9	1117.24	13334	71	473.22	1051.0	276.3	58	424.7
O	Dec 2012	476	7.7	1120.36	13636	302	475.06	1520.0	198.5	84	417.3
R	Jan 2013	609	9.9	1122.32	13828	192	474.10	1062.0	259.8	59	426.6
I	Feb 2013	646	11.6	1122.14	13810	-18	475.07	1072.0	276.4	59	427.6
C	Mar 2013	987	16.1	1118.59	13465	-346	472.93	1073.0	425.6	59	431.1
A	Apr 2013	1103	18.5	1112.91	12921	-544	463.52	1042.0	467.6	57	423.9
L	May 2013	1007	16.4	1108.36	12495	-426	463.02	1353.0	419.9	75	417.1
*	Jun 2013	948	15.9	1105.98	12276	-219	460.72	1726.0	388.1	97	409.5
	Jul 2013	891	14.5	1105.04	12190	-85	451.84	1753.0	366.5	100	411.4
	Aug 2013	821	13.3	1104.91	12178	-12	451.79	1726.0	334.6	100	407.6
	Sep 2013	703	11.8	1103.84	12080	-98	452.66	1718.0	282.7	100	402.1
<b>WY 2013</b>		<b>9186</b>							<b>3837.1</b>		
	Oct 2013	579	9.4	1102.71	11979	-102	456.40	1317.0	232.7	77	402.1
	Nov 2013	661	11.1	1100.76	11804	-175	456.68	1285.0	268.3	75	406.0
	Dec 2013	582	9.5	1101.38	11859	55	454.06	1310.0	233.2	76	400.8
	Jan 2014	718	11.7	1102.58	11967	108	457.04	634.0	309.5	37	430.9
	Feb 2014	687	12.4	1102.15	11928	-39	452.30	1284.0	281.0	74	408.9
	Mar 2014	1030	16.8	1097.87	11546	-383	448.18	1481.0	416.0	87	403.7
	Apr 2014	1115	18.7	1091.56	10992	-553	443.29	1338.0	455.4	80	408.3
	May 2014	1002	16.3	1087.11	10609	-383	437.82	1339.0	395.9	81	394.9
	Jun 2014	939	15.8	1082.86	10249	-359	431.79	1634.0	366.4	100	390.2
	Jul 2014	861	14.0	1081.72	10154	-96	429.61	1631.0	336.7	100	390.9
	Aug 2014	827	13.5	1081.58	10142	-12	429.13	1637.0	321.7	100	388.8
	Sep 2014	634	10.7	1081.24	10114	-28	430.03	1638.0	239.9	100	378.4
<b>WY 2014</b>		<b>9637</b>							<b>3856.7</b>		
	Oct 2014	465	7.6	1081.35	10123	9	433.36	1437.0	178.8	88	384.6
	Nov 2014	610	10.3	1079.86	9999	-124	434.40	1416.0	236.9	87	388.1
	Dec 2014	500	8.1	1081.49	10135	135	431.19	1195.3	192.6	76	385.3
	Jan 2015	726	11.8	1082.71	10237	102	430.39	578.7	278.9	37	384.0
	Feb 2015	696	12.5	1082.17	10191	-45	429.72	1171.1	268.9	74	386.2
	Mar 2015	1045	17.0	1077.40	9797	-394	426.68	1345.6	399.6	87	382.5
	Apr 2015	1132	19.0	1070.39	9231	-566	420.46	1205.1	432.9	80	382.5
	May 2015	1019	16.6	1065.36	8835	-396	414.51	1201.3	377.0	81	369.9
	Jun 2015	955	16.0	1060.55	8465	-370	409.97	1456.7	347.3	100	363.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
* Jul 2012	805	13.1	642.89	1696	2	143.36	255.0	100.7	100	125.1
H Aug 2012	744	12.1	643.63	1716	20	142.43	252.5	92.5	99	124.3
I Sep 2012	723	12.1	639.55	1605	-111	137.86	255.0	96.5	100	133.5
<b>WY 2012</b>	<b>9051</b>							<b>1153.5</b>		
S Oct 2012	556	9.0	630.75	1377	-228	130.98	206.6	68.5	81	123.3
T Nov 2012	499	8.4	635.82	1507	130	136.16	168.3	67.9	66	136.0
O Dec 2012	395	6.4	638.30	1572	65	134.78	183.6	44.1	72	111.7
R Jan 2013	510	8.3	641.20	1650	78	139.33	163.2	63.2	64	123.8
I Feb 2013	609	11.0	641.78	1665	16	138.67	153.0	76.8	60	126.1
C Mar 2013	956	15.5	642.06	1673	8	140.26	191.3	120.2	75	125.8
A Apr 2013	1017	17.1	643.87	1723	49	142.09	252.5	128.5	99	126.3
L May 2013	959	15.6	644.24	1733	10	143.40	244.8	121.8	96	127.0
* Jun 2013	928	15.6	643.45	1711	-22	141.69	247.4	116.9	97	126.0
Jul 2013	886	14.4	642.50	1685	-26	136.15	249.9	111.2	98	125.4
Aug 2013	803	13.1	642.00	1671	-14	135.25	255.0	100.6	100	125.2
Sep 2013	791	13.3	638.00	1564	-107	132.89	255.0	97.4	100	123.1
<b>WY 2013</b>	<b>8909</b>							<b>1117.1</b>		
Oct 2013	694	11.3	633.00	1434	-130	129.33	214.2	83.1	84	119.8
Nov 2013	583	9.8	635.00	1486	51	127.83	211.7	69.4	83	119.0
Dec 2013	458	7.4	638.71	1583	97	130.91	209.1	56.1	82	122.4
Jan 2014	610	9.9	641.80	1666	83	134.46	209.1	76.0	82	124.5
Feb 2014	669	12.0	641.80	1666	0	136.08	209.1	83.7	82	125.2
Mar 2014	967	15.7	643.05	1700	34	135.44	255.0	120.5	100	124.5
Apr 2014	1085	18.2	643.00	1699	-2	136.07	255.0	134.9	100	124.3
May 2014	966	15.7	643.00	1699	0	136.04	255.0	120.8	100	125.1
Jun 2014	929	15.6	642.00	1671	-27	135.51	255.0	115.7	100	124.6
Jul 2014	845	13.7	641.50	1658	-14	134.73	255.0	105.2	100	124.6
Aug 2014	797	13.0	641.50	1658	0	134.46	255.0	99.2	100	124.6
Sep 2014	708	11.9	638.00	1564	-94	132.62	255.0	87.4	100	123.4
<b>WY 2014</b>	<b>9311</b>							<b>1152.0</b>		
Oct 2014	580	9.4	633.00	1434	-130	129.33	214.2	69.8	84	120.5
Nov 2014	533	9.0	635.00	1486	51	127.83	211.7	63.5	83	119.3
Dec 2014	376	6.1	638.71	1583	97	130.91	209.1	46.2	82	123.0
Jan 2015	618	10.1	641.80	1666	83	134.46	209.1	76.9	82	124.5
Feb 2015	678	12.2	641.80	1666	0	136.08	209.1	84.8	82	125.1
Mar 2015	982	16.0	643.05	1700	34	135.44	255.0	122.2	100	124.5
Apr 2015	1102	18.5	643.00	1699	-2	136.07	255.0	136.9	100	124.3
May 2015	983	16.0	643.00	1699	0	136.04	255.0	122.8	100	125.0
Jun 2015	944	15.9	642.00	1671	-27	135.51	255.0	117.6	100	124.6

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Jul 2012	675	11.0	448.91	598	13	82.94	120.0	46.8	100	69.4
H	Aug 2012	568	9.2	448.38	587	-10	80.54	120.0	39.3	100	69.2
I	Sep 2012	548	9.2	446.98	561	-26	81.05	120.0	37.8	100	69.0
<b>WY 2012</b>		<b>6652</b>							<b>458.2</b>		
S	Oct 2012	482	7.8	449.31	606	44	83.52	96.0	33.3	80	69.0
T	Nov 2012	348	5.9	448.06	581	-24	82.22	92.4	24.1	77	69.2
O	Dec 2012	289	4.7	446.41	550	-31	80.98	103.2	19.5	86	67.5
R	Jan 2013	352	5.7	448.01	580	30	83.56	102.0	24.4	85	69.4
I	Feb 2013	444	8.0	448.13	583	2	80.52	115.2	31.2	96	70.1
C	Mar 2013	680	11.1	447.58	572	-10	81.73	120.0	46.8	100	68.9
A	Apr 2013	765	12.9	448.35	587	15	82.42	97.2	51.1	81	66.8
L	May 2013	677	11.0	448.76	595	8	80.83	104.4	46.4	87	68.6
*	Jun 2013	688	11.6	448.45	589	-6	82.20	117.6	47.4	98	68.9
	Jul 2013	702	11.4	448.50	589	1	75.83	120.0	46.5	100	66.3
	Aug 2013	629	10.2	448.00	580	-9	75.61	120.0	41.5	100	65.9
	Sep 2013	562	9.4	446.81	557	-23	74.79	120.0	36.6	100	65.1
<b>WY 2013</b>		<b>6618</b>							<b>448.8</b>		
	Oct 2013	456	7.4	446.31	548	-9	75.37	90.0	29.7	75	65.2
	Nov 2013	380	6.4	446.50	552	3	75.10	92.4	24.5	77	64.5
	Dec 2013	279	4.5	446.50	552	0	75.32	90.0	17.6	75	63.2
	Jan 2014	340	5.5	446.50	552	0	75.19	92.4	21.8	77	64.0
	Feb 2014	450	8.1	446.50	552	0	75.13	93.6	29.3	78	65.3
	Mar 2014	690	11.2	446.70	555	4	75.42	90.0	45.7	75	66.3
	Apr 2014	785	13.2	448.70	593	38	75.34	114.0	52.0	95	66.2
	May 2014	690	11.2	448.70	593	0	76.05	120.0	45.9	100	66.4
	Jun 2014	683	11.5	448.70	593	0	76.05	120.0	45.4	100	66.5
	Jul 2014	716	11.6	448.00	580	-13	75.71	120.0	47.5	100	66.3
	Aug 2014	633	10.3	447.50	571	-9	75.13	120.0	41.5	100	65.6
	Sep 2014	549	9.2	446.81	557	-13	74.55	120.0	35.6	100	64.9
<b>WY 2014</b>		<b>6650</b>							<b>436.6</b>		
	Oct 2014	448	7.3	446.31	548	-9	74.77	102.0	28.9	85	64.6
	Nov 2014	376	6.3	446.50	552	3	74.62	102.0	24.1	85	64.1
	Dec 2014	275	4.5	446.50	552	0	74.71	102.0	17.2	85	62.7
	Jan 2015	348	5.7	446.50	552	0	74.71	102.0	22.2	85	63.7
	Feb 2015	458	8.3	446.50	552	0	73.92	120.0	29.4	100	64.2
	Mar 2015	704	11.5	446.70	555	4	74.01	120.0	45.7	100	64.9
	Apr 2015	801	13.5	448.70	593	38	75.08	120.0	52.9	100	66.0
	May 2015	707	11.5	448.70	593	0	76.05	120.0	47.0	100	66.5
	Jun 2015	698	11.7	448.70	593	0	76.05	120.0	46.5	100	66.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
* Jul 2012	398	33	24	31	18	6
H Aug 2012	360	31	21	28	16	6
I Sep 2012	214	27	17	25	12	4
<b>Summer 2012</b>	<b>1849</b>	<b>232</b>	<b>123</b>	<b>168</b>	<b>94</b>	<b>31</b>
S Oct 2012	221	20	8	13	6	2
O Dec 2012	346	27	4	6	2	4
R Jan 2013	349	28	4	6	2	4
I Feb 2013	259	25	4	5	1	3
C Mar 2013	258	20	4	5	2	3
<b>Winter 2013</b>	<b>1433</b>	<b>121</b>	<b>23</b>	<b>35</b>	<b>12</b>	<b>15</b>
A Apr 2013	235	19	10	14	8	3
L May 2013	257	26	15	23	15	3
* Jun 2013	344	52	18	26	16	3
Jul 2013	332	24	27	36	17	4
Aug 2013	310	24	26	36	18	3
Sep 2013	232	24	18	25	13	3
<b>Summer 2013</b>	<b>1710</b>	<b>169</b>	<b>113</b>	<b>160</b>	<b>87</b>	<b>20</b>
Oct 2013	184	23	11	16	8	3
Nov 2013	191	18	3	5	3	3
Dec 2013	227	17	4	6	3	3
Jan 2014	299	18	4	6	3	3
Feb 2014	224	18	3	5	3	2
Mar 2014	222	16	4	7	4	3
<b>Winter 2014</b>	<b>1348</b>	<b>109</b>	<b>29</b>	<b>45</b>	<b>25</b>	<b>17</b>
Apr 2014	185	18	8	14	8	4
May 2014	224	17	26	41	23	6
Jun 2014	229	37	10	18	13	8
Jul 2014	309	33	26	33	18	10
Aug 2014	308	19	28	35	18	7
Sep 2014	229	19	25	31	16	3
<b>Summer 2014</b>	<b>1483</b>	<b>144</b>	<b>122</b>	<b>172</b>	<b>96</b>	<b>38</b>
Oct 2014	183	19	12	16	9	6
Nov 2014	190	19	3	5	3	6
Dec 2014	226	19	7	10	5	6
Jan 2015	299	19	16	21	11	5
Feb 2015	223	20	16	21	11	4
Mar 2015	222	18	9	13	7	5
<b>Winter 2015</b>	<b>1120</b>	<b>96</b>	<b>55</b>	<b>72</b>	<b>39</b>	<b>28</b>
Apr 2015	185	20	16	23	13	5
May 2015	227	19	35	53	23	7
Jun 2015	234	39	19	30	20	9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## July 2013 24-Month Study

Most Probable Inflow\*

### Flood Control Criteria

#### Beginning of Month Conditions



Date	Flaming Gorge	Blue Mesa	Navajo	Lake Powell	Upper Basin Total	Lake Mead	Total	Flaming Gorge	Blue Mesa	Navajo	Tot or Max Allow	Lake Powell	Lake Mead	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jul 2013	960	390	738	12565	14653	15101	29755	-25	-50	-23	-98	12565	15101	27569	1500	891	0	30.4
<b>**** CREDITABLE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Aug 2013	998	435	814	13003	15250	15187	30437	998	435	814	2248	13003	15187	30437	1500	821	0	29.7
Sep 2013	1,050	492	880	13466	15889	15199	31087	1050	492	880	2422	13466	15199	31087	2270	703	0	29.0
Oct 2013	1,103	528	927	13774	16333	15297	31629	1103	528	927	2558	13774	15297	31629	3040	579	0	28.6
Nov 2013	1,141	542	937	13918	16538	15398	31936	1141	542	937	2620	13918	15398	31936	3810	661	0	28.2
Dec 2013	1,159	531	946	14096	16731	15573	32305	1159	531	946	2636	14096	15573	32305	4580	582	0	28.0
Jan 2014	1,183	524	959	14419	17085	15518	32603	1183	524	959	2665	14419	15518	32603	5350	718	0	27.7
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2014	1,183	524	959	14419	17085	15518	32603	440	341	373	1153	14419	15518	31091	5350	718	0	27.7
Feb 2014	1,206	519	973	14909	17607	15410	33017	461	337	387	1184	14909	15410	31504	1500	687	0	27.4
Mar 2014	1,225	514	980	15178	17897	15449	33346	478	333	392	1203	15178	15449	31831	1500	1030	0	26.9
Apr 2014	1,198	502	949	15365	18014	15831	33845	446	321	359	1126	15365	15831	32323	1500	1115	0	26.6
May 2014	1,140	473	895	15290	17798	16385	34183	382	290	285	956	15290	16385	32631	1500	1002	0	27.5
Jun 2014	1,037	394	808	14346	16585	16768	33353	267	199	163	629	14346	16768	31743	1500	939	0	28.4
Jul 2014	871	217	737	13505	15330	17128	32458	89	2	41	132	13505	17128	30765	1500	861	0	28.2
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2014	798	211	753	13588	15350	17223	32573	798	211	753	1761	13588	17223	32573	1500	827	0	27.8
Sep 2014	794	245	786	13939	15764	17235	32999	794	245	786	1825	13939	17235	32999	2270	634	0	27.3
Oct 2014	813	283	797	14175	16068	17263	33331	813	283	797	1893	14175	17263	33331	3040	465	0	27.1
Nov 2014	819	285	789	14251	16144	17254	33398	819	285	789	1893	14251	17254	33398	3810	610	0	26.9
Dec 2014	829	265	791	14353	16237	17378	33615	829	265	791	1884	14353	17378	33615	4580	500	0	26.9
Jan 2015	849	263	799	14572	16483	17242	33725	849	263	799	1911	14572	17242	33725	5350	726	0	26.7
<b>**** EFFECTIVE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>										
Jan 2015	849	263	799	14572	16483	17242	33725	640	263	458	1360	14572	17242	33174	5350	726	0	26.7
Feb 2015	866	292	809	14935	16902	17140	34043	653	292	467	1412	14935	17140	33488	1500	696	0	26.4
Mar 2015	879	323	808	15097	17106	17186	34292	662	323	466	1451	15097	17186	33733	1500	1045	0	26.1
Apr 2015	831	317	758	15153	17059	17580	34639	609	317	412	1338	15153	17580	34071	1500	1132	0	26.1
May 2015	759	298	671	14852	16580	18146	34726	529	298	306	1133	14852	18146	34131	1500	1019	0	27.3
Jun 2015	580	214	538	13679	15012	18542	33554	336	214	137	687	13679	18542	32908	1500	955	0	28.8

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