

**April 24-Month Study**  
**Date: April 10, 2012**

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

**Current Reservoir Status**

Reservoir	March Inflow (unregulated) (acre-feet)	Percent of Average (%)	April 9 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	64,000	122	6473.31	134,000
Flaming Gorge	104,000	102	6026.41	3,213,000
Blue Mesa	40,000	111	7484.91	542,000
Navajo	74,000	80	6058.15	1,324,000
Powell	560,000	84	3635.74	15,506,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this April 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). Pursuant to the Interim Guidelines, the August 2011 24-Month Study projections of the January 1, 2012 system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2012.

Consistent with Section 6.A of the Interim Guidelines, the Lake Powell operational tier for water year 2012 is the Equalization Tier. The April 2012 24-Month Study projects the water year release volume from Lake Powell for 2012 to be 9.46 maf.

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 2012.

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>.

**Fontenelle Reservoir** – Inflows for the month of March were 64 kaf, or 122% of average. The reservoir elevation is 6472 feet above sea level and 37% of capacity. Current inflows are approximately 1,600 cfs and reservoir releases are 1,000 cfs. Releases will likely be close to 1,000 cfs through most of April and the reservoir elevation will continue to increase throughout the spring and summer. Basin snowpack peaked on March 21<sup>st</sup>, approximately three weeks early, at 84% of average and the low and middle elevation snow has begun to melt. Current snowpack above Fontenelle Reservoir is 78% of average.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the April coordinated forecast for the April to July 2012 runoff season. Inflows are forecasted to be 665 kaf, or 92% of average. The April forecast decreased by 9% since the March official forecast. Inflows over the next three months are forecasted by the River Forecast Center to be: 90 kaf (106%), 135 kaf (82%) and 280 kaf (94%) for April, May, and June respectively.

The next Fontenelle Working Group meeting is scheduled for April 26, 2012 at 10:00 am at the Seedskadee National Wildlife Refuge visitor's center. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir.

**Flaming Gorge Reservoir** – Unregulated inflow into Flaming Gorge Reservoir during the month of March was 104 thousand acre-feet (kaf), or 102 percent of 1981-2010 average inflow. Flaming Gorge Reservoir is decreasing releases to an average daily release rate of 1,600 cfs and is anticipated to maintain releases during April and May. Flaming Gorge reservoir elevation has reached the May 1 target elevation of 6027 feet.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the joint water supply forecast for the April-July runoff season. The April forecast for April-July unregulated inflow volume is 810 kaf (83 percent of average), which is a decrease of 13 percent from the previous forecast. This volume corresponds with the average classification within the 2006 Record of Decision. The unregulated inflow volumes and percent of average for April, May and June are forecasted to be 135 kaf (101%), 195 kaf (80%), and 315 kaf (81%), respectively.

The next Flaming Gorge Working Group meeting is scheduled for April 18, 2012, at 1:00 p.m. at the Western Park Convention Center, 302 East 200 South, Vernal, Utah. 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 Heather Hermansen at 801-524-3883 or Ed Vidmar at 801-379-1182.

**Aspinall Reservoirs** – March unregulated inflow into Blue Mesa Reservoir was 40,000 acre-feet or 112 percent of average. On March 10, 2012 the basin snowpack was 78 percent of average; it now stands at 48 percent and falling fast. This is indicative of an early melt with very little snowpack. Precipitation during March was only 30 percent of average. The current inflow rate into Blue Mesa Reservoir is about 750 cfs while reservoir releases are averaging about 850 cfs. The reservoir elevation is currently at 7484.91 feet, which corresponds to a storage content of about 542,000 acre-feet.

The latest Water Supply Forecast for Water Year 2012 has been issued and the April through July unregulated inflow is forecasted to be at 330,000 acre-feet (49% of average), this is 120,000 acre-feet lower than last month's forecast. If this forecast holds through May 1<sup>st</sup>, the Black Canyon Water Right would call for a one day peak flow of 958 cfs. At this time Reclamation plans to continue to operate the Aspinall Unit to allow the water right to be met. Based on this forecast and the combination of meeting the Black Canyon Water this coming spring, Blue Mesa Reservoir is projected to not fill this runoff season. The projected fill is calculated to be about 7500.0 feet, or about 19.5 feet short of top of active conservation pool.

Releases from Crystal are currently set at 1050 cfs. The Gunnison Diversion Tunnel is currently diverting about 700 cfs, which results in a river flow below the diversion tunnel of approximately 350 cfs. This lower flow is a result of Reclamation trying to conserve reservoir storage for what is forecasted to be a very dry year.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday, April 26, 2012 starting at 1:00 PM in Reclamation's Grand Junction Office. At this meeting, review of this winter's reservoir operations, and plans for this spring and summer 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** - Releases from Navajo Reservoir remain near a constant 500 cfs. Reservoir 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 gauged flows throughout the critical habitat area, therefore daily flows of less than 500 cfs may occur at some gages.

The current San Juan River basin snowpack as of April 10<sup>th</sup> is only 45% of average snow water equivalent (SWE), which is down from 81% in one month. For the Animas River Basin it is 43% which is down from 82% from last month. This indicates an early

snowmelt. Pending significant changes in the weather and stream flow conditions, the reservoir release will likely remain at 500 cfs through this spring (2012).

Precipitation for the month of March in the San Juan River basin was about 35% of average as compared to February's 125% and January's 70% average. Unregulated inflow into Navajo Reservoir during the month of March was 74,000 acre-feet, or 80 percent of average. Currently, the daily reservoir inflow is averaging about 1,600 cfs. Diversions for NIIP have currently restarted and have been as high as 450 cfs. The reservoir water surface elevation is at 6058.15 feet, which corresponds to a storage content of about 1,324,000 acre-feet.

A public meeting on Navajo Reservoir operations will be held on Wednesday, April 24, 2012, starting at 1:00 pm at the Civic Center in Farmington, New Mexico (200 West Arrington Street). At this meeting, review of this winter's reservoir operations, and plans for this spring and summer 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** – The monthly unregulated inflow volume to Lake Powell for March was 560 thousand acre-feet (kaf) (84% of average). This was 10 kaf above what was forecasted in early March. The release volume from Glen Canyon Dam in March was 600 kaf which was exactly equal to what was projected for release for the month. As a result of the difference between projected and actual inflows during March, the elevation of Lake Powell at the end of March was 0.36 feet (about 4 inches) higher than projected. On March 31, 2012 the elevation of Lake Powell was 3635.33 feet above sea level (64.67 feet below full pool).

Snowpack conditions above Lake Powell are currently 43% of average (April 10, 2012) and this percentage has dropped significantly over the past month. The runoff season appears to have started about one month earlier than normal due to above normal temperatures during March and April. The Colorado Basin River Forecast Center updated their Water Supply Forecast for Lake Powell (April through July Unregulated Inflow Volume) from the March forecast, which was 5.30 maf (74% of average), to the April forecast which is now 3.50 maf (49% of average). This forecast was updated on April 3, 2012.

### **Current Dam Operations**

In August 2011, pursuant to the Interim Guidelines, the Operating Tier for Glen Canyon Dam was established to be the Equalization Tier. Under the Equalization Tier for 2012, with 1.233 maf of release carried over from 2011 to 2012, the annual release volume for 2012 could be as low as 9.46 maf or higher depending on actual inflow conditions. 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 2012 to achieve Equalization objectives as practicably as possible by September 30, 2012.

Releases from Glen Canyon Dam are now averaging about 10,083 cfs with fluctuations for power generation throughout the day that peak near 13,000 cfs in the afternoons and with early morning low level releases are about 7,000 cfs and this operation is consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The release volume for April is scheduled to be 600 kaf. In May, the monthly release volume will likely be 600 kaf as well depending on snowpack and forecast conditions. Release fluctuations in May would likely be similar to April ranging from 7,000 cfs, in the early morning, to 13,000 cfs, in the afternoon.

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 1100 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). There are many generators that supply electricity to the transmission system within the balancing area. At times, a participating generator may experience operating conditions such that it cannot make its scheduled delivery of electricity to the system (i.e. unscheduled outage). To provide system reliability, all participating electricity generators within the balancing area maintain a specified level of generation capacity (i.e. reserves) that can be called upon when an unscheduled outage occurs. Glen Canyon Dam typically maintains 113 MW of reserves for this purpose.

Reserve agreements allow the controllers of the balancing area to call upon Glen Canyon Dam to produce up to an additional 113 MW of electricity beyond what is originally scheduled for a given hour. Reserve calls can be maintained for a maximum of 2 hours after which time the generation rate should be returned to the original schedule. The 113 MW reserve requirement for Glen Canyon Dam translates to approximately 2,800 cfs of flow in the river. When the balancing area controllers call for reserve generation from Glen Canyon Dam, releases from the dam can exceed scheduled levels and have a noticeable impact on the river downstream from Glen Canyon Dam. But these calls for reserves are fairly infrequent and typically are for much less than the required level of 113 MW.

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

Over the next three months (April, May and June) the forecasted unregulated inflow volume to Lake Powell is projected to be 800 kaf (76% of average), 1050 kaf (45% of average) and 1,150 kaf (43% of average), respectively. These percent of averages are all based on the historic period from 1981 through 2010. Combining this forecast with the April Water Supply Forecast and extending projections to the end of WY2012, the most probable (i.e. 50% likely to be exceeded) unregulated inflow volume for WY2012 is projected to be 6.79 maf (63% of average). There is still a fair amount of uncertainty associated with this forecast. Recent analysis indicates that it is reasonably possible for the actual unregulated inflow volume for water year 2012 to be as low as 4.89 maf (45% of average) or as high as 9.22 maf (85% of average) depending on the range of precipitation patterns that could occur over the next several months.

Based on the reasonable range of inflow conditions that could occur this year, the annual release volume from Glen Canyon Dam could be as low as 9.46 maf to as high as 9.98 maf. Under the most probable inflow condition, the annual release volume is projected to be 9.46 maf and the elevation of Lake Powell at the end of WY2012 is projected to be 3632.55 feet above sea level. This elevation corresponds to a live storage volume of 15.14 maf (62% of full capacity).

## **Upper Colorado River Basin Hydrology**

Since water year 2005, hydrologic conditions in the Upper Colorado River Basin have been near average with significant variability from year to year. The unregulated inflow to Lake Powell, which is a good measure of the hydrologic condition in the Colorado River Basin, has averaged a water year volume of 10.98 maf (101% of average (period 1981-2010)) during the period from 2005 through 2011. The hydrologic variability during this period has been from a low water year unregulated inflow volume of 8.62 maf (80% of average) in water year 2006 to a high water year unregulated inflow volume of 15.97 maf (147% of average) which occurred in water year 2011.

Overall reservoir storage in the Colorado River Basin has increased by over 8 maf since the beginning of water year 2005 and this is a significant improvement over the drought conditions during water years 2000 through 2004. On October 1, 2004, the beginning of water year 2005, the total reservoir storage in the Colorado River Basin was 29.84 maf (50.2% of capacity). On October 1, 2011, the beginning of water year 2012, the total reservoir storage in the Colorado River Basin was 38.66 maf (64.8% of capacity). As of April 9, 2012 the total reservoir storage in the Colorado River Basin was 37.47 maf (62.8% of capacity).

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

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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		mar	Forecast		Outlook		
:	dec	jan	feb	mar	%Avg	apr	may	jun	apr-jul	%Avg
GLDA3:Lake Powell	363	356	343	560	84%:	800/	1050/	1150/	3500/:	49%
GBRW4:Fontenelle	35	32	30	64	122%:	90/	135/	280/	665/:	92%
GRNU1:Flaming Gorge	38	45	47	104	102%:	135/	195/	315/	810/:	83%
BMDC2:Blue Mesa	24	22	21	40	111%:	77/	102/	106/	330/:	49%
MPSC2:Morrow Point	25	23	22	43	107%:	88/	112/	112/	360/:	49%
CLSC2:Crystal	28	27	26	49	106%:	99/	125/	125/	400/:	48%
TPIC2:Taylor Park	4.1	3.8	3.9	5.8	131%:	10/	18/	17/	52/:	53%
VCRC2:Vallecito	5.3	4.7	4.3	12.3	143%:	24/	47/	43/	130/:	67%
NVRN5:Navajo	19.1	17.7	18.6	74	80%:	135/	165/	115/	445/:	61%
LEMC2:Lemon	1.00	0.78	0.71	2.6	163%:	7/	17/	13/	40/:	73%
MPHC2:McPhee	2.8	3.0	3.5	22	118%:	60/	55/	29/	150/:	51%
RBSC2:Ridgway	4.1	4.0	3.5	5.8	101%:	11/	20/	24/	68/:	67%

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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)
*	Apr 2011	92	1	84	15	100	6471.99	128
H	May 2011	161	1	89	79	168	6470.20	120
I	Jun 2011	429	1	87	283	370	6481.96	178
S	Jul 2011	539	2	110	313	424	6498.87	290
T	Aug 2011	118	2	88	1	89	6502.38	317
O	Sep 2011	49	2	66	0	66	6499.90	298
<b>WY 2011</b>		<b>1581</b>	<b>14</b>	<b>801</b>	<b>747</b>	<b>1549</b>		
R	Oct 2011	50	1	56	18	74	6496.55	273
I	Nov 2011	46	1	22	49	71	6492.84	247
C	Dec 2011	35	1	74	0	74	6486.86	207
A	Jan 2012	32	1	74	0	74	6479.61	165
L	Feb 2012	30	0	69	0	69	6471.56	126
*	Mar 2012	64	0	67	0	67	6470.82	123
	Apr 2012	90	1	60	0	60	6477.23	152
	May 2012	135	1	101	2	103	6482.92	183
	Jun 2012	280	2	103	59	162	6500.03	299
	Jul 2012	160	3	102	34	136	6502.78	320
	Aug 2012	160	2	99	36	135	6505.62	343
	Sep 2012	44	2	71	0	71	6501.96	314
<b>WY 2012</b>		<b>1127</b>	<b>15</b>	<b>897</b>	<b>199</b>	<b>1096</b>		
	Oct 2012	49	1	74	0	74	6498.50	288
	Nov 2012	42	1	71	0	71	6494.36	258
	Dec 2012	32	1	74	0	74	6488.06	216
	Jan 2013	30	1	74	0	74	6480.86	172
	Feb 2013	28	1	66	0	66	6473.00	132
	Mar 2013	53	0	74	0	74	6468.02	111
	Apr 2013	85	1	83	0	83	6468.49	113
	May 2013	164	1	98	6	104	6480.83	171
	Jun 2013	299	2	102	67	170	6500.00	299
	Jul 2013	178	3	101	29	129	6505.86	345
	Aug 2013	77	2	88	0	88	6504.18	331
	Sep 2013	46	2	70	0	70	6500.88	306
<b>WY 2013</b>		<b>1082</b>	<b>15</b>	<b>973</b>	<b>102</b>	<b>1075</b>		
	Oct 2013	49	1	72	0	72	6497.60	281
	Nov 2013	42	1	70	0	70	6493.65	253
	Dec 2013	32	1	72	0	72	6487.56	212
	Jan 2014	30	1	72	0	72	6480.56	170
	Feb 2014	28	1	65	0	65	6472.97	132
	Mar 2014	53	0	72	0	72	6468.38	112

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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)
*	Apr 2011	159	166	5	172	0	172	127	6024.71	3150	480
H	May 2011	327	334	8	279	47	326	127	6024.73	3150	1110
I	Jun 2011	667	608	10	254	173	427	133	6029.11	3315	1570
S	Jul 2011	771	656	14	263	94	357	144	6036.07	3590	905
T	Aug 2011	144	115	13	148	0	148	142	6034.95	3544	246
O	Sep 2011	58	76	11	144	0	144	139	6033.03	3467	200
<b>WY 2011</b>		<b>2414</b>	<b>2381</b>	<b>80</b>	<b>1661</b>	<b>314</b>	<b>1975</b>				<b>5234</b>
R	Oct 2011	74	97	7	120	0	121	138	6032.27	3437	187
I	Nov 2011	64	89	4	88	0	88	138	6032.21	3435	144
C	Dec 2011	38	77	2	108	0	108	137	6031.41	3404	146
A	Jan 2012	45	87	2	148	0	148	134	6029.85	3343	187
L	Feb 2012	47	86	2	140	0	140	132	6028.43	3289	186
*	Mar 2012	104	107	3	162	0	162	130	6026.95	3233	284
	Apr 2012	135	105	5	116	0	116	129	6026.53	3217	116
	May 2012	195	163	8	144	0	144	130	6026.81	3228	144
	Jun 2012	315	197	10	157	0	157	131	6027.58	3257	157
	Jul 2012	165	141	13	92	0	92	132	6028.49	3291	92
	Aug 2012	76	51	13	92	0	92	130	6027.13	3239	92
	Sep 2012	51	78	11	89	0	89	129	6026.56	3218	89
<b>WY 2012</b>		<b>1309</b>	<b>1278</b>	<b>81</b>	<b>1456</b>	<b>1</b>	<b>1457</b>				<b>1825</b>
	Oct 2012	59	84	7	92	0	92	129	6026.16	3203	92
	Nov 2012	51	80	3	89	0	89	128	6025.84	3191	89
	Dec 2012	35	76	2	92	0	92	128	6025.39	3175	92
	Jan 2013	40	84	2	92	0	92	127	6025.12	3165	92
	Feb 2013	45	83	2	83	0	83	127	6025.07	3163	83
	Mar 2013	102	123	3	92	0	92	128	6025.80	3190	92
	Apr 2013	134	131	5	89	0	89	130	6026.75	3225	89
	May 2013	245	185	8	129	0	129	132	6027.99	3272	129
	Jun 2013	390	260	10	230	0	230	132	6028.49	3291	230
	Jul 2013	210	162	14	105	0	105	134	6029.58	3333	105
	Aug 2013	89	100	13	105	0	105	133	6029.14	3316	105
	Sep 2013	55	79	11	101	0	101	132	6028.30	3284	101
<b>WY 2013</b>		<b>1455</b>	<b>1448</b>	<b>80</b>	<b>1300</b>	<b>0</b>	<b>1300</b>				<b>1300</b>
	Oct 2013	59	82	7	105	0	105	131	6027.55	3256	105
	Nov 2013	51	79	3	101	0	101	130	6026.89	3231	101
	Dec 2013	35	75	2	105	0	105	129	6026.08	3200	105
	Jan 2014	40	82	2	105	0	105	128	6025.46	3177	105
	Feb 2014	45	82	2	94	0	94	127	6025.08	3163	94
	Mar 2014	102	122	3	105	0	105	128	6025.44	3177	105

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	7	8	9311.44	72
H	May 2011	22	33	9304.21	61
I	Jun 2011	65	28	9326.09	98
S	Jul 2011	37	39	9325.07	96
T	Aug 2011	12	24	9318.44	84
O	Sep 2011	7	20	9310.68	71
	<b>WY 2011</b>	<b>179</b>	<b>181</b>		
R	Oct 2011	7	9	9309.52	69
I	Nov 2011	5	6	9309.15	69
C	Dec 2011	4	6	9307.93	67
A	Jan 2012	4	5	9307.37	66
L	Feb 2012	4	4	9307.22	66
*	Mar 2012	6	4	9308.28	67
	Apr 2012	10	5	9311.74	73
	May 2012	18	9	9317.06	82
	Jun 2012	17	13	9319.31	86
	Jul 2012	7	16	9314.15	77
	Aug 2012	6	18	9306.53	65
	Sep 2012	6	12	9302.26	58
	<b>WY 2012</b>	<b>94</b>	<b>107</b>		
	Oct 2012	7	6	9302.73	59
	Nov 2012	5	5	9303.16	60
	Dec 2012	5	5	9303.28	60
	Jan 2013	4	5	9303.18	60
	Feb 2013	4	5	9302.69	59
	Mar 2013	4	5	9302.64	59
	Apr 2013	9	8	9303.52	60
	May 2013	28	12	9313.96	76
	Jun 2013	42	18	9326.94	100
	Jul 2013	20	20	9327.01	100
	Aug 2013	10	20	9321.95	91
	Sep 2013	7	16	9317.18	82
	<b>WY 2013</b>	<b>146</b>	<b>122</b>		
	Oct 2013	7	12	9314.07	77
	Nov 2013	5	6	9313.54	76
	Dec 2013	5	6	9312.75	74
	Jan 2014	4	6	9311.74	73
	Feb 2014	4	6	9310.38	70
	Mar 2014	4	6	9309.39	69

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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)
*	Apr 2011	77	78	1	95	0	95	7475.97	477
H	May 2011	168	179	1	162	0	162	7478.26	493
I	Jun 2011	425	389	1	127	19	146	7508.73	735
S	Jul 2011	222	222	2	150	0	150	7516.80	806
T	Aug 2011	67	79	1	123	0	123	7511.67	760
O	Sep 2011	35	48	1	108	0	108	7504.54	699
<b>WY 2011</b>		<b>1162</b>	<b>1163</b>	<b>8</b>	<b>1046</b>	<b>19</b>	<b>1065</b>		
R	Oct 2011	36	38	1	93	0	93	7497.84	644
I	Nov 2011	29	29	0	37	0	37	7496.82	635
C	Dec 2011	24	26	0	87	0	87	7489.07	574
A	Jan 2012	22	23	0	52	0	52	7485.29	545
L	Feb 2012	21	22	0	34	0	34	7483.66	533
*	Mar 2012	40	39	0	32	0	32	7484.49	539
	Apr 2012	77	72	1	30	0	30	7489.83	580
	May 2012	102	93	1	66	0	66	7493.14	606
	Jun 2012	106	102	1	62	0	62	7497.95	645
	Jul 2012	45	54	1	99	0	99	7492.15	598
	Aug 2012	37	50	1	99	0	99	7485.63	548
	Sep 2012	30	36	1	79	0	79	7479.78	504
<b>WY 2012</b>		<b>570</b>	<b>584</b>	<b>8</b>	<b>770</b>	<b>0</b>	<b>770</b>		
	Oct 2012	38	38	0	49	0	49	7478.14	493
	Nov 2012	31	31	0	17	0	17	7479.98	506
	Dec 2012	26	25	0	18	0	18	7480.97	513
	Jan 2013	24	24	0	24	0	24	7481.01	513
	Feb 2013	22	23	0	22	0	22	7481.20	515
	Mar 2013	36	36	0	26	0	26	7482.58	525
	Apr 2013	77	76	1	36	0	36	7487.76	564
	May 2013	221	205	1	130	0	130	7497.11	638
	Jun 2013	261	237	1	72	0	72	7516.31	802
	Jul 2013	117	117	2	114	0	114	7516.40	803
	Aug 2013	63	73	1	122	0	122	7510.77	753
	Sep 2013	38	47	1	115	0	115	7502.70	684
<b>WY 2013</b>		<b>955</b>	<b>932</b>	<b>9</b>	<b>744</b>	<b>0</b>	<b>744</b>		
	Oct 2013	38	44	1	70	0	70	7499.44	657
	Nov 2013	31	32	0	40	0	40	7498.43	648
	Dec 2013	26	27	0	94	0	94	7490.00	581
	Jan 2014	24	26	0	67	0	67	7484.61	540
	Feb 2014	22	25	0	55	0	55	7480.48	510
	Mar 2014	36	38	0	44	0	44	7479.55	503

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
* Apr 2011	84	95	7	102	104	0	104	7152.20	111
H May 2011	191	162	23	185	181	0	181	7156.18	114
I Jun 2011	455	146	30	176	170	0	176	7155.72	114
S Jul 2011	231	150	9	159	159	0	159	7155.22	113
T Aug 2011	68	123	1	125	124	0	124	7155.77	114
O Sep 2011	36	108	1	109	115	0	115	7148.00	108
<b>WY 2011</b>	<b>1236</b>	<b>1065</b>	<b>74</b>	<b>1139</b>	<b>1133</b>	<b>0</b>	<b>1139</b>		
R Oct 2011	37	93	1	94	91	0	91	7151.08	110
I Nov 2011	30	37	2	39	38	0	38	7151.73	110
C Dec 2011	25	87	0	88	85	0	85	7154.97	113
A Jan 2012	23	52	1	53	52	0	52	7155.61	113
L Feb 2012	22	34	1	35	35	0	35	7155.27	113
* Mar 2012	43	32	2	35	34	0	34	7156.25	114
Apr 2012	88	30	11	41	43	0	43	7153.73	112
May 2012	112	66	10	76	76	0	76	7153.73	112
Jun 2012	112	62	6	68	68	0	68	7153.73	112
Jul 2012	48	99	3	102	102	0	102	7153.73	112
Aug 2012	40	99	2	101	101	0	101	7153.73	112
Sep 2012	32	79	2	81	81	0	81	7153.73	112
<b>WY 2012</b>	<b>612</b>	<b>770</b>	<b>41</b>	<b>812</b>	<b>807</b>	<b>0</b>	<b>807</b>		
Oct 2012	41	49	3	52	52	0	52	7153.73	112
Nov 2012	33	17	2	19	19	0	19	7153.73	112
Dec 2012	28	18	2	20	20	0	20	7153.73	112
Jan 2013	27	24	2	26	26	0	26	7153.73	112
Feb 2013	25	22	3	24	24	0	24	7153.73	112
Mar 2013	40	26	4	30	30	0	30	7153.73	112
Apr 2013	88	36	11	47	47	0	47	7153.73	112
May 2013	247	130	26	156	156	0	156	7153.73	112
Jun 2013	281	72	20	92	92	0	92	7153.73	112
Jul 2013	123	114	6	121	121	0	121	7153.73	112
Aug 2013	67	122	3	125	125	0	125	7153.73	112
Sep 2013	41	115	3	117	117	0	117	7153.73	112
<b>WY 2013</b>	<b>1040</b>	<b>744</b>	<b>85</b>	<b>829</b>	<b>829</b>	<b>0</b>	<b>829</b>		
Oct 2013	41	70	3	73	73	0	73	7153.73	112
Nov 2013	33	40	2	42	42	0	42	7153.73	112
Dec 2013	28	94	2	96	96	0	96	7153.73	112
Jan 2014	27	67	2	69	69	0	69	7153.73	112
Feb 2014	25	55	3	58	58	0	58	7153.73	112
Mar 2014	40	44	4	48	48	0	48	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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)
*	Apr 2011	92	104	8	112	110	2	112	6752.03	17	38	79
H	May 2011	204	181	13	195	126	68	194	6753.39	17	63	137
I	Jun 2011	516	176	61	237	120	81	237	6752.90	17	62	183
S	Jul 2011	255	159	23	182	128	58	186	6739.47	13	62	136
T	Aug 2011	75	124	7	131	126	2	129	6748.39	16	66	70
O	Sep 2011	39	115	4	119	120	0	120	6744.21	14	64	62
<b>WY 2011</b>		<b>1375</b>	<b>1139</b>	<b>139</b>	<b>1278</b>	<b>1008</b>	<b>235</b>	<b>1279</b>			<b>413</b>	<b>912</b>
R	Oct 2011	41	91	4	96	94	0	94	6749.65	16	53	44
I	Nov 2011	34	38	4	42	41	1	41	6751.53	17	1	41
C	Dec 2011	28	85	3	88	89	0	89	6750.95	16	1	90
A	Jan 2012	27	52	3	56	53	3	56	6751.28	16	1	57
L	Feb 2012	26	35	3	38	15	23	38	6751.90	17	1	
*	Mar 2012	49	34	6	40	40	0	40	6751.80	17	6	
	Apr 2012	99	43	11	54	54	0	54	6753.04	17	30	24
	May 2012	125	76	13	89	89	0	89	6753.04	17	55	34
	Jun 2012	125	68	13	81	81	0	81	6753.04	17	60	21
	Jul 2012	51	102	3	105	105	0	105	6753.04	17	65	40
	Aug 2012	44	101	4	105	105	0	105	6753.04	17	65	40
	Sep 2012	37	81	5	86	86	0	86	6753.04	17	55	31
<b>WY 2012</b>		<b>685</b>	<b>807</b>	<b>73</b>	<b>880</b>	<b>851</b>	<b>26</b>	<b>877</b>			<b>392</b>	<b>422</b>
	Oct 2012	47	52	6	58	58	0	58	6753.04	17	30	28
	Nov 2012	38	19	5	24	24	0	24	6753.04	17	0	24
	Dec 2012	32	20	5	25	25	0	25	6753.04	17	0	25
	Jan 2013	31	26	5	31	31	0	31	6753.04	17	0	31
	Feb 2013	29	24	4	28	28	0	28	6753.04	17	0	28
	Mar 2013	46	30	6	36	36	0	36	6753.04	17	5	31
	Apr 2013	101	47	12	60	60	0	60	6753.04	17	30	30
	May 2013	281	156	34	190	134	56	190	6753.04	17	55	135
	Jun 2013	315	92	34	126	126	0	126	6753.04	17	60	66
	Jul 2013	138	121	14	135	134	1	135	6753.04	17	65	70
	Aug 2013	75	125	8	134	134	0	134	6753.04	17	65	69
	Sep 2013	47	117	6	123	123	0	123	6753.04	17	55	68
<b>WY 2013</b>		<b>1180</b>	<b>829</b>	<b>140</b>	<b>969</b>	<b>912</b>	<b>57</b>	<b>969</b>			<b>365</b>	<b>604</b>
	Oct 2013	47	73	6	79	79	0	79	6753.04	17	30	49
	Nov 2013	38	42	5	47	47	0	47	6753.04	17	0	47
	Dec 2013	32	96	5	101	101	0	101	6753.04	17	0	101
	Jan 2014	31	69	5	74	74	0	74	6753.04	17	0	74
	Feb 2014	29	58	4	61	61	0	61	6753.04	17	0	61
	Mar 2014	46	48	6	54	54	0	54	6753.04	17	5	49

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	22	4	7653.10	95
H	May 2011	44	27	7659.70	111
I	Jun 2011	79	64	7664.94	125
S	Jul 2011	23	39	7658.78	109
T	Aug 2011	9	37	7647.29	81
O	Sep 2011	8	29	7637.58	59
<b>WY 2011</b>		<b>225</b>	<b>222</b>		
R	Oct 2011	15	9	7640.42	65
I	Nov 2011	9	2	7643.33	72
C	Dec 2011	5	2	7644.76	75
A	Jan 2012	5	3	7645.42	76
L	Feb 2012	4	4	7645.50	76
*	Mar 2012	12	4	7648.84	84
	Apr 2012	24	3	7657.22	105
	May 2012	47	31	7663.00	120
	Jun 2012	43	43	7662.89	120
	Jul 2012	16	42	7652.72	94
	Aug 2012	14	38	7642.29	69
	Sep 2012	15	30	7635.05	54
<b>WY 2012</b>		<b>209</b>	<b>210</b>		
	Oct 2012	16	17	7634.15	52
	Nov 2012	9	1	7637.77	60
	Dec 2012	6	2	7640.04	64
	Jan 2013	5	2	7641.79	68
	Feb 2013	5	1	7643.28	71
	Mar 2013	9	2	7646.20	78
	Apr 2013	23	3	7654.52	98
	May 2013	71	44	7664.85	125
	Jun 2013	70	70	7664.80	125
	Jul 2013	29	42	7659.87	112
	Aug 2013	20	38	7652.59	93
	Sep 2013	17	30	7647.38	81
<b>WY 2013</b>		<b>281</b>	<b>251</b>		
	Oct 2013	16	19	7645.91	77
	Nov 2013	9	8	7646.27	78
	Dec 2013	6	3	7647.55	81
	Jan 2014	5	5	7647.70	82
	Feb 2014	5	4	7647.83	82
	Mar 2014	9	3	7650.07	87

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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)
*	Apr 2011	115	14	84	2	19	31	6060.75	1357	44
H	May 2011	172	22	134	4	28	32	6066.13	1428	79
I	Jun 2011	252	43	193	4	42	113	6068.65	1462	295
S	Jul 2011	40	8	46	5	48	31	6065.88	1424	98
T	Aug 2011	3	2	29	4	47	46	6060.64	1356	47
O	Sep 2011	15	2	35	3	20	40	6058.35	1327	
	<b>WY 2011</b>	<b>737</b>	<b>93</b>	<b>641</b>	<b>28</b>	<b>220</b>	<b>478</b>			<b>838</b>
R	Oct 2011	54	4	44	2	10	33	6058.32	1327	55
I	Nov 2011	31	1	23	1	0	21	6058.38	1327	47
C	Dec 2011	19	0	16	1	1	31	6057.10	1311	56
A	Jan 2012	18	0	16	1	1	30	6055.85	1296	48
L	Feb 2012	19	0	18	1	1	28	6054.95	1285	
*	Mar 2012	74	7	61	2	6	31	6056.81	1308	
	Apr 2012	135	15	99	2	17	30	6060.81	1358	30
	May 2012	165	35	114	4	32	48	6063.17	1389	48
	Jun 2012	115	26	89	4	47	92	6058.89	1334	92
	Jul 2012	30	4	51	4	53	38	6055.38	1290	38
	Aug 2012	29	1	52	3	46	56	6050.99	1237	56
	Sep 2012	35	0	50	3	26	40	6049.37	1218	40
	<b>WY 2012</b>	<b>723</b>	<b>93</b>	<b>634</b>	<b>27</b>	<b>239</b>	<b>478</b>			<b>511</b>
	Oct 2012	47	1	48	2	7	31	6050.09	1227	31
	Nov 2012	34	0	26	1	0	30	6049.69	1222	30
	Dec 2012	25	0	20	1	0	31	6048.74	1211	31
	Jan 2013	22	0	18	1	4	31	6047.25	1194	31
	Feb 2013	30	0	27	1	0	28	6047.11	1192	28
	Mar 2013	92	3	83	1	2	31	6051.29	1241	31
	Apr 2013	170	15	135	2	17	30	6058.38	1327	30
	May 2013	277	37	212	4	32	59	6067.44	1445	59
	Jun 2013	224	31	192	4	47	120	6068.88	1465	120
	Jul 2013	66	6	73	5	53	35	6067.40	1445	35
	Aug 2013	45	2	61	4	46	43	6065.06	1414	43
	Sep 2013	43	0	55	3	26	35	6064.36	1404	35
	<b>WY 2013</b>	<b>1075</b>	<b>95</b>	<b>950</b>	<b>28</b>	<b>234</b>	<b>503</b>			<b>503</b>
	Oct 2013	47	1	49	2	6	33	6064.95	1412	33
	Nov 2013	34	1	32	1	0	30	6065.03	1413	30
	Dec 2013	25	0	22	1	0	31	6064.32	1404	31
	Jan 2014	22	0	21	1	0	31	6063.56	1394	31
	Feb 2014	30	0	30	1	0	28	6063.65	1395	28
	Mar 2014	92	3	84	2	2	31	6067.40	1445	31

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	1136	1096	25	940	0	940	3611.93	5088	12926	963
H	May 2011	2440	2467	30	1171	0	1171	3623.13	5182	14098	1191
I	Jun 2011	5203	4661	54	1377	0	1377	3648.98	5421	17089	1391
S	Jul 2011	3767	3195	74	1483	0	1483	3660.86	5542	18605	1502
T	Aug 2011	664	780	74	1479	0	1479	3655.34	5485	17890	1501
O	Sep 2011	456	669	67	922	0	922	3653.01	5461	17593	957
	<b>WY 2011</b>	<b>15971</b>	<b>15498</b>	<b>467</b>	<b>12518</b>	<b>0</b>	<b>12518</b>				<b>12731</b>
R	Oct 2011	513	630	45	956	0	956	3650.27	5434	17249	979
I	Nov 2011	506	530	43	1099	0	1099	3645.67	5388	16683	1104
C	Dec 2011	363	490	33	1223	0	1223	3639.75	5332	15974	1226
A	Jan 2012	356	503	10	852	0	852	3636.91	5305	15641	846
L	Feb 2012	342	460	11	653	0	653	3635.28	5290	15453	654
*	Mar 2012	560	625	19	600	0	600	3635.33	5290	15458	607
	Apr 2012	800	662	29	600	0	600	3635.59	5293	15488	600
	May 2012	1050	913	35	600	0	600	3637.81	5313	15746	600
	Jun 2012	1150	998	55	714	0	714	3639.62	5330	15958	714
	Jul 2012	500	546	65	890	0	890	3636.38	5300	15580	890
	Aug 2012	319	471	64	800	0	800	3633.21	5271	15216	800
	Sep 2012	335	453	58	476	0	476	3632.55	5265	15140	476
	<b>WY 2012</b>	<b>6794</b>	<b>7281</b>	<b>467</b>	<b>9463</b>	<b>0</b>	<b>9463</b>				<b>9497</b>
	Oct 2012	512	548	40	491	0	491	3632.68	5266	15156	491
	Nov 2012	473	493	39	600	0	600	3631.50	5255	15021	600
	Dec 2012	363	418	30	800	0	800	3628.08	5225	14639	800
	Jan 2013	361	426	9	800	0	800	3624.85	5196	14284	800
	Feb 2013	393	428	10	600	0	600	3623.30	5183	14116	600
	Mar 2013	665	588	17	600	0	600	3623.05	5181	14089	600
	Apr 2013	1056	861	27	600	0	600	3625.04	5198	14305	600
	May 2013	2343	1986	34	600	0	600	3636.19	5298	15558	600
	Jun 2013	2666	2293	56	825	0	825	3647.16	5403	16865	825
	Jul 2013	1091	1011	69	890	0	890	3647.55	5407	16913	890
	Aug 2013	500	620	69	824	0	824	3645.48	5386	16660	824
	Sep 2013	408	549	63	600	0	600	3644.62	5378	16555	600
	<b>WY 2013</b>	<b>10831</b>	<b>10221</b>	<b>463</b>	<b>8230</b>	<b>0</b>	<b>8230</b>				<b>8230</b>
	Oct 2013	512	583	43	600	0	600	3644.15	5374	16499	600
	Nov 2013	473	529	42	600	0	600	3643.29	5365	16394	600
	Dec 2013	363	506	33	800	0	800	3640.75	5341	16092	800
	Jan 2014	361	477	10	800	0	800	3638.13	5316	15783	800
	Feb 2014	393	473	11	600	0	600	3637.03	5306	15655	600
	Mar 2014	665	618	19	600	0	600	3637.03	5306	15655	600

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



# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	940	140	40	1078	18.1	20	1066	722	1095.76	11115
H	May 2011	1171	104	47	1001	16.3	25	997	735	1097.90	11304
I	Jun 2011	1377	72	57	939	15.8	25	938	761	1102.38	11705
S	Jul 2011	1483	74	73	1001	16.3	26	1000	789	1107.07	12133
T	Aug 2011	1479	96	80	831	13.5	28	829	827	1113.45	12730
O	Sep 2011	922	96	67	670	11.3	18	668	844	1116.04	12977
<b>WY 2011</b>		<b>12518</b>	<b>1157</b>	<b>578</b>	<b>9799</b>		<b>225</b>	<b>9676</b>			
R	Oct 2011	956	66	49	443	7.2	20	436	875	1121.00	13456
I	Nov 2011	1099	36	50	564	9.5	13	561	906	1125.82	13933
C	Dec 2011	1223	84	45	497	8.1	9	482	952	1132.83	14644
A	Jan 2012	852	55	37	713	11.6	9	712	976	1134.18	15022
L	Feb 2012	653	45	34	775	13.5	11	775	969	1133.06	14907
*	Mar 2012	600	43	38	986	16.0	16	985	945	1129.41	14535
	Apr 2012	600	76	46	1150	19.3	17	1150	912	1124.37	14030
	May 2012	600	64	52	1037	16.9	28	1037	884	1120.03	13604
	Jun 2012	714	33	62	952	16.0	25	952	866	1117.20	13330
	Jul 2012	890	54	77	869	14.1	29	869	865	1116.89	13301
	Aug 2012	800	103	82	801	13.0	30	801	864	1116.80	13292
	Sep 2012	476	74	67	718	12.1	20	718	848	1114.30	13052
<b>WY 2012</b>		<b>9463</b>	<b>733</b>	<b>639</b>	<b>9506</b>		<b>226</b>	<b>9479</b>			
	Oct 2012	491	49	49	421	6.9	22	421	851	1114.77	13098
	Nov 2012	600	46	49	534	9.0	20	534	854	1115.19	13138
	Dec 2012	800	108	42	494	8.0	17	494	876	1118.66	13471
	Jan 2013	800	78	35	694	11.3	16	694	884	1119.94	13596
	Feb 2013	600	98	32	703	12.7	15	703	881	1119.44	13547
	Mar 2013	600	78	36	1047	17.0	21	1047	855	1115.29	13147
	Apr 2013	600	76	43	1128	19.0	17	1128	823	1110.19	12665
	May 2013	600	64	49	1010	16.4	27	1010	797	1105.90	12268
	Jun 2013	825	33	58	945	15.9	23	945	787	1104.17	12110
	Jul 2013	890	54	73	935	15.2	25	935	782	1103.25	12027
	Aug 2013	824	103	77	843	13.7	27	843	780	1103.03	12008
	Sep 2013	600	74	63	667	11.2	19	667	776	1102.25	11937
<b>WY 2013</b>		<b>8230</b>	<b>861</b>	<b>606</b>	<b>9423</b>		<b>250</b>	<b>9423</b>			
	Oct 2013	600	49	46	456	7.4	23	456	783	1103.54	12054
	Nov 2013	600	46	46	546	9.2	22	546	785	1103.87	12084
	Dec 2013	800	108	40	481	7.8	17	481	808	1107.66	12430
	Jan 2014	800	78	33	694	11.3	20	694	816	1108.99	12553
	Feb 2014	600	98	31	703	12.7	18	703	813	1108.44	12502
	Mar 2014	600	78	34	1047	17.0	24	1047	787	1104.06	12101

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	1078	-13	17	1047	0	1047	17.6	643.30	1707
H	May 2011	1001	-10	22	949	0	949	15.4	644.04	1727
I	Jun 2011	939	-9	25	954	0	954	16.0	642.27	1679
S	Jul 2011	1001	-10	25	943	0	943	15.3	643.11	1702
T	Aug 2011	831	-6	23	822	0	822	13.4	642.38	1682
O	Sep 2011	670	-6	18	717	0	717	12.1	639.73	1610
<b>WY 2011</b>		<b>9799</b>	<b>-120</b>	<b>198</b>	<b>9446</b>	<b>0</b>	<b>9446</b>			
R	Oct 2011	443	7	15	611	0	611	9.9	633.03	1435
I	Nov 2011	564	-11	10	466	0	466	7.8	635.99	1511
C	Dec 2011	497	-28	9	385	0	385	6.3	638.82	1586
A	Jan 2012	713	-23	10	638	0	638	10.4	640.38	1628
L	Feb 2012	775	-18	10	726	0	726	12.6	641.20	1650
*	Mar 2012	986	-23	13	931	0	931	15.1	641.93	1670
	Apr 2012	1150	-14	17	1091	0	1091	18.3	643.00	1699
	May 2012	1037	-14	22	1001	0	1001	16.3	643.00	1699
	Jun 2012	952	-10	25	943	0	943	15.9	642.00	1671
	Jul 2012	869	-4	25	853	0	853	13.9	641.50	1658
	Aug 2012	801	-7	23	771	0	771	12.5	641.50	1658
	Sep 2012	718	0	18	793	0	793	13.3	638.00	1564
<b>WY 2012</b>		<b>9506</b>	<b>-147</b>	<b>196</b>	<b>9209</b>	<b>0</b>	<b>9209</b>			
	Oct 2012	421	0	14	600	0	600	9.8	630.49	1371
	Nov 2012	534	-15	10	394	0	394	6.6	635.00	1486
	Dec 2012	494	-19	9	368	0	368	6.0	638.71	1583
	Jan 2013	694	-13	10	588	0	588	9.6	641.80	1666
	Feb 2013	703	-6	10	687	0	687	12.4	641.80	1666
	Mar 2013	1047	-14	13	985	0	985	16.0	643.05	1700
	Apr 2013	1128	-14	17	1100	0	1100	18.5	643.00	1699
	May 2013	1010	-14	22	974	0	974	15.8	643.00	1699
	Jun 2013	945	-10	25	937	0	937	15.7	642.00	1671
	Jul 2013	935	-4	25	919	0	919	14.9	641.50	1658
	Aug 2013	843	-7	23	813	0	813	13.2	641.50	1658
	Sep 2013	667	0	18	742	0	742	12.5	638.00	1564
<b>WY 2013</b>		<b>9423</b>	<b>-118</b>	<b>196</b>	<b>9109</b>	<b>0</b>	<b>9109</b>			
	Oct 2013	456	0	15	572	0	572	9.3	633.00	1434
	Nov 2013	546	-15	10	469	0	469	7.9	635.00	1486
	Dec 2013	481	-19	9	355	0	355	5.8	638.71	1583
	Jan 2014	694	-13	10	588	0	588	9.6	641.80	1666
	Feb 2014	703	-6	10	687	0	687	12.4	641.80	1666
	Mar 2014	1047	-14	13	985	0	985	16.0	643.05	1700

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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)
*	Apr 2011	1047	18	11	786	13.2	71	180	448.54	590	204	3.4
H	May 2011	949	17	13	691	11.2	83	166	448.68	593	115	1.9
I	Jun 2011	954	14	15	708	11.9	96	155	447.73	575	120	2.0
S	Jul 2011	943	34	17	762	12.4	100	77	448.22	584	127	2.1
T	Aug 2011	822	25	17	669	10.9	91	60	448.13	583	97	1.6
O	Sep 2011	717	30	15	538	9.0	83	102	448.28	585	91	1.5
<b>WY 2011</b>		<b>9446</b>	<b>263</b>	<b>140</b>	<b>6837</b>		<b>963</b>	<b>1657</b>			<b>1634</b>	
R	Oct 2011	611	31	12	472	7.7	8	149	447.97	579	62	1.0
I	Nov 2011	466	37	9	321	5.4	7	175	447.32	567	93	1.6
C	Dec 2011	385	27	6	267	4.3	15	151	445.69	537	108	1.7
A	Jan 2012	638	12	6	382	6.2	54	187	446.61	554	131	2.1
L	Feb 2012	726	12	8	497	8.6	49	169	447.10	563	159	2.8
*	Mar 2012	931	6	9	711	11.6	18	187	447.23	565	187	3.0
	Apr 2012	1091	19	11	800	13.4	98	178	448.00	580	205	3.5
	May 2012	1001	18	13	696	11.3	105	183	448.50	590	112	1.8
	Jun 2012	943	15	15	688	11.6	98	143	448.50	590	114	1.9
	Jul 2012	853	21	17	728	11.8	101	23	448.00	580	115	1.9
	Aug 2012	771	22	17	647	10.5	84	42	447.50	571	105	1.7
	Sep 2012	793	20	15	567	9.5	81	154	446.81	557	102	1.7
<b>WY 2012</b>		<b>9209</b>	<b>240</b>	<b>139</b>	<b>6774</b>		<b>719</b>	<b>1741</b>			<b>1493</b>	
	Oct 2012	600	23	12	454	7.4	8	152	446.31	548	64	1.0
	Nov 2012	394	32	8	382	6.4	4	22	446.50	552	102	1.7
	Dec 2012	368	26	6	278	4.5	4	102	446.50	552	106	1.7
	Jan 2013	588	15	6	358	5.8	94	141	446.50	552	122	2.0
	Feb 2013	687	7	8	462	8.3	84	135	446.50	552	153	2.8
	Mar 2013	985	18	9	711	11.6	94	178	446.70	555	208	3.4
	Apr 2013	1100	19	11	798	13.4	90	172	448.70	593	200	3.4
	May 2013	974	18	13	695	11.3	94	178	448.70	593	111	1.8
	Jun 2013	937	15	16	677	11.4	90	155	448.70	593	112	1.9
	Jul 2013	919	21	17	731	11.9	94	98	448.00	580	118	1.9
	Aug 2013	813	22	17	624	10.2	94	97	447.50	571	92	1.5
	Sep 2013	742	20	15	527	8.9	77	147	446.81	557	89	1.5
<b>WY 2013</b>		<b>9109</b>	<b>237</b>	<b>139</b>	<b>6698</b>		<b>826</b>	<b>1579</b>			<b>1477</b>	
	Oct 2013	572	23	12	445	7.2	29	110	446.31	548	72	1.2
	Nov 2013	469	32	8	376	6.3	30	77	446.50	552	105	1.8
	Dec 2013	355	26	6	284	4.6	30	56	446.50	552	118	1.9
	Jan 2014	588	15	6	358	5.8	94	141	446.50	552	122	2.0
	Feb 2014	687	7	8	462	8.3	84	135	446.50	552	153	2.8
	Mar 2014	985	18	9	711	11.6	94	178	446.70	555	208	3.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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
*	Apr 2011	1078	18.1	1095.76	11115	-55	449.53	1157.0	430.9	70	399.6
H	May 2011	1001	16.3	1097.90	11304	189	452.71	1468.0	394.5	88	393.9
I	Jun 2011	939	15.8	1102.38	11705	401	457.87	1661.0	372.1	100	396.2
S	Jul 2011	1001	16.3	1107.07	12133	429	462.21	1698.0	403.2	100	402.6
T	Aug 2011	831	13.5	1113.45	12730	597	469.04	1721.0	338.8	100	407.7
O	Sep 2011	670	11.3	1116.04	12977	247	473.88	1757.0	272.0	100	406.1
<b>WY 2011</b>		<b>9799</b>							<b>3848.4</b>		
R	Oct 2011	443	7.2	1121.00	13456	479	478.70	1311.0	178.9	74	403.5
I	Nov 2011	564	9.5	1125.82	13933	477	481.61	1110.0	233.8	61	414.3
C	Dec 2011	497	8.1	1132.83	14644	711	488.04	1374.0	207.2	75	417.3
A	Jan 2012	713	11.6	1134.18	15022	139	485.97	1146.0	308.0	61	432.1
L	Feb 2012	775	13.5	1133.06	14907	-115	484.32	1282.0	338.6	68	436.7
*	Mar 2012	986	16.0	1129.41	14535	-372	481.45	1047.0	427.4	56	433.4
	Apr 2012	1150	19.3	1124.37	14030	-505	477.66	1164.0	516.5	62	449.1
	May 2012	1037	16.9	1120.03	13604	-426	473.18	1028.0	456.4	57	440.0
	Jun 2012	952	16.0	1117.20	13330	-274	465.17	1794.0	398.6	100	418.9
	Jul 2012	869	14.1	1116.89	13301	-29	464.10	1792.0	365.1	100	420.2
	Aug 2012	801	13.0	1116.80	13292	-9	464.07	1792.0	333.4	100	416.1
	Sep 2012	718	12.1	1114.30	13052	-239	463.92	1778.0	295.9	100	411.9
<b>WY 2012</b>		<b>9506</b>							<b>4059.9</b>		
	Oct 2012	421	6.9	1114.77	13098	45	467.45	1390.0	170.1	78	403.7
	Nov 2012	534	9.0	1115.19	13138	40	470.37	1389.0	218.2	78	408.7
	Dec 2012	494	8.0	1118.66	13471	333	469.61	1405.0	204.7	78	414.7
	Jan 2013	694	11.3	1119.94	13596	124	469.74	1412.0	288.9	78	416.2
	Feb 2013	703	12.7	1119.44	13547	-49	469.08	1417.0	297.1	78	422.4
	Mar 2013	1047	17.0	1115.29	13147	-400	466.36	1397.0	442.4	78	422.6
	Apr 2013	1128	19.0	1110.19	12665	-482	461.18	1415.0	478.9	80	424.4
	May 2013	1010	16.4	1105.90	12268	-397	454.34	1767.0	408.2	100	404.1
	Jun 2013	945	15.9	1104.17	12110	-158	451.68	1773.0	385.2	100	407.6
	Jul 2013	935	15.2	1103.25	12027	-83	450.85	1785.0	378.5	100	404.6
	Aug 2013	843	13.7	1103.03	12008	-19	450.45	1794.0	343.9	100	407.8
	Sep 2013	667	11.2	1102.25	11937	-70	451.10	1794.0	265.6	100	398.0
<b>WY 2013</b>		<b>9423</b>							<b>3881.8</b>		
	Oct 2013	456	7.4	1103.54	12054	117	455.86	1400.9	182.8	78	400.8
	Nov 2013	546	9.2	1103.87	12084	30	458.33	1397.6	219.2	78	401.7
	Dec 2013	481	7.8	1107.66	12430	347	458.50	1398.8	195.0	78	405.5
	Jan 2014	694	11.3	1108.99	12553	123	458.82	1399.5	283.2	78	407.9
	Feb 2014	703	12.7	1108.44	12502	-51	458.15	1406.8	291.1	78	413.8
	Mar 2014	1047	17.0	1104.06	12101	-401	455.30	1405.6	432.9	78	413.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 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
*	Apr 2011	1047	17.6	643.30	1707	2	141.68	227.0	131.6	89	125.7
H	May 2011	949	15.4	644.04	1727	20	142.61	255.0	120.3	100	126.8
I	Jun 2011	954	16.0	642.27	1679	-48	140.41	249.9	120.6	98	126.4
S	Jul 2011	943	15.3	643.11	1702	23	143.18	255.0	119.3	100	126.5
T	Aug 2011	822	13.4	642.38	1682	-20	140.95	255.0	103.5	100	125.9
O	Sep 2011	717	12.1	639.73	1610	-72	137.99	255.0	90.2	100	125.8
<b>WY 2011</b>		<b>9446</b>							<b>1182.3</b>		
R	Oct 2011	611	9.9	633.03	1435	-175	133.41	181.1	74.4	71	121.8
I	Nov 2011	466	7.8	635.99	1511	76	134.28	170.9	57.0	67	122.2
C	Dec 2011	385	6.3	638.82	1586	74	135.59	173.4	48.1	68	124.9
A	Jan 2012	638	10.4	640.38	1628	42	138.75	170.9	77.2	67	121.0
L	Feb 2012	726	12.6	641.20	1650	22	140.80	163.2	90.8	64	125.1
*	Mar 2012	931	15.1	641.93	1670	20	140.23	204.0	117.4	80	126.2
	Apr 2012	1091	18.3	643.00	1699	29	135.62	249.9	135.0	98	123.8
	May 2012	1001	16.3	643.00	1699	0	136.04	255.0	125.0	100	124.9
	Jun 2012	943	15.9	642.00	1671	-27	135.51	255.0	117.5	100	124.6
	Jul 2012	853	13.9	641.50	1658	-14	134.73	255.0	106.2	100	124.5
	Aug 2012	771	12.5	641.50	1658	0	134.46	255.0	96.2	100	124.7
	Sep 2012	793	13.3	638.00	1564	-94	132.62	255.0	97.5	100	122.9
<b>WY 2012</b>		<b>9209</b>							<b>1142.2</b>		
	Oct 2012	600	9.8	630.49	1371	-193	127.85	219.3	71.6	86	119.2
	Nov 2012	394	6.6	635.00	1486	115	125.53	244.8	46.9	96	119.1
	Dec 2012	368	6.0	638.71	1583	97	130.29	229.5	45.3	90	123.1
	Jan 2013	588	9.6	641.80	1666	83	134.09	221.9	73.4	87	124.7
	Feb 2013	687	12.4	641.80	1666	0	136.08	209.1	86.0	82	125.1
	Mar 2013	985	16.0	643.05	1700	34	135.86	239.7	122.6	94	124.4
	Apr 2013	1100	18.5	643.00	1699	-2	136.07	255.0	136.6	100	124.3
	May 2013	974	15.8	643.00	1699	0	136.04	255.0	121.7	100	125.0
	Jun 2013	937	15.7	642.00	1671	-27	135.51	255.0	116.7	100	124.6
	Jul 2013	919	14.9	641.50	1658	-14	134.73	255.0	114.1	100	124.2
	Aug 2013	813	13.2	641.50	1658	0	134.46	255.0	101.3	100	124.5
	Sep 2013	742	12.5	638.00	1564	-94	132.62	255.0	91.4	100	123.2
<b>WY 2013</b>		<b>9109</b>							<b>1127.7</b>		
	Oct 2013	572	9.3	633.00	1434	-130	129.17	219.3	68.9	86	120.5
	Nov 2013	469	7.9	635.00	1486	51	126.85	244.8	56.2	96	119.7
	Dec 2013	355	5.8	638.71	1583	97	130.29	229.5	43.7	90	123.1
	Jan 2014	588	9.6	641.80	1666	83	134.09	221.9	73.4	87	124.7
	Feb 2014	687	12.4	641.80	1666	0	136.08	209.1	86.0	82	125.1
	Mar 2014	985	16.0	643.05	1700	34	135.86	239.7	122.6	94	124.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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
*	Apr 2011	786	13.2	448.54	590	9	82.13	120.0	54.4	100	69.1
H	May 2011	691	11.2	448.68	593	3	80.58	120.0	47.9	100	69.3
I	Jun 2011	708	11.9	447.73	575	-18	81.68	114.0	49.9	95	70.4
S	Jul 2011	762	12.4	448.22	584	9	81.72	116.4	51.6	97	67.7
T	Aug 2011	669	10.9	448.13	583	-2	82.04	120.0	46.1	100	68.9
O	Sep 2011	538	9.0	448.28	585	3	82.16	120.0	39.4	100	73.2
<b>WY 2011</b>		<b>6837</b>							<b>474.2</b>		
R	Oct 2011	472	7.7	447.97	579	-6	81.92	92.4	31.5	77	66.8
I	Nov 2011	321	5.4	447.32	567	-12	80.93	102.0	22.1	85	69.1
C	Dec 2011	267	4.3	445.69	537	-30	81.08	67.2	17.7	56	66.2
A	Jan 2012	382	6.2	446.61	554	17	80.68	67.2	25.6	56	67.1
L	Feb 2012	497	8.6	447.10	563	9	80.85	94.8	35.1	79	70.7
*	Mar 2012	711	11.6	447.23	565	2	81.75	97.2	48.8	81	68.6
	Apr 2012	800	13.4	448.00	580	15	75.00	120.0	52.7	100	66.0
	May 2012	696	11.3	448.50	590	10	75.61	120.0	46.0	100	66.1
	Jun 2012	688	11.6	448.50	590	0	75.86	120.0	45.7	100	66.4
	Jul 2012	728	11.8	448.00	580	-9	75.61	120.0	48.2	100	66.2
	Aug 2012	647	10.5	447.50	571	-10	75.13	120.0	42.4	100	65.6
	Sep 2012	567	9.5	446.81	557	-13	74.55	120.0	36.8	100	65.0
<b>WY 2012</b>		<b>6774</b>							<b>452.8</b>		
	Oct 2012	454	7.4	446.31	548	-9	74.77	102.0	29.3	85	64.6
	Nov 2012	382	6.4	446.50	552	3	74.62	102.0	24.5	85	64.1
	Dec 2012	278	4.5	446.50	552	0	74.71	102.0	17.4	85	62.8
	Jan 2013	358	5.8	446.50	552	0	74.71	102.0	22.8	85	63.8
	Feb 2013	462	8.3	446.50	552	0	73.92	120.0	29.7	100	64.2
	Mar 2013	711	11.6	446.70	555	4	74.01	120.0	46.2	100	64.9
	Apr 2013	798	13.4	448.70	593	38	75.08	120.0	52.7	100	66.0
	May 2013	695	11.3	448.70	593	0	76.05	120.0	46.2	100	66.5
	Jun 2013	677	11.4	448.70	593	0	76.05	120.0	45.0	100	66.5
	Jul 2013	731	11.9	448.00	580	-13	75.71	120.0	48.4	100	66.3
	Aug 2013	624	10.2	447.50	571	-10	75.13	120.0	40.9	100	65.5
	Sep 2013	527	8.9	446.81	557	-13	74.55	120.0	34.2	100	64.8
<b>WY 2013</b>		<b>6698</b>							<b>437.5</b>		
	Oct 2013	445	7.2	446.31	548	-9	74.77	102.0	28.7	85	64.6
	Nov 2013	376	6.3	446.50	552	3	74.62	102.0	24.1	85	64.1
	Dec 2013	284	4.6	446.50	552	0	74.71	102.0	17.9	85	62.9
	Jan 2014	358	5.8	446.50	552	0	74.71	102.0	22.8	85	63.8
	Feb 2014	462	8.3	446.50	552	0	73.92	120.0	29.7	100	64.2
	Mar 2014	711	11.6	446.70	555	4	74.01	120.0	46.2	100	64.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 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
* Apr 2011	415	65	26	37	21	5
H May 2011	520	105	44	66	23	5
I Jun 2011	634	98	36	61	23	5
S Jul 2011	708					
T Aug 2011	706	60	39	44	22	8
O Sep 2011	442	58	34	41	22	6
<b>Summer 2011</b>	<b>3425</b>	<b>386</b>	<b>179</b>	<b>248</b>	<b>111</b>	<b>30</b>
R Oct 2011	446	48	28	33	18	5
I Nov 2011	508	34	11	13	7	2
C Dec 2011	563	43	25	30	17	6
A Jan 2012	388	58	15	18	10	5
L Feb 2012	295	54	9	12	2	4
* 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>
Apr 2012	254	42	9	16	9	4
May 2012	255	53	20	27	15	8
Jun 2012	304	57	19	25	14	9
Jul 2012	379	34	30	37	18	10
Aug 2012	338	34	29	36	18	10
Sep 2012	201	33	23	29	15	7
<b>Summer 2012</b>	<b>1730</b>	<b>252</b>	<b>128</b>	<b>170</b>	<b>90</b>	<b>46</b>
Oct 2012	207	34	14	19	10	7
Nov 2012	252	33	5	7	4	6
Dec 2012	335	34	5	7	4	6
Jan 2013	333	34	7	9	5	6
Feb 2013	248	30	6	9	5	5
Mar 2013	248	34	7	11	6	5
<b>Winter 2013</b>	<b>1623</b>	<b>197</b>	<b>44</b>	<b>61</b>	<b>35</b>	<b>35</b>
Apr 2013	248	33	10	17	10	5
May 2013	252	47	39	56	23	7
Jun 2013	353	84	22	33	22	9
Jul 2013	385	38	36	43	23	10
Aug 2013	356	38	38	45	23	8
Sep 2013	259	37	35	42	21	7
<b>Summer 2013</b>	<b>1853</b>	<b>278</b>	<b>181</b>	<b>237</b>	<b>123</b>	<b>45</b>
Oct 2013	258	38	21	26	14	7
Nov 2013	258	37	12	15	8	6
Dec 2013	343	38	28	35	17	6
Jan 2014	341	38	20	25	13	6
Feb 2014	255	34	16	21	11	5
Mar 2014	255	38	13	17	9	5
<b>Winter 2014</b>	<b>1455</b>	<b>186</b>	<b>97</b>	<b>122</b>	<b>63</b>	<b>29</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2012 24-Month Study

Most Probable Inflow\*

Flood Control Criteria

Beginning of Month Conditions



Date	Flaming	Blue	Lake	Upper Basin	Lake	Total	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space	Mead	Mead	Sys				
	George	Mesa	Navajo	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	KAF	MAF			
<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>												
Apr 2012	739	290	388	8864	10281	12842	23123	301	73	146	520	8864	12842	22226	1500	1150	0	37.3		
May 2012	724	250	338	8834	10145	13347	23493	282	26	77	385	8834	13347	22566	1500	1037	0	37.3		
Jun 2012	683	224	307	8576	9790	13773	23563	231	-10	10	232	8576	13773	22581	1500	952	0	37.3		
Jul 2012	538	185	362	8364	9449	14047	23496	73	-54	14	32	8364	14047	22443	1500	869	0	36.8		
<b>**** CREDITABLE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>												
Aug 2012	483	231	406	8742	9862	14076	23939	483	231	406	1120	8742	14076	23939	1500	801	0	36.3		
Sep 2012	512	282	459	9106	10359	14085	24444	512	282	459	1252	9106	14085	24444	2270	718	0	35.8		
Oct 2012	562	325	478	9182	10547	14325	24871	562	325	478	1365	9182	14325	24871	3040	421	0	35.6		
Nov 2012	603	337	469	9166	10576	14279	24855	603	337	469	1409	9166	14279	24855	3810	534	0	35.6		
Dec 2012	645	324	474	9301	10743	14239	24982	645	324	474	1443	9301	14239	24982	4580	494	0	35.5		
Jan 2013	704	316	485	9683	11188	13906	25094	704	316	485	1505	9683	13906	25094	5350	694	0	35.3		
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>												
Jan 2013	704	316	485	9683	11188	13906	25094	345	316	407	1069	9683	13906	24657	5350	694	0	35.3		
Feb 2013	758	316	502	10038	11614	13781	25395	397	316	420	1133	10038	13781	24952	1500	703	0	35.1		
Mar 2013	799	315	504	10206	11824	13830	25654	436	315	421	1171	10206	13830	25208	1500	1047	0	34.8		
Apr 2013	793	305	455	10233	11787	14230	26017	426	305	368	1099	10233	14230	25562	1500	1128	0	34.7		
May 2013	756	265	369	10017	11407	14712	26119	382	265	263	910	10017	14712	25639	1500	1010	0	35.9		
Jun 2013	650	192	251	8764	9857	15109	24966	265	192	109	566	8764	15109	24439	1500	945	0	37.3		
Jul 2013	504	28	231	7457	8220	15267	23487	106	3	37	146	7457	15267	22869	1500	935	0	37.3		
<b>**** CREDITABLE SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>												
Aug 2013	416	27	251	7409	8104	15350	23454	416	27	251	695	7409	15350	23454	1500	843	0	36.9		
Sep 2013	447	77	282	7662	8468	15369	23838	447	77	282	806	7662	15369	23838	2270	667	0	36.5		
Oct 2013	505	146	292	7767	8709	15440	24149	505	146	292	942	7767	15440	24149	3040	456	0	36.3		
Nov 2013	557	173	284	7823	8837	15323	24160	557	173	284	1014	7823	15323	24160	3810	546	0	36.3		
Dec 2013	611	181	283	7928	9002	15293	24295	611	181	283	1074	7928	15293	24295	4580	481	0	36.3		
Jan 2014	681	248	292	8230	9452	14947	24398	681	248	292	1222	8230	14947	24398	5350	694	0	36.0		
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>												
Jan 2014	681	248	292	8230	9452	14947	24398	292	248	186	726	8230	14947	23903	5350	694	0	36.0		
Feb 2014	747	289	302	8539	9877	14824	24701	356	289	196	841	8539	14824	24204	1500	703	0	35.8		
Mar 2014	799	320	301	8667	10086	14875	24961	406	320	194	919	8667	14875	24461	1500	1047	0	35.5		

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