

**December 24-Month Study**  
**Date: December 12, 2012**

**From:** Water Resources Group, Salt Lake City  
**To:** All Colorado River Annual Operating Plan (AOP) Recipients

**Current Reservoir Status**

Reservoir	November Inflow (unregulated) (acre-feet)	Percent of Average (%)	December 10 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	35,000	83	6488.02	214,000
Flaming Gorge	39,000	76	6021.15	3,020,000
Blue Mesa	19,000	60	7452.48	326,000
Navajo	9,100	27	6025.60	965,000
Powell	246,000	52	3613.50	13,086,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this December 2012 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 2012 Annual Operating Plan (AOP) and draft 2013 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. The December 2012 24-Month Study projects the water year release volume from Lake Powell for 2013 to be 8.23 million acre-feet (maf).

Consistent with Section 6.B.3 of the Interim Guidelines, if the April 24-Month study projects the September 30 Lake Powell elevation to be greater than the 2013 Equalization elevation of 3,646.0 feet with an annual release from Lake Powell of 8.23 maf, the Equalization Tier will govern operations of Lake Powell for the remainder of the water year. If such an adjustment occurs, the water year release volume from Lake Powell may be greater than 8.23 maf. Based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would trigger Equalization in 2013 is less than 5 percent.

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 2012 and 2013.

The Interim Guidelines are available for download at <http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.  
The 2012 AOP is available for download at <http://www.usbr.gov/lc/region/g4000/aop/AOP12.pdf>.  
The draft 2013 AOP is available for download at [http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13\\_draft.pdf](http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13_draft.pdf).

***Fontenelle Reservoir*** – Inflows to Fontenelle Reservoir for the month of November were 35,000 acre-feet (AF), or 83 percent of average. The reservoir elevation is 6488.6 feet above sea level, 63 percent of capacity and will be decreasing over the winter. Inflows are averaging 600 cubic feet per second (cfs). Reservoir releases remained steady at 850 cfs and will likely remain near this level through the fall and winter months.

Inflows for the next three months are projected to be below average: with December, January and February forecasted inflow volumes at 30,000 AF (94% of average), 25,000 AF (82% of average), and 22,000 AF (80% of average), respectively. The Colorado Basin River Forecast Center has also issued the water year 2013 outlook. Based on the December climatology and initial conditions, the forecasted inflows for water year 2013 are 795,000 AF (73% of average).

The next Fontenelle Working Group meeting is scheduled for April 25, 2013, at 10:00 am at the Seedskaadee National Wildlife Refuge. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir. The autumn Fontenelle Working Group meeting was held on August 23, 2012 at Joint Powers and Water Board in Green River, Wyoming. Minutes from the meeting are posted on the Working Group webpages.

***Flaming Gorge Reservoir*** – Unregulated inflow into Flaming Gorge Reservoir during the month of November was 39,000 acre-feet, or 76 percent of average. The reservoir elevation is 6021.25 feet and dropping. Observed inflows are approximately 1,300 cubic feet per second (cfs).

Forecasts continue to decrease and Flaming Gorge Dam is in the moderately dry hydrologic classification as outlined in the Record of Decision. Beginning December 1, 2012, Flaming Gorge Dam releases increases from minimum 800 cfs steady releases to a double peak pattern daily average release of 1,200 cfs.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the joint water supply forecast for the next three months. The unregulated

inflow volumes and percent of average for December, January and February are forecasted to be 29 kaf (83%), 29 kaf (72%), and 32 kaf (72%), respectively. Based on the December climatology and initial conditions, the forecasted inflows for water year 2013 are 949,000 AF (65% of average).

The next Flaming Gorge Working Group meeting is scheduled for April 24, 2013, at 11:00 a.m. at the new Utah Department of Natural Resources building in Vernal, Utah, located at 318 North Vernal Avenue. The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stake holders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. For more information on this group and these meetings please contact Ed Vidmar at 801-379-1182.

**Aspinall Unit Reservoirs** – November unregulated inflow into Blue Mesa Reservoir was 19,000 acre-feet or 60 percent of average. Precipitation during November was observed to be about 35 percent of average. The current inflow rate into Blue Mesa Reservoir is about 300 cfs while reservoir releases are averaging about 300 cfs. Blue Mesa's present elevation is 7452.49 feet, which corresponds to a storage content of about 327,000 acre-feet. The unregulated reservoir inflow into Blue Mesa Reservoir during water year 2012 was 426,500 acre-feet, or about 45 percent of average.

Releases from Crystal are currently set at 350 cfs. The Gunnison Diversion Tunnel was shut down for the season on October 16<sup>th</sup>, with exception of some small 10 to 20 cfs diversions taken bi-weekly for municipal water needs in Montrose, Colorado. River flows below the tunnel are essentially the same as releases from the Dam, with the exception of when the tunnel is taking water to refill Fairfield Reservoir for Montrose municipal water needs.

On December 1, 2012, the National Weather Service's River Forecasting Center issued its forecasted inflow into Blue Mesa for the next 3 months. The unregulated inflow forecast for December, January, and February is for 47,000 acre-feet, which is 65% of average for these months.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday January 24<sup>th</sup> in the Montrose, Colorado, starting at 1:00 PM. At this meeting, review of last summer and fall reservoir operations, and plans for this winter and next spring 2013 operations will be discussed. These meetings are open forum discussions on the Aspinall Unit reservoir operations with many interested groups participating. Anyone needing further information about these meetings should contact Dan Crabtree in the Grand Junction Area Office at (970) 248-0652.

**Navajo Reservoir** – Navajo Reservoir release rate is currently set at 350 cfs. Releases are made for the authorized purposes of the Navajo Unit, and to attempt to maintain a target base flow through the endangered fish critical habitat reach of the San Juan River (Farmington to Lake Powell).

The San Juan River Basin Recovery Implementation Program recommends a target base flow of between 500 cfs and 1,000 cfs through the critical habitat area. The target base flow is calculated as the weekly average of gaged flows throughout the critical habitat area.

Precipitation for the month of November in the San Juan River basin was about 45 percent of average. Unregulated inflow into Navajo Reservoir during the month of November was 9100 acre-feet, or 27 percent of average. Currently, the daily reservoir inflow is averaging about 100 cfs. Diversions for NIIP have shut down for the season. The reservoir water surface elevation is at 6025.54 feet, which corresponds to a storage content of about 964,000 acre-feet or about 57% of capacity.

The unregulated reservoir inflow into Navajo Reservoir during water year 2012 was recorded at 522,000 acre-feet, or about 49 percent of average. The reservoir had a seasonal peak elevation of 6061.56 feet on May 20, 2012.

A public meeting on Navajo Reservoir operations will be held Tuesday, January 15, 2013 at 1:00 PM at the Civic Center in Farmington, New Mexico (200 West Arrington Street). At this meeting, review of last summer and fall reservoir operations, and plans for this winter and spring 2013 operations will be discussed. These meetings are open forum discussions on the operation of Navajo Reservoir with many interested groups participating. Anyone interested in the general operation of the reservoir is encouraged to attend. Please contact Ryan Christianson in Reclamation's Durango, Colorado Office at (970) 385-6590 for information about these meetings or the daily operation of Navajo Reservoir.

### **Glen Canyon Dam / Lake Powell – Recent Reservoir Operations**

The unregulated inflow volume to Lake Powell in November was 246 thousand acre-feet (kaf) (52% of average). The release volume from Glen Canyon Dam in November was 730 kaf. The end of November elevation and storage of Lake Powell were 3615.1 feet (85 feet from full pool) and 13.25 maf (54% of full capacity). The reservoir elevation will continue to decline through the fall and winter months.

From November 18-23, 2012, the Department of Interior conducted the first High Flow Experiment under a multi-year High Flow Protocol announced earlier this year by Secretary Salazar. Under this Protocol, high flow releases are linked to sediment input and other resource conditions below Glen Canyon Dam. Beginning on the evening of November 18th, releases from Glen Canyon Dam began ramping up to full power plant capacity (approximately 28,000 cfs). At midday on November 19th, bypass tubes at Glen Canyon Dam were opened and releases continued to increase up to full power plant and bypass capacity (approximately 43,000 cfs) by the evening of November 19th. Releases

were maintained at peak release for 24 hours and then began ramping back down. Releases returned to normal operations in the evening of November 23rd. The entire experiment, including ramping lasted 5 days, with 24 hours at peak release. November releases from Glen Canyon Dam prior to and after the High Flow Experiment fluctuated between 7,000cfs and 9,000cfs. The elevation of Lake Powell is decreased approximately 2.75 feet during the 5-day experiment. Approximately 77,800 acre-feet was bypassed during the experiment. The total annual release from Glen Canyon Dam in water year 2013 will not change as a result of the High Flow Experiment.

### **Current and Planned Reservoir Operations**

The operating tier for 2013 is the Upper Elevation Balancing Tier, as established in August 2012 and pursuant to the Interim Guidelines. However, if hydrologic conditions and projections become wetter, it is possible that beginning in April, the Equalization tier will govern the operations of Lake Powell for the remainder of the water year. Based on analysis of a range of inflow scenarios, however, the current probability of realizing an inflow volume that would trigger Equalization in 2013 is less than 5 percent. As hydrologic conditions for Lake Powell and Lake Mead change throughout the year, Reclamation will adjust operations of Glen Canyon Dam to release the appropriate annual volume during 2013 to achieve the governing operating tier objectives as practicably as possible by September 30, 2013.

Releases from Glen Canyon Dam in December are currently averaging approximately 13,000 cfs with daily fluctuations between 8,250cfs and 16,250cfs and consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The scheduled release volume for December 2012 is 800 kaf.

In January, the release volume will likely be about 800 kaf, with fluctuations throughout the day from about 8,500 cfs in the early morning to about 16,500 cfs in the evening. In February, the release volume will likely be about 600 kaf with daily fluctuations for hydropower between approximately 8,000 cfs and 14,000 cfs.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 MW of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of about 1,100 cfs above or below the hourly scheduled release rate. Typically, fluctuations for system regulation are very short lived and balance out over the hour and do not have noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled fluctuations for power generation when called upon as a partner that shares reserve requirements within the electrical generator community (i.e. balancing area). Reserves provide system reliability in the event of an unscheduled outage. Glen Canyon Dam typically maintains 43 MW of reserves (approximately 1,100 cfs). Reserve calls can be maintained for a maximum of 2 hours after which time the generation rate should be returned to the original schedule. If reserves from Glen Canyon Dam are called upon, releases from the

dam can exceed scheduled levels and can have a noticeable impact on the river downstream from Glen Canyon Dam. Calls for reserves are fairly infrequent and typically are for much less than 43 MW.

### **Current Inflow Forecasts and Model Projections**

The hydrologic forecast for Lake Powell for water year 2013 projects that the most probable (median) unregulated inflow volume will be 5.76 maf (53% of average based on the period 1981-2010). Based on this hydrologic outlook, the December 24-Month study projects the annual release volume for water year 2013 will be 8.23 maf and the end of water year reservoir elevation and storage for Lake Powell will be 3594.8 and 11.26 maf (48% capacity), respectively.

If hydrologic conditions and projections become significantly wetter, it is possible that beginning in April, the Equalization tier will govern the operations of Lake Powell for the remainder of the water year and the release volume for 2013 could be greater than 8.23 maf. However, based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would trigger Equalization in 2013 is less than 5 percent.

**Upper Colorado River Basin Hydrology** - Since water year 2005, the Upper Colorado River Basin has experienced significant year to year hydrologic variability. The unregulated inflow to Lake Powell, which is a good measure of hydrologic conditions in the Colorado River Basin, has averaged a water year volume of 10.22 maf (94% of average (period 1981-2010)) during the period from 2005 through 2012. The hydrologic variability during this period has been from a low water year unregulated inflow volume of 4.91 maf (45% of average) in water year 2012 to a high water year unregulated inflow volume of 15.97 maf (147% of average) in water year 2011. Based on observed inflows and current forecasts, water year 2013 unregulated inflow is expected to be 5.76 maf (53% of average).

Overall reservoir storage in the Colorado River Basin has increased by over 4 maf since the beginning of water year 2005 and this is an improvement over the persistent drought conditions during water years 2000 through 2004. From the beginning of water year 2005 to the beginning of water year 2013, the total reservoir storage in the Colorado River Basin increased from 29.8 maf (50% of capacity) to 33.9 maf (57 % of capacity). However, this period experienced year to year increases and decreases in total Colorado Basin storage in response to wet and dry hydrology.

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION

WATER RESOURCES GROUP

ATTENTION UC-430

125 SOUTH STATE STREET, ROOM 6107

SALT LAKE CITY, UT 84138-5571

PHONE 801-524-3709

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RUNOFF AND INFLOW PROJECTIONS INTO UPPER BASIN RESERVOIRS ARE PROVIDED BY  
THE COLORADO RIVER FORECASTING SERVICE THROUGH THE NATIONAL WEATHER SERVICES'S  
COLORADO BASIN RIVER FORECAST CENTER AND ARE AS FOLLOWS

:			Obs		nov	Forecast			
:		aug	sep	oct	nov	%Avg	dec	jan	feb
GLDA3: Lake Powell		101	104	190	246	52%:	250/	250/	250/
GBRW4: Fontenelle		36	23	29	35	83%:	30/	25/	22/
GRNU1: Flaming Gorge		29	19.4	24	39	76%:	29/	29/	32/
BMDC2: Blue Mesa		28	19.2	20	18.8	60%:	17/	16/	14/
MPSC2: Morrow Point		28	19.5	22	19.6	59%:	18/	17/	15/
CLSC2: Crystal		32	22	24	23	60%:	21/	20/	18/
TPIC2: Taylor Park		4.5	4.3	4.2	3.0	59%:	2.9/	2.6/	2/
VCRC2: Vallecito		7.1	3.9	3.4	3.1	35%:	2.7/	2.2/	1.9/
NVRN5: Navajo		0.36	-2.27	3.4	9.1	27%:	11/	12/	15/
LEMC2: Lemon		2.4	0.78	0.55	0.45	27%:	0.4/	0.35/	0.3/
MPHC2: McPhee		7.0	4.0	1.63	1.71	29%:	1.8/	2/	2.5/
RBSC2: Ridgway		7.6	6.1	4.5	3.6	64%:	3.3/	3/	2.8/

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



December 2012 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)
* Dec 2011	35	1	74	0	74	6486.86	207
H Jan 2012	32	1	74	0	74	6479.61	165
I Feb 2012	30	0	69	0	69	6471.56	126
S Mar 2012	64	0	67	0	67	6470.82	123
T Apr 2012	98	1	60	0	60	6478.72	160
O May 2012	130	1	61	0	62	6489.92	227
R Jun 2012	189	2	83	16	99	6502.11	315
I Jul 2012	92	3	72	3	75	6503.94	329
C Aug 2012	36	2	68	0	68	6499.56	296
A 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>		
L Oct 2012	29	1	25	28	53	6491.56	238
* Nov 2012	35	1	22	28	51	6489.08	221
Dec 2012	30	1	54	0	54	6485.31	198
Jan 2013	25	1	52	0	52	6480.55	170
Feb 2013	22	1	47	0	47	6475.55	144
Mar 2013	42	0	52	0	52	6473.26	133
Apr 2013	62	1	51	0	51	6475.55	144
May 2013	117	1	86	0	86	6481.26	174
Jun 2013	215	2	89	0	89	6499.80	297
Jul 2013	128	3	80	0	80	6505.64	343
Aug 2013	58	2	74	0	74	6503.35	325
Sep 2013	38	2	67	0	67	6499.37	294
<b>WY 2013</b>	<b>800</b>	<b>15</b>	<b>699</b>	<b>56</b>	<b>756</b>		
Oct 2013	43	1	69	0	69	6495.68	267
Nov 2013	40	1	67	0	67	6491.73	240
Dec 2013	32	1	69	0	69	6485.98	202
Jan 2014	30	1	69	0	69	6479.28	163
Feb 2014	28	0	62	0	62	6472.02	128
Mar 2014	53	0	69	0	69	6468.09	111
Apr 2014	85	1	77	0	77	6469.89	119
May 2014	164	1	99	6	105	6481.76	177
Jun 2014	299	2	103	73	176	6499.90	298
Jul 2014	178	3	101	30	131	6505.58	342
Aug 2014	77	2	74	0	74	6505.62	343
Sep 2014	46	2	64	0	64	6503.09	323
<b>WY 2014</b>	<b>1074</b>	<b>15</b>	<b>921</b>	<b>109</b>	<b>1030</b>		
Oct 2014	49	1	66	0	66	6500.66	304
Nov 2014	42	1	64	0	64	6497.63	281

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	38	77	2	108	0	108	137	6031.41	3404	147
H	Jan 2012	45	87	2	148	0	148	134	6029.85	3343	189
I	Feb 2012	47	86	2	140	0	140	132	6028.43	3289	186
S	Mar 2012	104	107	3	162	0	162	130	6026.95	3233	286
T	Apr 2012	136	98	5	122	0	122	129	6026.21	3205	331
O	May 2012	153	85	8	159	19	178	125	6023.57	3108	385
R	Jun 2012	188	98	10	87	0	87	125	6023.59	3108	156
I	Jul 2012	93	76	12	84	0	84	124	6023.04	3088	99
C	Aug 2012	29	60	12	80	0	80	123	6022.19	3058	90
A	Sep 2012	19	50	10	68	0	68	122	6021.43	3030	78
	<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>
L	Oct 2012	24	48	7	52	0	52	122	6021.15	3020	69
*	Nov 2012	39	55	3	49	0	49	122	6021.23	3023	73
	Dec 2012	29	53	2	70	0	70	121	6020.72	3005	70
	Jan 2013	29	56	2	74	0	74	120	6020.20	2987	74
	Feb 2013	32	57	2	66	0	66	120	6019.90	2976	66
	Mar 2013	76	86	3	50	0	50	121	6020.81	3008	50
	Apr 2013	86	75	5	48	0	48	122	6021.41	3030	48
	May 2013	156	125	7	95	0	95	123	6022.01	3051	95
	Jun 2013	235	109	10	128	0	128	122	6021.24	3024	128
	Jul 2013	145	97	13	61	0	61	123	6021.87	3046	61
	Aug 2013	62	78	12	61	0	61	123	6022.00	3051	61
	Sep 2013	42	71	11	59	0	59	123	6022.03	3052	59
	<b>WY 2013</b>	<b>955</b>	<b>910</b>	<b>75</b>	<b>813</b>	<b>0</b>	<b>813</b>				<b>854</b>
	Oct 2013	50	75	7	61	0	61	123	6022.24	3060	61
	Nov 2013	47	74	3	59	0	59	124	6022.56	3071	59
	Dec 2013	35	72	2	61	0	61	124	6022.80	3080	61
	Jan 2014	40	79	2	61	0	61	125	6023.23	3095	61
	Feb 2014	45	79	2	55	0	55	125	6023.81	3117	55
	Mar 2014	102	119	3	61	0	61	127	6025.25	3169	61
	Apr 2014	134	125	5	59	0	59	130	6026.84	3229	59
	May 2014	245	186	8	112	0	112	132	6028.53	3293	112
	Jun 2014	390	266	10	224	0	224	134	6029.33	3323	224
	Jul 2014	210	163	14	101	0	101	135	6030.53	3370	101
	Aug 2014	89	86	13	101	0	101	134	6029.83	3342	101
	Sep 2014	55	73	11	98	0	98	133	6028.92	3307	98
	<b>WY 2014</b>	<b>1441</b>	<b>1398</b>	<b>79</b>	<b>1053</b>	<b>0</b>	<b>1053</b>				<b>1053</b>
	Oct 2014	59	77	7	101	0	101	132	6028.10	3276	101
	Nov 2014	51	73	3	98	0	98	131	6027.38	3249	98

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	4	6	9307.93	67
H	Jan 2012	4	5	9307.37	66
I	Feb 2012	4	4	9307.22	66
S	Mar 2012	6	4	9308.28	67
T	Apr 2012	10	4	9311.81	73
O	May 2012	16	8	9316.40	81
R	Jun 2012	9	15	9312.87	75
I	Jul 2012	6	14	9307.53	66
C	Aug 2012	4	12	9302.28	58
A	Sep 2012	4	6	9300.80	56
<b>WY 2012</b>		<b>80</b>	<b>94</b>		
L	Oct 2012	4	4	9301.04	57
*	Nov 2012	3	3	9301.07	57
	Dec 2012	3	5	9299.90	55
	Jan 2013	3	5	9298.48	53
	Feb 2013	2	5	9296.56	51
	Mar 2013	3	5	9294.96	49
	Apr 2013	5	5	9295.36	49
	May 2013	17	8	9301.79	58
	Jun 2013	24	15	9307.91	67
	Jul 2013	11	18	9303.48	60
	Aug 2013	6	18	9294.55	48
	Sep 2013	5	16	9284.26	37
<b>WY 2013</b>		<b>85</b>	<b>104</b>		
	Oct 2013	5	10	9278.90	32
	Nov 2013	4	5	9278.89	32
	Dec 2013	5	5	9279.10	32
	Jan 2014	4	5	9278.93	32
	Feb 2014	4	5	9278.12	31
	Mar 2014	4	5	9278.05	31
	Apr 2014	9	5	9282.78	35
	May 2014	28	8	9300.38	56
	Jun 2014	42	18	9315.73	79
	Jul 2014	20	18	9316.97	82
	Aug 2014	10	18	9312.43	74
	Sep 2014	7	16	9306.98	65
<b>WY 2014</b>		<b>143</b>	<b>115</b>		
	Oct 2014	7	10	9304.74	62
	Nov 2014	5	5	9305.16	62

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	24	26	0	87	0	87	7489.07	574
H	Jan 2012	22	23	0	52	0	52	7485.29	545
I	Feb 2012	21	22	0	34	0	34	7483.66	533
S	Mar 2012	40	39	0	32	0	32	7484.49	539
T	Apr 2012	57	51	1	58	0	58	7483.54	532
O	May 2012	74	66	1	71	0	71	7482.82	527
R	Jun 2012	45	50	1	93	0	93	7476.82	483
I	Jul 2012	30	39	1	90	0	90	7469.29	431
C	Aug 2012	28	36	1	79	0	79	7462.48	387
A	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>		
L	Oct 2012	20	20	0	33	0	33	7452.55	327
*	Nov 2012	19	19	0	19	0	19	7452.39	326
	Dec 2012	17	19	0	21	0	21	7451.95	324
	Jan 2013	16	18	0	15	0	15	7452.43	326
	Feb 2013	14	17	0	13	0	13	7453.01	330
	Mar 2013	23	25	0	18	0	18	7454.25	337
	Apr 2013	52	52	1	29	0	29	7457.95	359
	May 2013	115	107	1	56	0	56	7465.87	408
	Jun 2013	132	123	1	56	0	56	7475.58	474
	Jul 2013	57	64	1	92	0	92	7471.31	445
	Aug 2013	38	50	1	97	0	97	7464.13	397
	Sep 2013	28	39	1	77	0	77	7457.95	359
<b>WY 2013</b>		<b>531</b>	<b>551</b>	<b>7</b>	<b>525</b>	<b>0</b>	<b>525</b>		
	Oct 2013	32	36	0	44	0	44	7456.71	351
	Nov 2013	28	28	0	15	0	15	7458.99	365
	Dec 2013	26	25	0	15	0	15	7460.71	376
	Jan 2014	24	24	0	24	0	24	7460.76	376
	Feb 2014	22	23	0	21	0	21	7461.07	378
	Mar 2014	36	36	0	26	0	26	7462.70	388
	Apr 2014	77	73	1	36	0	36	7468.28	424
	May 2014	221	201	1	118	0	118	7480.02	506
	Jun 2014	261	237	1	42	0	42	7504.66	700
	Jul 2014	117	115	1	106	0	106	7505.52	707
	Aug 2014	63	71	1	115	0	115	7500.19	663
	Sep 2014	38	47	1	94	0	94	7494.23	615
<b>WY 2014</b>		<b>946</b>	<b>917</b>	<b>8</b>	<b>654</b>	<b>0</b>	<b>654</b>		
	Oct 2014	38	42	1	59	0	59	7491.97	597
	Nov 2014	31	31	0	29	0	29	7492.13	598

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	25	87	0	88	85	0	85	7154.97	113
H	Jan 2012	23	52	1	53	52	0	52	7155.61	113
I	Feb 2012	22	34	1	35	35	0	35	7155.27	113
S	Mar 2012	43	32	2	35	34	0	34	7156.25	114
T	Apr 2012	63	58	6	64	63	0	63	7157.05	115
O	May 2012	80	71	6	76	79	0	79	7154.07	112
R	Jun 2012	45	93	1	93	93	0	93	7154.59	113
I	Jul 2012	31	90	0	90	89	0	89	7155.86	114
C	Aug 2012	28	79	0	80	80	0	80	7154.84	113
A	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>		
L	Oct 2012	22	33	1	34	40	0	40	7142.80	104
*	Nov 2012	20	19	1	20	16	0	16	7148.49	108
	Dec 2012	18	21	1	22	18	0	18	7153.73	112
	Jan 2013	17	15	1	16	16	0	16	7153.73	112
	Feb 2013	15	13	1	14	14	0	14	7153.73	112
	Mar 2013	25	18	2	20	20	0	20	7153.73	112
	Apr 2013	58	29	6	35	35	0	35	7153.73	112
	May 2013	128	56	13	69	69	0	69	7153.73	112
	Jun 2013	139	56	7	63	63	0	63	7153.73	112
	Jul 2013	61	92	4	96	96	0	96	7153.73	112
	Aug 2013	41	97	3	100	100	0	100	7153.73	112
	Sep 2013	31	77	3	80	80	0	80	7153.73	112
<b>WY 2013</b>		<b>574</b>	<b>525</b>	<b>43</b>	<b>568</b>	<b>565</b>	<b>0</b>	<b>565</b>		
	Oct 2013	34	44	3	46	46	0	46	7153.73	112
	Nov 2013	31	15	2	17	17	0	17	7153.73	112
	Dec 2013	28	15	2	17	17	0	17	7153.73	112
	Jan 2014	27	24	2	26	26	0	26	7153.73	112
	Feb 2014	25	21	3	24	24	0	24	7153.73	112
	Mar 2014	40	26	4	30	30	0	30	7153.73	112
	Apr 2014	88	36	11	47	47	0	47	7153.73	112
	May 2014	247	118	26	144	144	0	144	7153.73	112
	Jun 2014	281	42	20	62	62	0	62	7153.73	112
	Jul 2014	123	106	6	112	112	0	112	7153.73	112
	Aug 2014	67	115	3	118	118	0	118	7153.73	112
	Sep 2014	41	94	3	97	97	0	97	7153.73	112
<b>WY 2014</b>		<b>1031</b>	<b>654</b>	<b>85</b>	<b>739</b>	<b>739</b>	<b>0</b>	<b>739</b>		
	Oct 2014	41	59	3	62	62	0	62	7153.73	112
	Nov 2014	33	29	2	31	31	0	31	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	28	85	3	88	89	0	89	6750.95	16	1	90
H	Jan 2012	27	52	3	56	53	3	56	6751.28	16	1	57
I	Feb 2012	26	35	3	38	15	23	38	6751.90	17	1	40
S	Mar 2012	49	34	6	40	40	0	40	6751.80	17	6	36
T	Apr 2012	71	63	8	71	71	0	71	6752.10	17	50	23
O	May 2012	86	79	6	84	86	0	86	6745.87	15	65	23
R	Jun 2012	49	93	3	96	97	0	97	6744.24	14	63	36
I	Jul 2012	35	89	4	93	93	0	93	6745.39	15	62	35
C	Aug 2012	32	80	3	84	84	0	84	6743.63	14	52	36
A	Sep 2012	22	71	2	74	63	11	74	6743.29	14	45	32
	<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>492</b>
L	Oct 2012	24	40	3	42	40	0	40	6750.72	16	20	20
*	Nov 2012	23	16	4	19	21	0	21	6746.77	15	1	19
	Dec 2012	21	18	3	21	19	0	19	6753.04	17	0	19
	Jan 2013	20	16	3	19	19	0	19	6753.04	17	0	19
	Feb 2013	18	14	3	17	17	0	17	6753.04	17	0	17
	Mar 2013	28	20	3	23	23	0	23	6753.04	17	5	17
	Apr 2013	69	35	11	46	46	0	46	6753.04	17	30	16
	May 2013	146	69	18	87	87	0	87	6753.04	17	55	32
	Jun 2013	154	63	15	78	78	0	78	6753.04	17	60	18
	Jul 2013	67	96	6	102	102	0	102	6753.04	17	65	37
	Aug 2013	44	100	3	103	103	0	103	6753.04	17	65	38
	Sep 2013	36	80	5	85	85	0	85	6753.04	17	55	30
	<b>WY 2013</b>	<b>650</b>	<b>565</b>	<b>76</b>	<b>642</b>	<b>639</b>	<b>0</b>	<b>639</b>			<b>356</b>	<b>282</b>
	Oct 2013	40	46	5	52	52	0	52	6753.04	17	30	22
	Nov 2013	35	17	5	21	21	0	21	6753.04	17	0	21
	Dec 2013	32	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2014	31	26	5	31	31	0	31	6753.04	17	0	31
	Feb 2014	29	24	4	27	27	0	27	6753.04	17	0	27
	Mar 2014	46	30	6	36	36	0	36	6753.04	17	5	31
	Apr 2014	101	47	12	60	60	0	60	6753.04	17	30	30
	May 2014	281	144	34	178	134	44	178	6753.04	17	55	123
	Jun 2014	315	62	34	96	96	0	96	6753.04	17	60	36
	Jul 2014	138	112	14	127	127	0	127	6753.04	17	65	62
	Aug 2014	75	118	8	126	126	0	126	6753.04	17	65	61
	Sep 2014	47	97	6	103	103	0	103	6753.04	17	55	48
	<b>WY 2014</b>	<b>1170</b>	<b>739</b>	<b>139</b>	<b>878</b>	<b>834</b>	<b>44</b>	<b>878</b>			<b>365</b>	<b>513</b>
	Oct 2014	47	62	6	68	68	0	68	6753.04	17	30	38
	Nov 2014	38	31	5	36	36	0	36	6753.04	17	0	36

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Dec 2011	5	2	7644.76	75
H	Jan 2012	5	3	7645.42	76
I	Feb 2012	4	4	7645.50	76
S	Mar 2012	12	4	7648.84	84
T	Apr 2012	36	3	7661.80	117
O	May 2012	42	35	7664.36	124
R	Jun 2012	17	36	7656.80	104
I	Jul 2012	11	35	7647.02	80
C	Aug 2012	7	33	7634.93	54
A	Sep 2012	4	22	7624.48	36
<b>WY 2012</b>		<b>168</b>	<b>188</b>		
L	Oct 2012	3	3	7624.51	36
*	Nov 2012	3	1	7625.69	37
	Dec 2012	3	2	7626.38	39
	Jan 2013	2	2	7626.75	39
	Feb 2013	2	1	7627.02	40
	Mar 2013	4	2	7628.16	42
	Apr 2013	12	1	7633.69	52
	May 2013	39	27	7639.25	63
	Jun 2013	49	41	7642.83	70
	Jul 2013	17	38	7631.96	48
	Aug 2013	14	34	7619.39	28
	Sep 2013	11	24	7607.04	15
<b>WY 2013</b>		<b>158</b>	<b>177</b>		
	Oct 2013	12	12	7607.06	15
	Nov 2013	8	1	7613.18	21
	Dec 2013	6	2	7617.24	26
	Jan 2014	5	2	7620.19	29
	Feb 2014	5	1	7622.53	33
	Mar 2014	9	2	7626.99	40
	Apr 2014	23	1	7638.53	61
	May 2014	71	31	7655.77	101
	Jun 2014	70	46	7664.99	125
	Jul 2014	29	42	7660.05	112
	Aug 2014	20	38	7652.79	94
	Sep 2014	17	30	7647.59	81
<b>WY 2014</b>		<b>276</b>	<b>206</b>		
	Oct 2014	16	20	7645.65	77
	Nov 2014	9	8	7645.81	77

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 24-Month Study

Most Probable Inflow\*

### Navajo Reservoir



	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azetea 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)
*	Dec 2011	19	0	16	1	1	31	6057.10	1311	54
H	Jan 2012	18	0	16	1	1	30	6055.85	1296	50
I	Feb 2012	19	0	18	1	1	28	6054.95	1285	46
S	Mar 2012	74	7	61	2	6	31	6056.81	1308	70
T	Apr 2012	149	18	98	2	27	30	6059.88	1346	96
O	May 2012	131	17	105	4	34	110	6056.40	1303	176
R	Jun 2012	20	4	35	4	46	42	6051.70	1246	57
I	Jul 2012	10	1	33	4	44	52	6045.91	1178	60
C	Aug 2012	0	0	26	3	45	55	6038.86	1101	46
A	Sep 2012	-2	0	17	2	22	58	6032.62	1035	65
<b>WY 2012</b>		<b>522</b>	<b>53</b>	<b>490</b>	<b>26</b>	<b>236</b>	<b>521</b>			<b>821</b>
L	Oct 2012	3	0	3	1	11	40	6027.78	986	57
*	Nov 2012	9	0	7	1	0	23	6026.11	970	32
	Dec 2012	11	0	10	0	0	26	6024.41	954	26
	Jan 2013	12	0	11	0	0	28	6022.66	937	28
	Feb 2013	15	0	14	1	0	19	6022.07	931	19
	Mar 2013	39	1	36	1	2	18	6023.69	947	18
	Apr 2013	82	13	58	2	18	15	6026.14	970	15
	May 2013	151	29	111	3	32	15	6032.16	1030	15
	Jun 2013	163	17	138	3	48	15	6039.04	1102	15
	Jul 2013	25	2	44	4	53	39	6034.16	1051	39
	Aug 2013	20	0	39	3	45	60	6027.37	982	60
	Sep 2013	22	0	36	2	26	44	6023.70	947	44
<b>WY 2013</b>		<b>553</b>	<b>62</b>	<b>509</b>	<b>22</b>	<b>234</b>	<b>342</b>			<b>368</b>
	Oct 2013	32	0	31	1	7	38	6022.22	933	38
	Nov 2013	28	0	22	1	0	27	6021.59	927	27
	Dec 2013	25	0	20	0	0	28	6020.74	919	28
	Jan 2014	22	0	18	0	0	28	6019.65	909	28
	Feb 2014	30	0	27	1	0	25	6019.74	909	25
	Mar 2014	92	2	83	1	2	24	6025.58	965	24
	Apr 2014	170	14	135	2	18	21	6034.92	1059	21
	May 2014	277	37	200	3	33	40	6046.36	1183	40
	Jun 2014	224	32	167	4	48	86	6048.84	1212	86
	Jul 2014	66	6	72	4	53	22	6048.21	1205	22
	Aug 2014	45	2	61	3	46	28	6046.88	1189	28
	Sep 2014	43	0	55	2	26	29	6046.72	1188	29
<b>WY 2014</b>		<b>1055</b>	<b>94</b>	<b>891</b>	<b>23</b>	<b>232</b>	<b>395</b>			<b>395</b>
	Oct 2014	47	1	50	2	7	23	6048.31	1206	23
	Nov 2014	34	1	32	1	0	23	6049.04	1214	23

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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 (1000 Ac-Ft)
*	Dec 2011	363	490	33	1223	0	1223	3639.75	5332	15974	1226
H	Jan 2012	356	503	10	852	0	852	3636.91	5305	15641	846
I	Feb 2012	342	460	11	653	0	653	3635.28	5290	15453	654
S	Mar 2012	560	625	19	600	0	600	3635.33	5290	15458	607
T	Apr 2012	764	689	29	606	0	606	3635.76	5294	15508	612
O	May 2012	792	770	35	601	0	601	3636.83	5304	15632	606
R	Jun 2012	353	398	54	709	0	709	3633.90	5277	15294	712
I	Jul 2012	154	285	62	886	0	886	3628.45	5228	14680	892
C	Aug 2012	101	289	60	800	0	800	3623.62	5186	14151	810
A	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>
L	Oct 2012	190	294	37	498	0	498	3619.46	5150	13706	495
*	Nov 2012	246	273	35	652	78	730	3615.10	5114	13251	736
	Dec 2012	250	304	27	800	0	800	3610.36	5075	12766	800
	Jan 2013	250	309	8	800	0	800	3605.72	5038	12304	800
	Feb 2013	250	288	9	600	0	600	3602.68	5014	12007	600
	Mar 2013	390	340	14	600	0	600	3600.03	4994	11753	600
	Apr 2013	535	438	23	550	0	550	3598.71	4984	11628	550
	May 2013	925	731	27	600	0	600	3599.73	4992	11724	600
	Jun 2013	1490	1223	42	800	0	800	3603.40	5020	12077	800
	Jul 2013	635	655	51	802	0	802	3601.51	5005	11894	802
	Aug 2013	310	453	50	850	0	850	3597.15	4972	11480	850
	Sep 2013	295	408	45	600	0	600	3594.80	4955	11261	600
	<b>WY 2013</b>	<b>5766</b>	<b>5716</b>	<b>368</b>	<b>8152</b>	<b>78</b>	<b>8230</b>				<b>8233</b>
	Oct 2013	418	453	31	600	0	600	3593.02	4941	11096	600
	Nov 2013	429	426	30	600	0	600	3590.97	4926	10908	600
	Dec 2013	363	380	23	800	0	800	3586.40	4894	10498	800
	Jan 2014	361	387	7	800	0	800	3581.97	4862	10109	800
	Feb 2014	393	397	7	600	0	600	3579.71	4847	9915	600
	Mar 2014	665	550	12	600	0	600	3579.03	4842	9857	600
	Apr 2014	1056	822	20	600	0	600	3581.22	4857	10044	600
	May 2014	2343	1938	25	600	0	600	3594.80	4955	11261	600
	Jun 2014	2666	2224	42	650	0	650	3609.49	5068	12679	650
	Jul 2014	1091	987	54	850	0	850	3610.25	5074	12756	850
	Aug 2014	500	594	53	900	0	900	3606.92	5048	12423	900
	Sep 2014	408	519	48	630	0	630	3605.42	5036	12275	630
	<b>WY 2014</b>	<b>10692</b>	<b>9678</b>	<b>352</b>	<b>8230</b>	<b>0</b>	<b>8230</b>				<b>8230</b>
	Oct 2014	512	560	33	600	0	600	3604.73	5030	12207	600
	Nov 2014	473	508	32	600	0	600	3603.55	5021	12092	600

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Glen Release (1000 Ac-Ft)	Side Inflow (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)
*	Dec 2011	1223	84	45	497	8.1	9	482	952	1132.83	14644
H	Jan 2012	852	55	37	713	11.6	9	712	976	1134.18	15022
I	Feb 2012	653	44	34	775	13.5	10	775	969	1133.06	14907
S	Mar 2012	600	43	38	986	16.0	16	985	945	1129.41	14535
T	Apr 2012	606	46	46	1170	19.7	20	1163	909	1123.93	13986
O	May 2012	601	16	52	1008	16.4	30	1007	880	1119.38	13541
R	Jun 2012	709	7	62	989	16.6	28	989	858	1115.84	13200
I	Jul 2012	886	69	77	841	13.7	29	820	858	1115.92	13207
C	Aug 2012	800	169	82	798	13.0	24	792	862	1116.56	13269
A	Sep 2012	481	97	67	635	10.7	18	634	854	1115.16	13135
	<b>WY 2012</b>	<b>9466</b>	<b>732</b>	<b>638</b>	<b>9421</b>		<b>226</b>	<b>9356</b>			
L	Oct 2012	498	53	49	346	5.6	20	331	862	1116.50	13263
*	Nov 2012	730	59	49	650	10.9	14	649	867	1117.24	13334
	Dec 2012	800	108	43	490	8.0	20	490	888	1120.69	13669
	Jan 2013	800	78	35	600	9.8	16	600	902	1122.86	13881
	Feb 2013	600	98	32	643	11.6	19	643	903	1122.90	13885
	Mar 2013	600	78	36	957	15.6	22	957	882	1119.65	13568
	Apr 2013	550	76	44	1098	18.5	15	1098	849	1114.47	13069
	May 2013	600	64	50	1001	16.3	25	1001	824	1110.37	12682
	Jun 2013	800	33	60	920	15.5	23	920	814	1108.67	12523
	Jul 2013	802	54	74	905	14.7	29	905	805	1107.12	12380
	Aug 2013	850	103	78	834	13.6	24	834	806	1107.28	12395
	Sep 2013	600	74	64	662	11.1	20	662	801	1106.56	12329
	<b>WY 2013</b>	<b>8230</b>	<b>879</b>	<b>615</b>	<b>9106</b>		<b>246</b>	<b>9089</b>			
	Oct 2013	600	49	47	500	8.1	18	500	807	1107.42	12408
	Nov 2013	600	46	47	612	10.3	24	612	804	1107.03	12372
	Dec 2013	800	108	41	537	8.7	19	537	823	1110.19	12665
	Jan 2014	800	78	34	673	10.9	20	673	832	1111.70	12807
	Feb 2014	600	98	31	679	12.2	18	679	831	1111.40	12778
	Mar 2014	600	78	34	1034	16.8	24	1034	805	1107.22	12389
	Apr 2014	600	76	42	1108	18.6	20	1108	775	1102.11	11924
	May 2014	600	64	47	991	16.1	31	991	750	1097.84	11544
	Jun 2014	650	33	56	935	15.7	26	935	730	1094.28	11230
	Jul 2014	850	54	70	931	15.1	28	931	722	1092.93	11112
	Aug 2014	900	103	74	839	13.6	31	839	726	1093.57	11168
	Sep 2014	630	74	61	658	11.1	22	658	724	1093.17	11133
	<b>WY 2014</b>	<b>8230</b>	<b>861</b>	<b>584</b>	<b>9499</b>		<b>282</b>	<b>9499</b>			
	Oct 2014	600	49	45	438	7.1	26	438	732	1094.67	11264
	Nov 2014	600	46	45	528	8.9	25	528	735	1095.18	11309

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	497	-28	9	385	0	385	6.3	638.82	1586
H	Jan 2012	713	-23	10	638	0	638	10.4	640.38	1628
I	Feb 2012	775	-18	10	726	0	726	12.6	641.20	1650
S	Mar 2012	986	-23	13	931	0	931	15.1	641.93	1670
T	Apr 2012	1170	-24	17	1091	0	1091	18.3	643.35	1708
O	May 2012	1008	-14	22	980	0	980	15.9	643.06	1700
R	Jun 2012	989	-19	25	952	0	952	16.0	642.80	1693
I	Jul 2012	841	-9	25	805	0	805	13.1	642.89	1696
C	Aug 2012	798	-11	23	744	0	744	12.1	643.63	1716
A	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>			
L	Oct 2012	346	-3	14	556	0	556	9.0	630.75	1377
*	Nov 2012	650	-11	10	499	0	499	8.4	635.82	1507
	Dec 2012	490	-19	9	386	0	386	6.3	638.70	1583
	Jan 2013	600	-13	10	502	0	502	8.2	641.50	1658
	Feb 2013	643	-6	10	619	0	619	11.1	641.80	1666
	Mar 2013	957	-14	13	895	0	895	14.6	643.05	1700
	Apr 2013	1098	-14	17	1069	0	1069	18.0	643.00	1699
	May 2013	1001	-14	22	964	0	964	15.7	643.00	1699
	Jun 2013	920	-10	25	911	0	911	15.3	642.00	1671
	Jul 2013	905	-4	25	889	0	889	14.5	641.50	1658
	Aug 2013	834	-7	23	804	0	804	13.1	641.50	1658
	Sep 2013	662	0	18	737	0	737	12.4	638.00	1564
	<b>WY 2013</b>	<b>9106</b>	<b>-118</b>	<b>196</b>	<b>8833</b>	<b>0</b>	<b>8833</b>			
	Oct 2013	500	0	15	616	0	616	10.0	633.00	1434
	Nov 2013	612	-15	10	536	0	536	9.0	635.00	1486
	Dec 2013	537	-19	9	411	0	411	6.7	638.71	1583
	Jan 2014	673	-13	10	567	0	567	9.2	641.80	1666
	Feb 2014	679	-6	10	663	0	663	11.9	641.80	1666
	Mar 2014	1034	-14	13	972	0	972	15.8	643.05	1700
	Apr 2014	1108	-14	17	1080	0	1080	18.1	643.00	1699
	May 2014	991	-14	22	955	0	955	15.5	643.00	1699
	Jun 2014	935	-10	25	927	0	927	15.6	642.00	1671
	Jul 2014	931	-4	25	915	0	915	14.9	641.50	1658
	Aug 2014	839	-7	23	809	0	809	13.2	641.50	1658
	Sep 2014	658	0	18	733	0	733	12.3	638.00	1564
	<b>WY 2014</b>	<b>9499</b>	<b>-118</b>	<b>197</b>	<b>9184</b>	<b>0</b>	<b>9184</b>			
	Oct 2014	438	0	15	554	0	554	9.0	633.00	1434
	Nov 2014	528	-15	10	451	0	451	7.6	635.00	1486

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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)
*	Dec 2011	385	27	6	267	4.3	15	151	445.69	537	108	1.7
H	Jan 2012	638	11	6	382	6.2	54	187	446.61	554	131	2.1
I	Feb 2012	726	11	8	497	8.6	49	169	447.10	563	159	2.8
S	Mar 2012	931	8	9	711	11.6	21	187	447.23	565	187	3.0
T	Apr 2012	1091	24	11	785	13.2	97	180	449.13	602	183	3.1
O	May 2012	980	26	13	709	11.5	100	179	448.81	596	99	1.6
R	Jun 2012	952	10	15	719	12.1	97	130	448.23	584	103	1.7
I	Jul 2012	805	46	17	675	11.0	101	34	448.91	598	124	2.0
C	Aug 2012	744	26	17	568	9.2	100	85	448.38	587	97	1.6
A	Sep 2012	723	31	15	548	9.2	74	137	446.98	561	90	1.5
	<b>WY 2012</b>	<b>9051</b>	<b>288</b>	<b>140</b>	<b>6652</b>		<b>723</b>	<b>1763</b>			<b>1435</b>	
L	Oct 2012	556	34	12	482	7.8	14	32	449.31	606	70	1.1
*	Nov 2012	499	28	9	348	5.9	14	174	448.06	581	89	1.5
	Dec 2012	386	26	7	291	4.7	14	126	446.50	552	89	1.5
	Jan 2013	502	15	6	349	5.7	62	86	447.00	561	130	2.1
	Feb 2013	619	7	8	463	8.3	10	149	446.50	552	158	2.9
	Mar 2013	895	18	9	682	11.1	34	177	446.70	555	187	3.0
	Apr 2013	1069	19	11	786	13.2	74	171	448.70	593	205	3.5
	May 2013	964	18	13	703	11.4	77	177	448.70	593	112	1.8
	Jun 2013	911	15	16	698	11.7	74	125	448.70	593	114	1.9
	Jul 2013	889	21	17	732	11.9	77	84	448.00	580	115	1.9
	Aug 2013	804	22	17	644	10.5	80	83	447.50	571	105	1.7
	Sep 2013	737	20	15	556	9.3	74	116	446.81	557	102	1.7
	<b>WY 2013</b>	<b>8833</b>	<b>244</b>	<b>140</b>	<b>6735</b>		<b>603</b>	<b>1499</b>			<b>1476</b>	
	Oct 2013	616	23	12	448	7.3	48	133	446.31	548	64	1.0
	Nov 2013	536	32	8	374	6.3	47	128	446.50	552	102	1.7
	Dec 2013	411	26	6	275	4.5	48	103	446.50	552	106	1.7
	Jan 2014	567	15	6	350	5.7	81	140	446.50	552	122	2.0
	Feb 2014	663	7	8	451	8.1	71	135	446.50	552	153	2.8
	Mar 2014	972	18	9	711	11.6	81	177	446.70	555	208	3.4
	Apr 2014	1080	19	11	792	13.3	78	171	448.70	593	200	3.4
	May 2014	955	18	13	690	11.2	81	177	448.70	593	111	1.8
	Jun 2014	927	15	16	681	11.4	78	154	448.70	593	112	1.9
	Jul 2014	915	21	17	740	12.0	81	98	448.00	580	118	1.9
	Aug 2014	809	22	17	632	10.3	81	97	447.50	571	92	1.5
	Sep 2014	733	20	15	543	9.1	52	146	446.81	557	89	1.5
	<b>WY 2014</b>	<b>9184</b>	<b>237</b>	<b>139</b>	<b>6688</b>		<b>828</b>	<b>1660</b>			<b>1477</b>	
	Oct 2014	554	23	12	451	7.3	7	109	446.31	548	72	1.2
	Nov 2014	451	32	8	381	6.4	7	77	446.50	552	105	1.8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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
*	Dec 2011	497	8.1	1132.83	14644	711	488.04	1374.0	207.2	75	417.3
H	Jan 2012	713	11.6	1134.18	15022	139	485.97	1146.0	308.0	61	432.1
I	Feb 2012	775	13.5	1133.06	14907	-115	484.32	1282.0	338.6	68	436.7
S	Mar 2012	986	16.0	1129.41	14535	-372	481.45	1047.0	427.4	56	433.4
T	Apr 2012	1170	19.7	1123.93	13986	-548	475.07	1164.0	505.3	62	432.0
O	May 2012	1008	16.4	1119.38	13541	-445	471.90	1050.0	429.0	56	425.4
R	Jun 2012	989	16.6	1115.84	13200	-341	470.21	1829.0	414.2	100	418.8
I	Jul 2012	841	13.7	1115.92	13207	8	471.23	1374.0	349.7	76	415.6
C	Aug 2012	798	13.0	1116.56	13269	61	471.53	1809.0	331.4	100	415.2
A	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>		
L	Oct 2012	346	5.6	1116.50	13263	128	476.50	1051.0	141.3	58	409.0
*	Nov 2012	650	10.9	1117.24	13334	71	473.22	1051.0	276.3	58	424.7
	Dec 2012	490	8.0	1120.69	13669	334	470.71	1520.0	202.9	84	414.2
	Jan 2013	600	9.8	1122.86	13881	213	474.43	1079.0	253.4	59	422.1
	Feb 2013	643	11.6	1122.90	13885	4	474.55	1074.0	275.0	59	427.6
	Mar 2013	957	15.6	1119.65	13568	-317	470.97	1305.0	411.1	72	429.6
	Apr 2013	1098	18.5	1114.47	13069	-499	467.80	1052.0	483.1	59	439.9
	May 2013	1001	16.3	1110.37	12682	-387	462.96	1076.0	426.1	61	425.8
	Jun 2013	920	15.5	1108.67	12523	-159	456.13	1752.0	376.9	100	409.8
	Jul 2013	905	14.7	1107.12	12380	-143	455.01	1746.0	367.5	100	406.1
	Aug 2013	834	13.6	1107.28	12395	15	454.49	1748.0	342.6	100	410.6
	Sep 2013	662	11.1	1106.56	12329	-67	455.35	1744.0	265.1	100	400.7
<b>WY 2013</b>		<b>9106</b>							<b>3821.3</b>		
	Oct 2013	500	8.1	1107.42	12408	79	459.88	1374.0	204.3	79	408.5
	Nov 2013	612	10.3	1107.03	12372	-36	461.67	1386.0	251.5	79	410.7
	Dec 2013	537	8.7	1110.19	12665	292	461.21	1395.0	214.9	79	400.3
	Jan 2014	673	10.9	1111.70	12807	142	462.40	1226.0	276.6	69	411.0
	Feb 2014	679	12.2	1111.40	12778	-29	460.69	1436.0	280.7	81	413.3
	Mar 2014	1034	16.8	1107.22	12389	-389	457.42	1517.0	425.4	87	411.5
	Apr 2014	1108	18.6	1102.11	11924	-465	452.98	1401.0	460.9	82	415.8
	May 2014	991	16.1	1097.84	11544	-381	450.57	1048.5	411.1	61	414.6
	Jun 2014	935	15.7	1094.28	11230	-314	442.77	1718.0	373.6	100	399.5
	Jul 2014	931	15.1	1092.93	11112	-118	440.83	1718.0	368.8	100	396.0
	Aug 2014	839	13.6	1093.57	11168	56	440.64	1718.0	335.1	100	399.4
	Sep 2014	658	11.1	1093.17	11133	-35	441.90	1718.0	256.8	100	390.0
<b>WY 2014</b>		<b>9499</b>							<b>3859.6</b>		
	Oct 2014	438	7.1	1094.67	11264	132	446.89	1349.6	172.0	79	392.3
	Nov 2014	528	8.9	1095.18	11309	45	449.43	1363.8	207.4	79	392.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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
*	Dec 2011	385	6.3	638.82	1586	74	135.59	173.4	48.1	68	124.9
H	Jan 2012	638	10.4	640.38	1628	42	138.75	170.9	77.2	67	121.0
I	Feb 2012	726	12.6	641.20	1650	22	140.80	163.2	90.8	64	125.1
S	Mar 2012	931	15.1	641.93	1670	20	140.23	204.0	117.4	80	126.2
T	Apr 2012	1091	18.3	643.35	1708	39	142.08	249.9	147.4	98	135.2
O	May 2012	980	15.9	643.06	1700	-8	141.39	252.5	128.9	99	131.5
R	Jun 2012	952	16.0	642.80	1693	-7	140.12	255.0	122.6	100	128.8
I	Jul 2012	805	13.1	642.89	1696	2	143.36	255.0	100.7	100	125.1
C	Aug 2012	744	12.1	643.63	1716	20	142.43	252.5	92.5	99	124.3
A	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>		
L	Oct 2012	556	9.0	630.75	1377	-228	130.98	206.6	68.5	81	123.3
*	Nov 2012	499	8.4	635.82	1507	130	136.16	168.3	67.9	66	136.0
	Dec 2012	386	6.3	638.70	1583	76	132.06	186.2	47.6	73	123.3
	Jan 2013	502	8.2	641.50	1658	75	135.81	163.2	62.8	64	125.1
	Feb 2013	619	11.1	641.80	1666	8	137.53	158.1	77.6	62	125.3
	Mar 2013	895	14.6	643.05	1700	34	136.42	219.3	111.8	86	124.9
	Apr 2013	1069	18.0	643.00	1699	-2	136.07	255.0	133.0	100	124.4
	May 2013	964	15.7	643.00	1699	0	136.04	255.0	120.6	100	125.1
	Jun 2013	911	15.3	642.00	1671	-27	135.51	255.0	113.7	100	124.7
	Jul 2013	889	14.5	641.50	1658	-14	134.73	255.0	110.5	100	124.3
	Aug 2013	804	13.1	641.50	1658	0	134.46	255.0	100.2	100	124.5
	Sep 2013	737	12.4	638.00	1564	-94	132.62	255.0	90.8	100	123.2
<b>WY 2013</b>		<b>8833</b>							<b>1105.0</b>		
	Oct 2013	616	10.0	633.00	1434	-130	129.33	214.2	74.0	84	120.2
	Nov 2013	536	9.0	635.00	1486	51	127.83	211.7	63.9	83	119.3
	Dec 2013	411	6.7	638.71	1583	97	130.91	209.1	50.5	82	122.8
	Jan 2014	567	9.2	641.80	1666	83	134.46	209.1	70.8	82	124.8
	Feb 2014	663	11.9	641.80	1666	0	136.08	209.1	83.0	82	125.2
	Mar 2014	972	15.8	643.05	1700	34	135.44	255.0	121.0	100	124.5
	Apr 2014	1080	18.1	643.00	1699	-2	136.07	255.0	134.3	100	124.4
	May 2014	955	15.5	643.00	1699	0	136.04	255.0	119.5	100	125.1
	Jun 2014	927	15.6	642.00	1671	-27	135.51	255.0	115.5	100	124.6
	Jul 2014	915	14.9	641.50	1658	-14	134.73	255.0	113.6	100	124.2
	Aug 2014	809	13.2	641.50	1658	0	134.46	255.0	100.7	100	124.5
	Sep 2014	733	12.3	638.00	1564	-94	132.62	255.0	90.4	100	123.2
<b>WY 2014</b>		<b>9184</b>							<b>1137.2</b>		
	Oct 2014	554	9.0	633.00	1434	-130	129.33	214.2	66.8	84	120.6
	Nov 2014	451	7.6	635.00	1486	51	127.83	211.7	54.1	83	119.8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 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
*	Dec 2011	267	4.3	445.69	537	-30	81.08	67.2	17.7	56	66.2
H	Jan 2012	382	6.2	446.61	554	17	80.68	67.2	25.6	56	67.1
I	Feb 2012	497	8.6	447.10	563	9	80.85	94.8	35.1	79	70.7
S	Mar 2012	711	11.6	447.23	565	2	81.75	97.2	48.8	81	68.6
T	Apr 2012	785	13.2	449.13	602	36	83.37	120.0	54.1	100	69.0
O	May 2012	709	11.5	448.81	596	-6	81.37	111.6	49.6	93	69.9
R	Jun 2012	719	12.1	448.23	584	-11	79.00	120.0	49.7	100	69.1
I	Jul 2012	675	11.0	448.91	598	13	82.94	120.0	46.8	100	69.4
C	Aug 2012	568	9.2	448.38	587	-10	80.54	120.0	39.3	100	69.2
A	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>			
L	Oct 2012	482	7.8	449.31	606	44	83.52	96.0	33.3	80	69.0
*	Nov 2012	348	5.9	448.06	581	-24	82.22	92.4	24.1	77	69.2
	Dec 2012	291	4.7	446.50	552	-29	75.41	103.2	18.4	86	63.4
	Jan 2013	349	5.7	447.00	561	9	74.96	102.0	22.3	85	63.9
	Feb 2013	463	8.3	446.50	552	-9	74.16	120.0	29.8	100	64.4
	Mar 2013	682	11.1	446.70	555	4	74.01	120.0	44.3	100	64.9
	Apr 2013	786	13.2	448.70	593	38	75.08	120.0	51.9	100	66.0
	May 2013	703	11.4	448.70	593	0	76.05	120.0	46.8	100	66.5
	Jun 2013	698	11.7	448.70	593	0	76.05	120.0	46.4	100	66.5
	Jul 2013	732	11.9	448.00	580	-13	75.71	120.0	48.5	100	66.3
	Aug 2013	644	10.5	447.50	571	-10	75.13	120.0	42.3	100	65.6
	Sep 2013	556	9.3	446.81	557	-13	74.55	120.0	36.1	100	64.9
<b>WY 2013</b>		<b>6735</b>						<b>444.1</b>			
	Oct 2013	448	7.3	446.31	548	-9	74.77	102.0	28.9	85	64.6
	Nov 2013	374	6.3	446.50	552	3	74.62	102.0	24.0	85	64.0
	Dec 2013	275	4.5	446.50	552	0	74.71	102.0	17.2	85	62.7
	Jan 2014	350	5.7	446.50	552	0	74.71	102.0	22.3	85	63.8
	Feb 2014	451	8.1	446.50	552	0	73.92	120.0	28.9	100	64.2
	Mar 2014	711	11.6	446.70	555	4	74.01	120.0	46.2	100	64.9
	Apr 2014	792	13.3	448.70	593	38	75.08	120.0	52.3	100	66.0
	May 2014	690	11.2	448.70	593	0	76.05	120.0	45.8	100	66.4
	Jun 2014	681	11.4	448.70	593	0	76.05	120.0	45.3	100	66.5
	Jul 2014	740	12.0	448.00	580	-13	75.71	120.0	49.1	100	66.3
	Aug 2014	632	10.3	447.50	571	-10	75.13	120.0	41.5	100	65.6
	Sep 2014	543	9.1	446.81	557	-13	74.55	120.0	35.2	100	64.9
<b>WY 2014</b>		<b>6688</b>						<b>436.8</b>			
	Oct 2014	451	7.3	446.31	548	-9	74.77	102.0	29.1	85	64.6
	Nov 2014	381	6.4	446.50	552	3	74.62	102.0	24.4	85	64.1

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



	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
* Dec 2011	563	43	25	30	17	6
H Jan 2012	388	58	15	18	10	5
I Feb 2012	295	54	9	12	2	4
S Mar 2012	275	62	9	12	6	4
<b>Winter 2012</b>	<b>2475</b>	<b>300</b>	<b>97</b>	<b>117</b>	<b>61</b>	<b>26</b>
T Apr 2012	276	47	16	22	14	4
O May 2012	276	61	19	28	17	4
R Jun 2012	324	34	26	33	19	7
I Jul 2012	398	33	24	31	18	6
C Aug 2012	360	31	21	28	16	6
A 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>
L Oct 2012	221	20	8	13	6	2
Dec 2012	323	25	6	6	3	4
Jan 2013	320	27	4	6	3	4
Feb 2013	238	24	3	5	3	3
Mar 2013	237	18	5	7	4	4
<b>Winter 2013</b>	<b>1340</b>	<b>114</b>	<b>26</b>	<b>38</b>	<b>19</b>	<b>17</b>
Apr 2013	216	17	8	13	8	4
May 2013	236	35	15	25	15	6
Jun 2013	316	46	16	23	13	7
Jul 2013	317	22	26	35	18	8
Aug 2013	334	22	27	36	18	7
Sep 2013	234	21	21	29	15	6
<b>Summer 2013</b>	<b>1653</b>	<b>164</b>	<b>112</b>	<b>159</b>	<b>87</b>	<b>38</b>
Oct 2013	233	22	12	17	9	6
Nov 2013	232	21	4	6	4	6
Dec 2013	307	22	4	6	4	6
Jan 2014	304	22	6	9	5	5
Feb 2014	226	20	6	8	5	4
Mar 2014	226	22	7	11	6	4
<b>Winter 2014</b>	<b>1528</b>	<b>130</b>	<b>39</b>	<b>57</b>	<b>33</b>	<b>32</b>
Apr 2014	226	21	10	17	10	5
May 2014	230	41	33	52	23	7
Jun 2014	257	82	12	22	17	9
Jul 2014	342	37	32	40	22	10
Aug 2014	361	37	35	42	22	7
Sep 2014	251	36	28	35	18	6
<b>Summer 2014</b>	<b>1415</b>	<b>219</b>	<b>123</b>	<b>174</b>	<b>94</b>	<b>37</b>
Oct 2014	239	37	18	22	12	6
Nov 2014	238	36	9	11	6	6

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## December 2012 24-Month Study

Most Probable Inflow\*

### Flood Control Criteria

#### Beginning of Month Conditions



Date	Flaming	Blue	Navajo	Lake	Upper Basin	Lake	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space	Mead	Mead	Sys		
	George	Mesa		Powell	Total	Mead		George	Mesa	Allow	Powell	Mead	Total	Required	Sched Rel	FC Rel	Cont	
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF		
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Dec 2012	848	503	726	11071	13149	14043	27192	848	503	726	2078	11071	14043	27192	4580	490	0	33.2
Jan 2013	891	506	742	11556	13695	13708	27404	891	506	742	2139	11556	13708	27404	5350	600	0	33.0
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2013	891	506	742	11556	13695	13708	27404	237	130	264	632	11556	13708	25896	5350	600	0	33.0
Feb 2013	937	503	759	12018	14218	13496	27713	282	129	280	692	12018	13496	26205	1500	643	0	32.7
Mar 2013	974	500	765	12315	14553	13492	28045	316	128	285	730	12315	13492	26537	1500	957	0	32.2
Apr 2013	952	493	749	12569	14764	13809	28573	290	123	267	680	12569	13809	27058	1500	1098	0	31.7
May 2013	920	471	726	12694	14811	14308	29119	252	100	224	575	12694	14308	27578	1500	1001	0	31.6
Jun 2013	869	421	666	12598	14553	14695	29248	191	41	128	360	12598	14695	27653	1500	920	0	32.0
Jul 2013	773	355	594	12245	13966	14854	28820	84	-35	5	54	12245	14854	27153	1500	905	0	31.6
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2013	705	385	645	12428	14163	14997	29159	705	385	645	1735	12428	14997	29159	1500	834	0	31.0
Sep 2013	718	432	714	12842	14706	14982	29688	718	432	714	1864	12842	14982	29688	2270	662	0	30.5
Oct 2013	748	471	749	13061	15029	15048	30077	748	471	749	1968	13061	15048	30077	3040	500	0	30.3
Nov 2013	767	478	763	13226	15234	14969	30203	767	478	763	2009	13226	14969	30203	3810	612	0	30.1
Dec 2013	784	464	769	13414	15431	15005	30436	784	464	769	2017	13414	15005	30436	4580	537	0	30.0
Jan 2014	812	454	777	13824	15867	14712	30580	812	454	777	2043	13824	14712	30580	5350	673	0	29.8
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2014	812	454	777	13824	15867	14712	30580	493	386	455	1335	13824	14712	29871	5350	673	0	29.8
Feb 2014	836	454	787	14213	16289	14570	30859	514	386	465	1364	14213	14570	30147	1500	679	0	29.6
Mar 2014	850	452	787	14407	16495	14599	31093	524	385	463	1372	14407	14599	30378	1500	1034	0	29.3
Apr 2014	814	441	731	14465	16451	14988	31439	483	374	405	1261	14465	14988	30714	1500	1108	0	29.3
May 2014	747	405	637	14278	16067	15453	31519	408	333	291	1032	14278	15453	30762	1500	991	0	30.4
Jun 2014	625	323	513	13061	14522	15833	30355	275	230	131	635	13061	15833	29530	1500	935	0	31.9
Jul 2014	473	129	484	11643	12729	16147	28877	109	11	50	170	11643	16147	27960	1500	931	0	31.9
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2014	382	122	491	11566	12562	16265	28827	382	122	491	996	11566	16265	28827	1500	839	0	31.6
Sep 2014	409	167	507	11899	12981	16209	29191	409	167	507	1082	11899	16209	29191	2270	658	0	31.2
Oct 2014	464	215	508	12047	13234	16244	29478	464	215	508	1187	12047	16244	29478	3040	438	0	31.0
Nov 2014	514	233	490	12115	13351	16113	29464	514	233	490	1237	12115	16113	29464	3810	528	0	31.0

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