

**September 24-Month Study**  
**Date: September 9, 2011**

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

**Current Reservoir Status**

Reservoir	August Inflow (unregulated) (acre-feet)	Percent of Average (%)	September 7 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	118,000	129	6501.87	313,000
Flaming Gorge	144,000	133	6034.67	3,533,000
Blue Mesa	67,000	104	7509.67	743,000
Navajo	3,000	7	6059.53	1,342,000
Powell	859,000	140	3654.60	17,795,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this September 2011 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 2011 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the Lake Powell operational tier for water year 2011 is the Upper Elevation Balancing Tier. The Intentionally Created Surplus (ICS) Surplus condition is the criterion governing the operation of Lake Mead for calendar year 2011.

The April 2011 24-Month study projected the September 30 Lake Powell elevation to be greater than the 2011 Equalization elevation of 3,643.0 feet with an annual release from Lake Powell of 8.23 maf. Consistent with Section 6.B.3 of the Interim Guidelines, the Equalization Tier governs operations of Lake Powell for the remainder of the water year.

The September 24-Month Study projects a Lake Powell water year 2011 annual release volume of 12.52 maf. Due to above average inflows into Lake Powell in 2011, Equalization will not be fully achieved by the end of the water year.

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

The 2011 AOP is available for download at  
[http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP11\\_final.pdf](http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP11_final.pdf).

**Fontenelle Reservoir** – Inflows for the month of August were 118 kaf, or 129% of average. The reservoir elevation is 6502 feet above sea level and 91% of capacity. Current inflows are approximately 1,000 cfs and reservoir releases are 1,200 cfs. Releases will likely be close to 1,200 cfs for the fall and winter months. The reservoir elevation will continue to decline through the fall and winter.

The Colorado Basin River Forecast Center has issued the water year 2012 (October 2011 to September 2012) forecast. At this early point, inflows over the next year are expected to be 1,170 kaf, or 94% of average. Inflows over the next three months are forecasted to be above average: 75,000 acre-ft (141%), 65,000 acre-ft (125%) and 52,000 acre-ft (118%), for September, October and November 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 August was 144,000 acre-feet (AF), or 133 percent of average inflow. Spring runoff has ended and the Yampa River and Green River above Flaming Gorge Reservoir are at base flows at an average daily release of 2,450 cfs/day. Flaming Gorge reservoir elevation is decreasing and expected to continue decreasing through the winter to meet 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 2011 spring runoff. The Flaming Gorge Reservoir observed April – July unregulated inflow volume was 1,926 thousand acre-feet (kaf) or 162 percent of average. The September forecast for September and October is 85 kaf (131 percent of average) and 73 kaf (114 percent of average), respectively.

Yampa River flows during the base flow period impact hourly release schedules because flows must remain within 0.1 meter stage change as measured at the USGS stream gage located on the Green River at Jensen, Utah. As the Yampa River flows decrease, the Flaming Gorge release schedule will change.

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 Unit Reservoirs** – August unregulated inflow into Blue Mesa Reservoir was 67,000 acre-feet or 104 percent of average. Precipitation during August was below average, the observed precipitation was about 70 percent of average. The current inflow rate into Blue Mesa Reservoir is about 850 cfs while reservoir releases are averaging about 2,100 cfs. Blue Mesa's current elevation is 7509.67 feet, which corresponds to a storage content of about 743,000 acre-feet. The observed April through July runoff into Blue Mesa Reservoir was recorded at 893,000 acre-feet or about 124 percent of average runoff. The reservoir reached a high elevation of 7519.21 feet on July 19, 2011, which was approximately 0.19 feet below “full” pool. Full pool is actually defined by the top of the spillway gates at elevation 7519.4 feet, but we rarely fill to that level due to safety concerns for the reservoir. For practical purposes; the reservoir is considered full at elevations above 7516.4 feet.

Releases from Crystal are currently set at 2100 cfs. The Gunnison Diversion Tunnel is currently diverting about 1,100 cfs, which results in a river flow below the diversion tunnel of approximately 1,000 cfs. As in years past there seems to be about 100 cfs discrepancy between the different gage readings.

Other changes in reservoir operations are planned towards the end of September in order to accommodate for decreases in tunnel diversions. These and other changes to reservoir release rates may occur as conditions warrant, primarily as we respond to changes in the river inflows.

The last meeting of the "Aspinall Unit Working Group" was held on Thursday August 18<sup>th</sup> in the Elk Creek Visitors Center at Blue Mesa Reservoir. Spring and summer operations were reviewed and future fall and winter reservoir operations were 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** - As a result of warmer and drier conditions returning to the San Juan River Basin, Reclamation increased the release from Navajo Reservoir to 800 cfs on Thursday, August 10<sup>th</sup>. 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 gaged flows throughout the critical habitat area, therefore daily flows of less than 500 cfs may occur at some gages.

Reclamation continues to closely monitor weather and stream flow conditions and make adjustments to the Navajo Reservoir release as necessary.

Precipitation for the month of August in the San Juan River basin was 60 percent of average. Unregulated inflow into Navajo Reservoir during the month of August was 3,200 acre-feet, or about 7 percent of average. The total runoff for the 2010 season ending July (April-July) was recorded at 579,000 acre-feet, or about 74 percent of average runoff. The reservoir had a seasonal peak elevation of 6068.67 feet on July 1, 2011.

This year's spring peak operations happened over June 8<sup>th</sup> through June 14<sup>th</sup> when releases of 5,000 cfs were made. Release flows started to decrease on June 15<sup>th</sup> and reached 500 cfs on Friday, June 17<sup>th</sup>.

Currently the daily reservoir inflow is averaging about 400 cfs. NIIP diversions are set at about 500 cfs. The reservoir water surface elevation is currently 6059.70 feet, which corresponds to a storage content of about 1,342,000 acre-feet.

A public meeting on Navajo Reservoir operations was held on Tuesday, August 30, 2011 at 1:00 p.m. in Farmington, New Mexico. At this meeting, review of last spring and summer reservoir operations, and plans for this fall and winter 2011/2012 operations were discussed. These 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 unregulated inflow volume to Lake Powell in August was 0.858 maf (140% of average) based on the period from 1971-2000. The Colorado Basin River Forecast Center issued the official forecast for August to be 1.00 maf (162% of average). Inflows in August were somewhat less than what was expected and so the elevation at the end of August was less than what was projected in the August 24-Month Study. The August 24-month study projected the elevation of Lake Powell would be 3657.9 feet above sea level on August 31, 2011. The elevation of Lake Powell that actually occurred on August 31, 2011 was 3655.34 feet above sea level (2.6 feet below projection).

In terms of reservoir elevation and storage, Lake Powell reached its peak for water year 2011 on July 30, 2011 which was 3660.9 feet (39.1 feet from full pool) and 18.61 maf (76.5% of capacity), respectively. For comparison, the peak reservoir elevation and storage that occurred in water year 2010 was 3638.8 feet (61.2 feet below full pool) and 15.86 maf (65.2% of capacity) and this occurred on July 5, 2010. Based on these measured values, the Lake Powell peak elevation increased year over year by 22.1 feet while peak storage increased year over year by 2.75 maf.

## **Current Dam Operations**

Releases from Glen Canyon Dam are now being made for a steady flow experiment that will continue to the end of October. Releases from Glen Canyon Dam are steady at approximately 15,500 cfs and will likely remain at the level through October 31, 2011 to complete the 2 month steady flow experiment.

In early November through November 10, 2011, releases will likely continue to be steady near 15,500 cfs due to ongoing maintenance work at Glen Canyon Powerplant on units 5 and 6. On or about November 11, 2011 releases will likely be increased to approximately 22,600 cfs when units 5 and 6 are returned to service. The projected release volume for November is 1200 kaf.

While the release rate from Glen Canyon Dam over the next several months will likely be near steady, the instantaneous releases from Glen Canyon Dam may fluctuate somewhat to provide 40 MW of system regulation. These instantaneous release adjustments maintain stable conditions within the electrical generation and transmission system and result in momentary release fluctuations within a range of about 1100 cfs above or below the targeted hourly release rate. The momentary fluctuations for regulation are very short lived and typically balance out over the hour.

Spinning and non-spinning reserve generation is also maintained at Glen Canyon Dam. In order for Colorado River Storage Project (CRSP) powerplants to participate in the electrical generation and transmissions system, these powerplants must maintain a level of generation capacity available in reserve to assist the local control area for when unanticipated generation outages occur. The current CRSP powerplant reserve requirement is 100 MW (equivalent to approximately 2,675 cfs of release from Glen Canyon Dam). When an electrical outage occurs within the control area, CRSP powerplants can be called upon to provide up to 100 MW of additional generation for up to 2 hours. Under normal circumstances, calls for reserves are infrequent and for much less than the required 100 MW. Because Glen Canyon Powerplant is the largest facility of the CRSP powerplants, most of the CRSP reserve requirement is maintained at Glen Canyon Dam.

The Operating Tier for coordinated operations of Lake Powell and Lake Mead during water year 2011, pursuant to the Interim Guidelines has been the Upper Elevation Balancing Tier. In April, based on the projected end of water year elevation of Lake Powell, a shift was made such that the Equalization Tier has governed operation of Lake Powell since then. Reclamation has been operating Glen Canyon Dam with the intent of achieving Equalization by September 30, 2011. Due to significantly high inflows this spring and summer however, it is very likely that Equalization will not be fully achieved by September 30, 2011. Reclamation will continue to operate Glen Canyon Dam to release water at near full capacity of the Glen Canyon Powerplant until Equalization is fully achieved for 2011.

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

The September 24-Month Study projects the annual release volume for water year 2011 will be 12.52 maf and the end of water year reservoir elevation and storage for Lake Powell will be 3653.93 feet (46.07 feet from full pool) and 17.71 maf (72.8% of capacity), respectively.

The hydrologic outlook forecast for water year 2012 projects that the most probable (median) unregulated inflow volume will be 12.6 maf (105% of average based on the period from 1971 through 2000). Based on this hydrologic outlook, the September 24-Month Study projects the annual release from Lake Powell during water year 2012 will be 13.34 maf and the end of water year 2012 reservoir elevation and storage for Lake Powell to be 3645.41 feet (54.59 feet from full pool) and 16.65 maf (68.5% of capacity), respectively.

### **Upper Colorado River Basin Hydrology**

Since water year 2005, hydrologic conditions in the Upper Colorado River Basin have been slightly below 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 11.2 maf per year during the period from 2005 through 2011. This is slightly below the official average of 12.0 maf per year. The hydrologic variability during this period has been from a low water year unregulated inflow of 8.4 maf (70% of average) in water year 2006 to a high of over 16.8 maf (140% of average) which is the projected for water year 2011.

Overall reservoir storage in the Colorado River Basin has increased by nearly 10 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). As of September 7, 2011, the total reservoir storage in the Colorado River Basin was 38.90 maf (65.4% 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			aug			Forecast		Observed	
:	may	jun	jul	aug	%Avg	sep	oct	nov	apr-jul	%Avg
GLDA3:Lake Powell	2179	5409	4330	859	140%:	625/	650/	650/	12896/:	163%
GBRW4:Fontenelle	161	429	539	118	129%:	75/	65/	52/	1221/:	142%
GRNU1:Flaming Gorge	327	668	772	144	133%:	85/	73/	62/	1926/:	162%
BMDC2:Blue Mesa	168	425	223	67	104%:	49/	46/	37/	893/:	124%
MPSC2:Morrow Point	191	455	231	68	100%:	52/	49/	39/	961/:	122%
CLSC2:Crystal	204	516	255	75	94%:	59/	56/	45/	1067/:	117%
TPIC2:Taylor Park	22	65	37	10.8	105%:	9/	8.5/	7/	132/:	128%
VCRC2:Vallecito	44	79	23	9.6	49%:	10.7/	9.8/	7/	168/:	82%
NVRN5:Navajo	172	252	40	3.2	7%:	20/	31/	31/	579/:	74%
LEMC2:Lemon	12.1	24	4.0	2.1	43%:	2.5/	2.1/	1.25/	44/:	76%
MPHC2:McPhee	98	108	23	14.9	78%:	7.4/	7/	5.7/	275/:	86%
RBSC2:Ridgway	19.3	55	41	13.6	96%:	/	/	/	125/:	123%

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



September 2011 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)
* Sep 2010	29	2	26	35	61	6497.33	279
<b>WY 2010</b>	<b>781</b>	<b>14</b>	<b>530</b>	<b>233</b>	<b>763</b>		
H Oct 2010	31	1	5	55	59	6493.24	250
I Nov 2010	34	1	53	1	54	6490.17	229
S Dec 2010	37	1	55	0	55	6487.27	210
T Jan 2011	29	1	55	0	55	6482.87	183
O Feb 2011	26	1	50	0	50	6478.35	158
R Mar 2011	36	1	58	0	58	6473.74	136
I Apr 2011	92	1	84	15	100	6471.99	128
C May 2011	161	1	89	79	168	6470.20	120
A Jun 2011	429	1	87	283	370	6481.96	178
L Jul 2011	539	2	110	313	424	6498.87	290
* Aug 2011	118	2	88	1	89	6502.38	317
Sep 2011	75	2	36	30	66	6503.27	324
<b>WY 2011</b>	<b>1607</b>	<b>14</b>	<b>771</b>	<b>778</b>	<b>1549</b>		
Oct 2011	65	1	74	0	74	6501.97	314
Nov 2011	52	1	71	0	71	6499.32	294
Dec 2011	44	1	74	0	74	6495.13	263
Jan 2012	39	1	74	0	74	6489.86	228
Feb 2012	37	1	67	0	67	6485.26	197
Mar 2012	54	1	74	0	74	6481.84	177
Apr 2012	90	1	95	0	95	6480.80	171
May 2012	179	1	102	53	155	6484.67	194
Jun 2012	315	2	103	105	208	6499.96	299
Jul 2012	168	3	101	19	120	6505.77	344
Aug 2012	75	2	87	0	87	6503.94	329
Sep 2012	54	2	72	0	72	6501.44	310
<b>WY 2012</b>	<b>1172</b>	<b>16</b>	<b>993</b>	<b>177</b>	<b>1170</b>		
Oct 2012	52	1	73	0	73	6498.47	287
Nov 2012	43	1	71	0	71	6494.47	259
Dec 2012	32	1	73	0	73	6488.22	217
Jan 2013	30	1	73	0	73	6481.07	173
Feb 2013	28	1	66	0	66	6473.34	134
Mar 2013	52	0	73	0	73	6468.18	112
Apr 2013	89	1	83	0	83	6469.59	117
May 2013	176	1	99	9	108	6483.07	184
Jun 2013	307	2	103	87	190	6500.04	299
Jul 2013	185	3	101	39	140	6505.51	342
Aug 2013	82	2	88	0	88	6504.52	334

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	22	54	10	106	0	106	127	6024.83	3154	127
	<b>WY 2010</b>	<b>1018</b>	<b>1000</b>	<b>79</b>	<b>1168</b>	<b>1</b>	<b>1169</b>				<b>2764</b>
H	Oct 2010	32	60	7	77	0	77	126	6024.21	3131	113
I	Nov 2010	31	52	4	63	0	63	125	6023.83	3117	107
S	Dec 2010	45	64	2	68	0	68	125	6023.67	3111	114
T	Jan 2011	44	70	2	68	0	68	125	6023.69	3112	525
O	Feb 2011	36	60	2	67	0	67	125	6023.47	3104	489
R	Mar 2011	98	120	3	59	0	59	127	6024.99	3160	181
I	Apr 2011	159	166	5	172	0	172	127	6024.71	3150	472
C	May 2011	327	334	8	279	47	326	127	6024.73	3150	1108
A	Jun 2011	667	608	10	254	173	427	133	6029.11	3315	1570
L	Jul 2011	771	656	14	263	94	357	144	6036.07	3590	908
*	Aug 2011	144	115	13	148	0	148	142	6034.95	3544	259
	Sep 2011	85	76	12	146	0	146	139	6033.00	3466	146
	<b>WY 2011</b>	<b>2441</b>	<b>2382</b>	<b>81</b>	<b>1663</b>	<b>314</b>	<b>1976</b>				<b>5991</b>
	Oct 2011	73	82	8	128	0	128	137	6031.68	3414	128
	Nov 2011	62	81	4	122	0	122	136	6030.59	3372	122
	Dec 2011	56	86	2	126	0	126	134	6029.55	3331	126
	Jan 2012	50	85	2	126	0	126	132	6028.46	3290	126
	Feb 2012	48	78	2	118	0	118	131	6027.39	3249	118
	Mar 2012	80	100	3	126	0	126	130	6026.64	3221	126
	Apr 2012	129	134	5	122	0	122	130	6026.82	3228	122
	May 2012	260	236	8	165	0	165	132	6028.44	3289	165
	Jun 2012	385	278	10	264	0	264	132	6028.54	3293	264
	Jul 2012	184	136	14	101	0	101	133	6029.08	3314	101
	Aug 2012	84	96	13	100	0	100	133	6028.67	3298	100
	Sep 2012	62	80	11	97	0	97	132	6027.95	3271	97
	<b>WY 2012</b>	<b>1473</b>	<b>1471</b>	<b>80</b>	<b>1594</b>	<b>0</b>	<b>1594</b>				<b>1594</b>
	Oct 2012	61	83	7	100	0	100	131	6027.33	3247	100
	Nov 2012	51	79	3	97	0	97	130	6026.80	3227	97
	Dec 2012	36	77	2	100	0	100	129	6026.18	3204	100
	Jan 2013	41	84	2	100	0	100	128	6025.73	3187	100
	Feb 2013	46	84	2	90	0	90	128	6025.52	3179	90
	Mar 2013	104	126	3	100	0	100	129	6026.10	3201	100
	Apr 2013	142	136	5	97	0	97	130	6026.99	3234	97
	May 2013	265	197	8	135	0	135	132	6028.37	3287	135
	Jun 2013	399	281	10	205	0	205	135	6030.02	3350	205
	Jul 2013	218	173	14	98	0	98	137	6031.52	3408	98
	Aug 2013	96	102	13	98	0	98	137	6031.29	3399	98

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
* Sep 2010	6	14	9311.57	72
<b>WY 2010</b>	<b>121</b>	<b>122</b>		
H Oct 2010	7	6	9312.21	73
I Nov 2010	5	5	9312.27	74
S Dec 2010	5	5	9312.71	74
T Jan 2011	5	5	9312.70	74
O Feb 2011	4	4	9312.51	74
R Mar 2011	5	6	9311.89	73
I Apr 2011	7	8	9311.44	72
C May 2011	22	33	9304.21	61
A Jun 2011	65	28	9326.09	98
L Jul 2011	37	39	9325.07	96
* Aug 2011	11		9318.44	84
Sep 2011	9	16	9314.41	77
<b>WY 2011</b>	<b>180</b>	<b>153</b>		
Oct 2011	9	10	9313.52	76
Nov 2011	7	6	9314.12	77
Dec 2011	6	6	9313.82	76
Jan 2012	5	6	9313.22	75
Feb 2012	5	6	9312.31	74
Mar 2012	5	6	9311.39	72
Apr 2012	9	12	9309.52	69
May 2012	30	20	9315.58	79
Jun 2012	47	24	9327.97	102
Jul 2012	19	24	9325.42	97
Aug 2012	10	22	9318.72	85
Sep 2012	8	16	9313.82	76
<b>WY 2012</b>	<b>157</b>	<b>158</b>		
Oct 2012	6	10	9311.69	73
Nov 2012	5	6	9311.09	72
Dec 2012	4	6	9310.14	70
Jan 2013	4	6	9309.00	68
Feb 2013	4	6	9307.71	66
Mar 2013	4	6	9306.56	65
Apr 2013	8	8	9306.78	65
May 2013	27	14	9314.96	78
Jun 2013	43	20	9327.38	101
Jul 2013	20	20	9327.59	101
Aug 2013	10	20	9322.40	91

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	23	31	1	86	0	86	7493.54	609
	<b>WY 2010</b>	<b>725</b>	<b>727</b>	<b>8</b>	<b>754</b>	<b>6</b>	<b>760</b>		
H	Oct 2010	29	29	1	85	0	85	7486.20	552
I	Nov 2010	27	27	0	24	0	24	7486.60	555
S	Dec 2010	30	29	0	27	0	27	7486.84	557
T	Jan 2011	23	23	0	27	0	27	7486.34	553
O	Feb 2011	21	21	0	43	0	43	7483.46	532
R	Mar 2011	38	39	0	75	0	75	7478.48	495
I	Apr 2011	77	78	1	95	0	95	7475.97	477
C	May 2011	168	179	1	162	0	162	7478.26	493
A	Jun 2011	425	389	1	127	19	146	7508.73	735
L	Jul 2011	222	222	2	150	0	150	7516.80	806
*	Aug 2011	67	79	1	123	0	123	7511.67	760
	Sep 2011	49	56	1	116	0	116	7504.57	699
	<b>WY 2011</b>	<b>1176</b>	<b>1171</b>	<b>8</b>	<b>1054</b>	<b>19</b>	<b>1072</b>		
	Oct 2011	46	48	1	82	0	82	7500.37	664
	Nov 2011	37	36	0	52	0	52	7498.38	648
	Dec 2011	30	31	0	97	0	97	7490.00	581
	Jan 2012	29	30	0	88	0	88	7482.34	523
	Feb 2012	25	27	0	62	0	62	7477.43	487
	Mar 2012	35	37	0	38	0	38	7477.17	486
	Apr 2012	81	84	1	47	0	47	7482.16	522
	May 2012	240	230	1	139	0	139	7493.89	612
	Jun 2012	285	262	1	70	0	70	7516.40	802
	Jul 2012	105	110	2	114	0	114	7515.75	797
	Aug 2012	55	68	1	124	0	124	7509.20	739
	Sep 2012	44	53	1	114	0	114	7501.83	676
	<b>WY 2012</b>	<b>1012</b>	<b>1013</b>	<b>9</b>	<b>1027</b>	<b>0</b>	<b>1027</b>		
	Oct 2012	41	44	1	70	0	70	7498.63	650
	Nov 2012	33	34	0	40	0	40	7497.82	644
	Dec 2012	25	27	0	89	0	89	7490.00	581
	Jan 2013	24	26	0	79	0	79	7482.99	528
	Feb 2013	22	24	0	54	0	54	7478.87	498
	Mar 2013	34	36	0	36	0	36	7478.80	497
	Apr 2013	73	73	1	48	0	48	7482.08	521
	May 2013	212	199	1	107	0	107	7493.90	612
	Jun 2013	271	248	1	66	0	66	7515.32	793
	Jul 2013	121	120	2	109	0	109	7516.40	802
	Aug 2013	62	72	1	122	0	122	7510.58	751

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	23	86	0	87	92	0	92	7148.78	108
	<b>WY 2010</b>	<b>773</b>	<b>760</b>	<b>48</b>	<b>807</b>	<b>805</b>	<b>0</b>	<b>805</b>		
H	Oct 2010	30	85	1	86	82	0	82	7153.88	112
I	Nov 2010	29	24	1	25	26	0	26	7152.79	111
S	Dec 2010	30	27	0	28	27	0	27	7153.98	112
T	Jan 2011	23	27	0	27	27	0	27	7153.70	112
O	Feb 2011	21	43	0	43	44	0	44	7152.08	111
R	Mar 2011	38	75	1	75	73	0	73	7154.37	113
I	Apr 2011	84	95	7	102	104	0	104	7152.20	111
C	May 2011	191	162	23	185	181	0	181	7156.18	114
A	Jun 2011	455	146	30	176	170	0	176	7155.72	114
L	Jul 2011	231	150	9	159	159	0	159	7155.22	113
*	Aug 2011	68	123	1	125	124	0	124	7155.77	114
	Sep 2011	52	116	3	119	121	0	121	7153.73	112
	<b>WY 2011</b>	<b>1253</b>	<b>1072</b>	<b>77</b>	<b>1149</b>	<b>1138</b>	<b>0</b>	<b>1144</b>		
	Oct 2011	49	82	3	85	85	0	85	7153.73	112
	Nov 2011	39	52	2	54	54	0	54	7153.73	112
	Dec 2011	32	97	2	99	99	0	99	7153.73	112
	Jan 2012	32	88	3	91	91	0	91	7153.73	112
	Feb 2012	28	62	3	65	65	0	65	7153.73	112
	Mar 2012	39	38	4	42	42	0	42	7153.73	112
	Apr 2012	93	47	12	59	59	0	59	7153.73	112
	May 2012	270	139	30	169	169	0	169	7153.73	112
	Jun 2012	305	70	20	90	90	0	90	7153.73	112
	Jul 2012	110	114	5	119	119	0	119	7153.73	112
	Aug 2012	58	124	3	127	127	0	127	7153.73	112
	Sep 2012	47	114	3	117	117	0	117	7153.73	112
	<b>WY 2012</b>	<b>1102</b>	<b>1027</b>	<b>90</b>	<b>1117</b>	<b>1117</b>	<b>0</b>	<b>1117</b>		
	Oct 2012	44	70	3	73	73	0	73	7153.73	112
	Nov 2012	35	40	2	42	42	0	42	7153.73	112
	Dec 2012	27	89	2	91	91	0	91	7153.73	112
	Jan 2013	26	79	2	81	81	0	81	7153.73	112
	Feb 2013	25	54	3	57	57	0	57	7153.73	112
	Mar 2013	38	36	4	40	40	0	40	7153.73	112
	Apr 2013	84	48	11	59	59	0	59	7153.73	112
	May 2013	237	107	25	132	132	0	132	7153.73	112
	Jun 2013	292	66	21	87	87	0	87	7153.73	112
	Jul 2013	127	109	7	116	116	0	116	7153.73	112
	Aug 2013	65	122	4	126	126	0	126	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	26	92	3	95	95	0	95	6748.16	16	63	36
	<b>WY 2010</b>	<b>859</b>	<b>805</b>	<b>86</b>	<b>891</b>	<b>824</b>	<b>63</b>	<b>890</b>			<b>415</b>	<b>528</b>
H	Oct 2010	34	82	4	86	85	0	85	6750.41	16	51	33
I	Nov 2010	32	26	4	30	30	0	30	6748.60	16	1	29
S	Dec 2010	34	27	4	31	31	0	31	6748.24	16	1	30
T	Jan 2011	27	27	4	31	30	1	31	6749.02	16	1	30
O	Feb 2011	24	44	3	47	24	23	46	6751.55	17	1	47
R	Mar 2011	43	73	5	78	78	0	78	6751.94	17	5	76
I	Apr 2011	92	104	8	112	110	2	112	6752.03	17	38	79
C	May 2011	204	181	13	195	126	68	194	6753.39	17	63	137
A	Jun 2011	516	176	61	237	120	81	237	6752.90	17	62	183
L	Jul 2011	255	159	23	182	128	58	186	6739.47	13	62	136
*	Aug 2011	75	124	7	131	126	2	129	6748.39	16	66	70
	Sep 2011	59	121	7	128	126	0	126	6753.04	17	55	71
	<b>WY 2011</b>	<b>1395</b>	<b>1144</b>	<b>143</b>	<b>1287</b>	<b>1014</b>	<b>235</b>	<b>1285</b>			<b>404</b>	<b>921</b>
	Oct 2011	56	85	7	92	92	0	92	6753.04	17	30	62
	Nov 2011	45	54	6	60	60	0	60	6753.04	17	0	60
	Dec 2011	37	99	5	104	104	0	104	6753.04	17	0	104
	Jan 2012	39	91	7	98	98	0	98	6753.04	17	0	98
	Feb 2012	32	65	4	69	69	0	69	6753.04	17	0	69
	Mar 2012	45	42	6	48	48	0	48	6753.04	17	5	43
	Apr 2012	106	59	13	72	72	0	72	6753.04	17	30	42
	May 2012	305	169	35	204	134	70	204	6753.04	17	55	149
	Jun 2012	345	90	40	130	130	0	130	6753.04	17	60	70
	Jul 2012	124	119	14	133	133	0	133	6753.04	17	65	68
	Aug 2012	65	127	7	134	134	0	134	6753.04	17	65	69
	Sep 2012	54	117	7	124	124	0	124	6753.04	17	55	69
	<b>WY 2012</b>	<b>1253</b>	<b>1117</b>	<b>151</b>	<b>1268</b>	<b>1198</b>	<b>70</b>	<b>1268</b>			<b>365</b>	<b>903</b>
	Oct 2012	50	73	7	79	79	0	79	6753.04	17	30	49
	Nov 2012	40	42	5	48	48	0	48	6753.04	17	0	48
	Dec 2012	32	91	5	96	96	0	96	6753.04	17	0	96
	Jan 2013	31	81	5	86	86	0	86	6753.04	17	0	86
	Feb 2013	29	57	4	61	61	0	61	6753.04	17	0	61
	Mar 2013	46	40	7	47	47	0	47	6753.04	17	5	42
	Apr 2013	96	59	12	71	71	0	71	6753.04	17	30	41
	May 2013	272	132	35	167	134	33	167	6753.04	17	55	112
	Jun 2013	330	87	38	125	125	0	125	6753.04	17	60	65
	Jul 2013	144	116	17	133	133	0	133	6753.04	17	65	68
	Aug 2013	74	126	8	134	134	0	134	6753.04	17	65	69

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
* Sep 2010	10	26	7637.70	59
<b>WY 2010</b>	<b>210</b>	<b>196</b>		
H Oct 2010	12	13	7636.95	58
I Nov 2010	7	2	7639.20	63
S Dec 2010	6	2	7641.20	67
T Jan 2011	5	2	7642.53	70
O Feb 2011	4	2	7643.62	72
R Mar 2011	7	2	7645.67	77
I Apr 2011	22	4	7653.10	95
C May 2011	44	27	7659.70	111
A Jun 2011	79	64	7664.94	125
L Jul 2011	23	39	7658.78	109
* Aug 2011	10	37	7647.29	81
Sep 2011	11	30	7638.59	61
<b>WY 2011</b>	<b>229</b>	<b>223</b>		
Oct 2011	10	16	7635.58	55
Nov 2011	7	1	7638.26	61
Dec 2011	6	2	7640.35	65
Jan 2012	5	2	7641.92	68
Feb 2012	5	1	7643.27	71
Mar 2012	8	2	7645.83	77
Apr 2012	23	3	7654.07	97
May 2012	73	55	7660.77	114
Jun 2012	80	70	7664.41	124
Jul 2012	27	41	7658.75	109
Aug 2012	18	38	7650.77	89
Sep 2012	15	29	7644.71	75
<b>WY 2012</b>	<b>276</b>	<b>259</b>		
Oct 2012	13	13	7644.42	74
Nov 2012	8	6	7645.29	76
Dec 2012	6	5	7645.89	77
Jan 2013	5	3	7646.77	79
Feb 2013	5	3	7647.58	81
Mar 2013	8	3	7649.60	86
Apr 2013	22	10	7654.22	97
May 2013	69	65	7655.78	101
Jun 2013	78	66	7659.97	112
Jul 2013	31	43	7655.01	99
Aug 2013	19	39	7646.54	79

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	24	1	39	3	25	45	6064.97	1412	57
	<b>WY 2010</b>	<b>855</b>	<b>89</b>	<b>753</b>	<b>29</b>	<b>202</b>	<b>423</b>			<b>802</b>
H	Oct 2010	24	0	26	2	8	36	6063.49	1393	46
I	Nov 2010	17	0	12	1	1	29	6062.08	1374	46
S	Dec 2010	23	0	19	1	1	30	6061.11	1362	42
T	Jan 2011	16	0	13	1	1	31	6059.58	1342	50
O	Feb 2011	18	0	15	1	1	28	6058.41	1328	45
R	Mar 2011	41	2	35	2	4	31	6058.28	1326	46
I	Apr 2011	115	14	84	2	19	31	6060.75	1357	44
C	May 2011	172	22	134	4	28	32	6066.13	1428	79
A	Jun 2011	252	43	193	4	42	113	6068.65	1462	295
L	Jul 2011	40	8	46	5	48	31	6065.88	1424	98
*	Aug 2011	3	2	29	4	47	46	6060.64	1356	47
	Sep 2011	20	1	38	3	22	38	6058.66	1331	38
	<b>WY 2011</b>	<b>742</b>	<b>92</b>	<b>645</b>	<b>28</b>	<b>222</b>	<b>476</b>			<b>876</b>
	Oct 2011	31	0	37	2	8	31	6058.39	1327	31
	Nov 2011	31	0	25	1	0	30	6057.97	1322	30
	Dec 2011	23	0	19	1	0	31	6056.93	1309	31
	Jan 2012	21	0	18	1	0	31	6055.80	1295	31
	Feb 2012	28	0	25	1	0	28	6055.49	1292	28
	Mar 2012	83	1	76	2	4	31	6058.70	1331	31
	Apr 2012	161	16	125	3	17	34	6064.29	1403	34
	May 2012	285	35	232	4	29	200	6064.25	1403	200
	Jun 2012	245	27	208	4	44	212	6060.18	1350	212
	Jul 2012	56	4	67	4	47	37	6058.50	1329	37
	Aug 2012	35	2	53	4	40	42	6055.91	1297	42
	Sep 2012	35	1	48	3	22	36	6054.85	1284	36
	<b>WY 2012</b>	<b>1034</b>	<b>85</b>	<b>932</b>	<b>27</b>	<b>210</b>	<b>742</b>			<b>742</b>
	Oct 2012	36	0	36	2	8	31	6054.52	1280	31
	Nov 2012	31	0	29	1	0	30	6054.38	1278	30
	Dec 2012	24	0	22	1	0	31	6053.64	1269	31
	Jan 2013	22	0	20	1	0	31	6052.67	1257	31
	Feb 2013	30	0	29	1	0	27	6052.73	1258	27
	Mar 2013	88	1	83	2	4	31	6056.53	1304	31
	Apr 2013	174	16	146	2	17	34	6063.84	1397	34
	May 2013	279	35	239	4	29	200	6064.32	1404	200
	Jun 2013	246	27	208	4	44	212	6060.26	1351	212
	Jul 2013	74	4	82	4	47	37	6059.84	1346	37
	Aug 2013	43	2	62	4	40	42	6057.98	1322	42

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	277	461	58	480	0	480	3633.66	18075	15267	490
	<b>WY 2010</b>	<b>8634</b>	<b>8674</b>	<b>444</b>	<b>8234</b>	<b>0</b>	<b>8235</b>				<b>8419</b>
H	Oct 2010	362	512	41	495	0	495	3634.08	18003	15315	502
I	Nov 2010	438	474	39	810	0	810	3630.31	18056	14888	826
S	Dec 2010	416	446	30	847	0	847	3626.54	18044	14469	865
T	Jan 2011	381	429	9	997	0	997	3620.55	18113	13822	1015
O	Feb 2011	317	377	10	964	0	964	3614.95	18103	13235	984
R	Mar 2011	579	581	16	1033	0	1033	3610.73	18066	12804	1055
I	Apr 2011	977	937	25	940	0	940	3611.93	17917	12926	965
C	May 2011	2178	2205	30	1171	0	1171	3623.13	17749	14098	1207
A	Jun 2011	5408	4866	54	1377	0	1377	3648.98	18193	17089	1419
L	Jul 2011	4328	3756	74	1483	0	1483	3660.86	18876	18605	1532
*	Aug 2011	858	974	74	1479	0	1479	3655.34	19012	17890	1530
	Sep 2011	625	794	67	922	0	922	3653.93	18998	17709	922
	<b>WY 2011</b>	<b>16868</b>	<b>16351</b>	<b>467</b>	<b>12518</b>	<b>0</b>	<b>12518</b>				<b>12820</b>
	Oct 2011	650	749	46	953	0	953	3652.09	18979	17478	953
	Nov 2011	650	724	43	1200	0	1200	3648.23	18941	16997	1200
	Dec 2011	550	695	34	1330	0	1330	3643.15	18891	16378	1330
	Jan 2012	500	645	10	1200	0	1200	3638.73	18850	15854	1200
	Feb 2012	450	557	11	920	0	920	3635.76	18822	15508	920
	Mar 2012	700	702	18	1000	0	1000	3633.20	18798	15214	1000
	Apr 2012	1100	964	29	1130	0	1130	3631.61	18784	15034	1130
	May 2012	2600	2383	35	1150	0	1150	3641.18	18873	16143	1150
	Jun 2012	3050	2752	58	1140	0	1140	3652.92	18988	17582	1140
	Jul 2012	1250	1207	72	1220	0	1220	3652.30	18982	17504	1220
	Aug 2012	550	683	70	1190	0	1190	3648.01	18939	16970	1190
	Sep 2012	500	629	63	910	0	910	3645.41	18913	16651	910
	<b>WY 2012</b>	<b>12550</b>	<b>12689</b>	<b>490</b>	<b>13343</b>	<b>0</b>	<b>13343</b>				<b>13343</b>
	Oct 2012	544	615	43	941	0	941	3642.57	18886	16308	941
	Nov 2012	539	590	41	600	0	600	3642.17	18882	16261	600
	Dec 2012	414	548	33	800	0	800	3639.95	18861	15998	800
	Jan 2013	384	507	10	800	0	800	3637.56	18839	15717	800
	Feb 2013	398	471	11	800	0	800	3634.84	18813	15402	800
	Mar 2013	628	573	18	600	0	600	3634.47	18810	15360	600
	Apr 2013	950	772	29	850	0	850	3633.61	18802	15261	850
	May 2013	2161	1912	35	950	0	950	3640.98	18871	16119	950
	Jun 2013	2811	2449	58	1000	0	1000	3651.53	18974	17407	1000
	Jul 2013	1346	1227	71	1100	0	1100	3651.95	18978	17459	1100
	Aug 2013	566	669	70	1017	0	1017	3648.84	18947	17071	1017

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	480	82	59	758	12.7	23	755	656	1083.81	10092
	<b>WY 2010</b>	<b>8235</b>	<b>928</b>	<b>564</b>	<b>9260</b>		<b>235</b>	<b>9039</b>			
H	Oct 2010	495	80	42	638	10.4	24	607	648	1082.36	9971
I	Nov 2010	810	13	42	800	13.4	18	795	646	1081.94	9936
S	Dec 2010	847	248	37	660	10.7	9	630	670	1086.30	10301
T	Jan 2011	997	74	31	540	8.8	8	526	700	1091.73	10765
O	Feb 2011	964	84	29	635	11.4	9	616	723	1095.78	11117
R	Mar 2011	1033	77	33	1006	16.4	15	1002	726	1096.39	11170
I	Apr 2011	940	140	40	1078	18.1	20	1066	722	1095.76	11115
C	May 2011	1171	104	47	1001	16.3	25	997	735	1097.90	11304
A	Jun 2011	1377	76	57	939	15.8	29	938	761	1102.38	11705
L	Jul 2011	1483	74	73	1001	16.3	27	1000	789	1107.07	12133
*	Aug 2011	1479	97	80	831	13.5	29	829	827	1113.45	12730
	Sep 2011	922	70	67	695	11.7	17	695	841	1115.55	12931
	<b>WY 2011</b>	<b>12518</b>	<b>1136</b>	<b>578</b>	<b>9825</b>		<b>229</b>	<b>9703</b>			
	Oct 2011	953	59	49	435	7.1	21	435	871	1120.50	13407
	Nov 2011	1200	48	50	574	9.6	20	574	908	1126.24	13975
	Dec 2011	1330	99	45	478	7.8	15	478	963	1134.45	14811
	Jan 2012	1200	76	38	697	11.3	16	697	995	1139.17	15305
	Feb 2012	920	92	35	719	12.5	14	719	1010	1141.33	15533
	Mar 2012	1000	80	39	1018	16.6	20	1018	1010	1141.35	15535
	Apr 2012	1130	60	49	1140	19.2	16	1140	1009	1141.21	15521
	May 2012	1150	49	57	983	16.0	27	983	1020	1142.81	15692
	Jun 2012	1140	23	69	850	14.3	22	850	1042	1145.90	16027
	Jul 2012	1220	50	88	890	14.5	24	890	1068	1149.54	16428
	Aug 2012	1190	109	95	811	13.2	26	811	1072	1150.19	16500
	Sep 2012	910	70	79	668	11.2	18	668	1086	1151.99	16702
	<b>WY 2012</b>	<b>13343</b>	<b>815</b>	<b>694</b>	<b>9264</b>		<b>239</b>	<b>9264</b>			
	Oct 2012	941	59	58	398	6.5	22	398	1117	1156.27	17192
	Nov 2012	600	48	59	633	10.6	21	633	1113	1155.74	17131
	Dec 2012	800	99	51	555	9.0	17	555	1130	1157.97	17390
	Jan 2013	800	76	42	709	11.5	16	709	1137	1158.83	17492
	Feb 2013	800	92	39	715	12.9	15	715	1144	1159.81	17607
	Mar 2013	600	80	43	1053	17.1	21	1053	1118	1156.31	17196
	Apr 2013	850	60	53	1142	19.2	17	1142	1099	1153.85	16913
	May 2013	950	49	60	1031	16.8	27	1031	1092	1152.86	16800
	Jun 2013	1000	23	73	958	16.1	23	958	1093	1153.02	16818
	Jul 2013	1100	50	91	949	15.4	25	949	1098	1153.72	16899
	Aug 2013	1017	109	98	859	14.0	27	859	1109	1155.18	17066

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	758	-2	18	833	0	833	14.0	638.40	1575
	<b>WY 2010</b>	<b>9260</b>	<b>-172</b>	<b>197</b>	<b>8816</b>	<b>0</b>	<b>8816</b>			
H	Oct 2010	638	6	15	766	0	766	12.5	633.10	1437
I	Nov 2010	800	-29	10	631	0	631	10.6	638.09	1567
S	Dec 2010	660	-15	9	553	0	553	9.0	641.21	1650
T	Jan 2011	540	-7	10	502	0	502	8.2	641.95	1670
O	Feb 2011	635	-10	10	586	0	586	10.5	643.01	1699
R	Mar 2011	1006	-11	13	976	0	976	15.9	643.23	1705
I	Apr 2011	1078	-13	17	1047	0	1047	17.6	643.30	1707
C	May 2011	1001	-10	22	949	0	949	15.4	644.04	1727
A	Jun 2011	939	-9	25	954	0	954	16.0	642.27	1679
L	Jul 2011	1001	-10	25	943	0	943	15.3	643.11	1702
*	Aug 2011	831	-6	23	822	0	822	13.4	642.38	1682
	Sep 2011	695	1	18	756	0	756	12.7	639.51	1604
	<b>WY 2011</b>	<b>9825</b>	<b>-113</b>	<b>198</b>	<b>9484</b>	<b>0</b>	<b>9484</b>			
	Oct 2011	435	3	15	593	0	593	9.6	633.00	1434
	Nov 2011	574	-10	10	502	0	502	8.4	635.00	1486
	Dec 2011	478	-13	9	359	0	359	5.8	638.71	1583
	Jan 2012	697	-17	10	588	0	588	9.6	641.80	1666
	Feb 2012	719	-6	10	704	0	704	12.2	641.80	1666
	Mar 2012	1018	-15	13	956	0	956	15.5	643.05	1700
	Apr 2012	1140	-15	17	1110	0	1110	18.7	643.00	1699
	May 2012	983	-10	22	951	0	951	15.5	643.00	1699
	Jun 2012	850	-6	25	846	0	846	14.2	642.00	1671
	Jul 2012	890	1	25	879	0	879	14.3	641.50	1658
	Aug 2012	811	-5	23	784	0	784	12.7	641.50	1658
	Sep 2012	668	1	18	744	0	744	12.5	638.00	1564
	<b>WY 2012</b>	<b>9264</b>	<b>-91</b>	<b>197</b>	<b>9016</b>	<b>0</b>	<b>9016</b>			
	Oct 2012	398	3	14	579	0	579	9.4	630.49	1371
	Nov 2012	633	-10	10	499	0	499	8.4	635.00	1486
	Dec 2012	555	-13	9	435	0	435	7.1	638.71	1583
	Jan 2013	709	-17	10	600	0	600	9.8	641.80	1666
	Feb 2013	715	-6	10	700	0	700	12.6	641.80	1666
	Mar 2013	1053	-15	13	991	0	991	16.1	643.05	1700
	Apr 2013	1142	-15	17	1111	0	1111	18.7	643.00	1699
	May 2013	1031	-10	22	998	0	998	16.2	643.00	1699
	Jun 2013	958	-6	25	954	0	954	16.0	642.00	1671
	Jul 2013	949	1	25	938	0	938	15.3	641.50	1658
	Aug 2013	859	-5	23	831	0	831	13.5	641.50	1658

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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)
*	Sep 2010	833	17	15	583	9.8	98	171	446.95	560	93	1.6
	<b>WY 2010</b>	<b>8816</b>	<b>318</b>	<b>140</b>	<b>6298</b>		<b>1043</b>	<b>1572</b>			<b>1619</b>	
H	Oct 2010	766	25	12	465	7.6	102	166	449.14	602	106	1.7
I	Nov 2010	631	38	9	428	7.2	98	159	447.59	572	114	1.9
S	Dec 2010	553	33	7	290	4.7	93	183	448.10	582	147	2.4
T	Jan 2011	502	8	6	391	6.4	52	89	446.40	550	141	2.3
O	Feb 2011	586	15	8	415	7.5	22	135	447.29	567	173	3.1
R	Mar 2011	976	6	9	694	11.3	71	186	448.06	581	199	3.2
I	Apr 2011	1047	18	11	786	13.2	71	180	448.54	590	204	3.4
C	May 2011	949	17	13	691	11.2	83	167	448.68	593	115	1.9
A	Jun 2011	954	14	15	708	11.9	96	155	447.73	575	120	2.0
L	Jul 2011	943	35	17	762	12.4	100	77	448.22	584	127	2.1
*	Aug 2011	822	26	17	669	10.9	91	60	448.13	583	97	1.6
	Sep 2011	756	15	15	546	9.2	82	121	448.00	580	89	1.5
	<b>WY 2011</b>	<b>9484</b>	<b>249</b>	<b>140</b>	<b>6845</b>		<b>961</b>	<b>1677</b>			<b>1633</b>	
	Oct 2011	593	20	12	435	7.1	18	140	448.00	580	55	0.9
	Nov 2011	502	26	9	354	5.9	14	165	447.00	561	93	1.6
	Dec 2011	359	21	7	245	4.0	14	109	447.00	561	90	1.5
	Jan 2012	588	15	6	342	5.6	85	165	447.00	561	122	2.0
	Feb 2012	704	6	8	464	8.1	77	156	447.00	561	153	2.7
	Mar 2012	956	22	9	702	11.4	85	174	447.00	561	208	3.4
	Apr 2012	1110	18	11	827	13.9	83	166	448.70	593	200	3.4
	May 2012	951	13	13	696	11.3	86	159	448.70	593	111	1.8
	Jun 2012	846	9	16	653	11.0	83	90	448.70	593	112	1.9
	Jul 2012	879	15	17	719	11.7	85	72	448.00	580	118	1.9
	Aug 2012	784	18	17	629	10.2	85	68	447.50	571	92	1.5
	Sep 2012	744	15	15	540	9.1	61	148	446.81	557	89	1.5
	<b>WY 2012</b>	<b>9016</b>	<b>199</b>	<b>140</b>	<b>6604</b>		<b>774</b>	<b>1611</b>			<b>1444</b>	
	Oct 2012	579	20	12	452	7.3	24	113	446.31	548	72	1.2
	Nov 2012	499	26	8	371	6.2	24	111	446.50	552	105	1.8
	Dec 2012	435	21	6	295	4.8	24	125	446.50	552	118	1.9
	Jan 2013	600	15	6	356	5.8	106	141	446.50	552	122	2.0
	Feb 2013	700	6	8	462	8.3	96	135	446.50	552	153	2.8
	Mar 2013	991	22	9	708	11.5	106	178	446.70	555	208	3.4
	Apr 2013	1111	18	11	796	13.4	103	172	448.70	593	200	3.4
	May 2013	998	13	13	703	11.4	106	178	448.70	593	111	1.8
	Jun 2013	954	9	16	676	11.4	103	155	448.70	593	112	1.9
	Jul 2013	938	15	17	731	11.9	106	98	448.00	580	118	1.9
	Aug 2013	831	18	17	626	10.2	106	97	447.50	571	92	1.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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
*	Sep 2010	758	12.7	1083.81	10092	-261	439.46	1617.0	285.1	100	375.9
	<b>WY 2010</b>	<b>9260</b>							<b>3588.7</b>		
H	Oct 2010	638	10.4	1082.36	9971	-121	440.25	1104.0	241.3	68	378.5
I	Nov 2010	800	13.4	1081.94	9936	-35	437.87	1185.0	305.1	74	381.4
S	Dec 2010	660	10.7	1086.30	10301	365	439.05	1388.0	246.5	87	373.5
T	Jan 2011	540	8.8	1091.73	10765	463	446.84	1103.0	200.9	69	372.4
O	Feb 2011	635	11.4	1095.78	11117	353	447.78	1414.0	244.7	88	385.7
R	Mar 2011	1006	16.4	1096.39	11170	54	449.79	1232.0	398.2	75	395.8
I	Apr 2011	1078	18.1	1095.76	11115	-55	449.53	1157.0	430.9	70	399.6
C	May 2011	1001	16.3	1097.90	11304	189	452.71	1468.0	394.5	88	393.9
A	Jun 2011	939	15.8	1102.38	11705	401	457.87	1661.0	372.1	100	396.2
L	Jul 2011	1001	16.3	1107.07	12133	429	462.21	1698.0	403.2	100	402.6
*	Aug 2011	831	13.5	1113.45	12730	597	469.04	1721.0	339.8	100	408.9
	Sep 2011	695	11.7	1115.55	12931	200	462.10	1757.0	284.0	100	408.6
	<b>WY 2011</b>	<b>9825</b>							<b>3861.4</b>		
	Oct 2011	435	7.1	1120.50	13407	476	470.93	1336.0	177.7	74	408.6
	Nov 2011	574	9.6	1126.24	13975	567	477.55	1499.0	239.8	81	417.9
	Dec 2011	478	7.8	1134.45	14811	837	483.88	1325.0	202.7	70	423.6
	Jan 2012	697	11.3	1139.17	15305	494	489.04	1181.0	303.6	61	435.7
	Feb 2012	719	12.5	1141.33	15533	229	491.40	1200.0	319.3	62	443.8
	Mar 2012	1018	16.6	1141.35	15535	2	489.94	1570.0	445.9	81	437.9
	Apr 2012	1140	19.2	1141.21	15521	-14	488.82	1685.0	506.9	87	444.7
	May 2012	983	16.0	1142.81	15692	171	489.59	1685.0	433.3	87	440.7
	Jun 2012	850	14.3	1145.90	16027	334	490.81	1953.0	375.0	100	441.2
	Jul 2012	890	14.5	1149.54	16428	402	494.66	1974.0	395.9	100	444.8
	Aug 2012	811	13.2	1150.19	16500	71	496.96	1990.0	358.0	100	441.3
	Sep 2012	668	11.2	1151.99	16702	202	499.34	2000.0	288.8	100	432.6
	<b>WY 2012</b>	<b>9264</b>							<b>4047.0</b>		
	Oct 2012	398	6.5	1156.27	17192	490	505.48	1845.0	167.2	91	420.6
	Nov 2012	633	10.6	1155.74	17131	-62	510.63	1700.0	278.2	84	439.3
	Dec 2012	555	9.0	1157.97	17390	260	508.77	1710.0	240.5	84	433.4
	Jan 2013	709	11.5	1158.83	17492	102	508.06	1718.0	314.4	84	443.4
	Feb 2013	715	12.9	1159.81	17607	115	510.45	1265.8	328.9	62	459.9
	Mar 2013	1053	17.1	1156.31	17196	-411	506.64	1656.1	477.0	81	453.0
	Apr 2013	1142	19.2	1153.85	16913	-283	502.59	1779.2	520.0	87	455.5
	May 2013	1031	16.8	1152.86	16800	-113	500.91	1774.6	458.7	87	444.9
	Jun 2013	958	16.1	1153.02	16818	18	499.38	2039.0	418.4	100	436.9
	Jul 2013	949	15.4	1153.72	16899	80	500.30	2039.0	420.8	100	443.4
	Aug 2013	859	14.0	1155.18	17066	167	501.54	2039.0	384.5	100	447.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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
* Sep 2010	833	14.0	638.40	1575	-95	137.24	255.0	102.6	100	123.1
<b>WY 2010</b>	<b>8816</b>							<b>1104.5</b>		
H Oct 2010	766	12.5	633.10	1437	-138	129.52	209.1	92.1	82	120.2
I Nov 2010	631	10.6	638.09	1567	130	137.83	153.0	77.2	60	122.5
S Dec 2010	553	9.0	641.21	1650	84	141.87	168.3	67.8	66	122.6
T Jan 2011	502	8.2	641.95	1670	20	140.42	153.0	63.3	60	125.9
O Feb 2011	586	10.5	643.01	1699	29	139.78	181.1	73.6	71	125.6
R Mar 2011	976	15.9	643.23	1705	6	138.82	204.0	123.0	80	126.0
I Apr 2011	1047	17.6	643.30	1707	2	141.68	227.0	131.6	89	125.7
C May 2011	949	15.4	644.04	1727	20	142.61	255.0	120.3	100	126.8
A Jun 2011	954	16.0	642.27	1679	-48	140.41	249.9	120.6	98	126.4
L Jul 2011	943	15.3	643.11	1702	23	143.18	255.0	119.3	100	126.5
* Aug 2011	822	13.4	642.38	1682	-20	140.95	255.0	103.5	100	125.9
Sep 2011	756	12.7	639.51	1604	-78	133.88	255.0	93.8	100	124.2
<b>WY 2011</b>	<b>9484</b>							<b>1185.9</b>		
Oct 2011	593	9.6	633.00	1434	-170	130.75	193.8	71.8	76	121.0
Nov 2011	502	8.4	635.00	1486	51	128.73	183.6	60.0	72	119.5
Dec 2011	359	5.8	638.71	1583	97	131.89	178.5	44.2	70	123.1
Jan 2012	588	9.6	641.80	1666	83	135.70	170.9	73.3	67	124.7
Feb 2012	704	12.2	641.80	1666	0	137.51	163.2	88.1	64	125.1
Mar 2012	956	15.5	643.05	1700	34	135.78	242.3	119.1	95	124.6
Apr 2012	1110	18.7	643.00	1699	-2	136.07	255.0	137.9	100	124.2
May 2012	951	15.5	643.00	1699	0	136.04	255.0	119.0	100	125.1
Jun 2012	846	14.2	642.00	1671	-27	135.51	255.0	105.8	100	125.1
Jul 2012	879	14.3	641.50	1658	-14	134.73	255.0	109.3	100	124.4
Aug 2012	784	12.7	641.50	1658	0	134.46	255.0	97.7	100	124.7
Sep 2012	744	12.5	638.00	1564	-94	132.62	255.0	91.7	100	123.2
<b>WY 2012</b>	<b>9016</b>							<b>1117.8</b>		
Oct 2012	579	9.4	630.49	1371	-193	127.85	219.3	69.1	86	119.3
Nov 2012	499	8.4	635.00	1486	115	125.53	244.8	59.0	96	118.4
Dec 2012	435	7.1	638.71	1583	97	130.29	229.5	53.4	90	122.6
Jan 2013	600	9.8	641.80	1666	83	134.09	221.9	74.7	87	124.6
Feb 2013	700	12.6	641.80	1666	0	136.08	209.1	87.5	82	125.0
Mar 2013	991	16.1	643.05	1700	34	135.86	239.7	123.3	94	124.4
Apr 2013	1111	18.7	643.00	1699	-2	136.07	255.0	138.1	100	124.2
May 2013	998	16.2	643.00	1699	0	136.04	255.0	124.7	100	124.9
Jun 2013	954	16.0	642.00	1671	-27	135.51	255.0	118.8	100	124.5
Jul 2013	938	15.3	641.50	1658	-14	134.73	255.0	116.4	100	124.1
Aug 2013	831	13.5	641.50	1658	0	134.46	255.0	103.4	100	124.4

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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
*	Sep 2010	583	9.8	446.95	560	-24	80.89	103.2	41.6	86	71.4
	<b>WY 2010</b>	<b>6298</b>							<b>436.8</b>		
H	Oct 2010	465	7.6	449.14	602	42	82.79	90.0	31.4	75	67.4
I	Nov 2010	428	7.2	447.59	572	-30	79.41	91.2	30.4	76	71.1
S	Dec 2010	290	4.7	448.10	582	10	82.60	104.4	19.7	87	67.9
T	Jan 2011	391	6.4	446.40	550	-32	80.10	97.2	26.8	81	68.6
O	Feb 2011	415	7.5	447.29	567	17	76.83	90.0	29.3	75	70.7
R	Mar 2011	694	11.3	448.06	581	15	80.18	112.8	47.4	94	68.4
I	Apr 2011	786	13.2	448.54	590	9	82.13	120.0	54.4	100	69.1
C	May 2011	691	11.2	448.68	593	3	80.58	120.0	47.9	100	69.3
A	Jun 2011	708	11.9	447.73	575	-18	81.68	114.0	49.9	95	70.4
L	Jul 2011	762	12.4	448.22	584	9	81.72	116.4	51.6	97	67.7
*	Aug 2011	669	10.9	448.13	583	-2	82.04	120.0	46.1	100	68.9
	Sep 2011	546	9.2	448.00	580	-2	75.43	120.0	35.8	100	65.5
	<b>WY 2011</b>	<b>6845</b>							<b>470.6</b>		
	Oct 2011	435	7.1	448.00	580	0	76.65	92.4	28.6	77	65.9
	Nov 2011	354	5.9	447.00	561	-19	76.29	90.0	23.0	75	65.1
	Dec 2011	245	4.0	447.00	561	0	77.31	64.8	15.7	54	64.0
	Jan 2012	342	5.6	447.00	561	0	77.64	60.0	22.6	50	66.3
	Feb 2012	464	8.1	447.00	561	0	76.41	79.2	30.8	66	66.4
	Mar 2012	702	11.4	447.00	561	0	75.81	90.0	46.8	75	66.6
	Apr 2012	827	13.9	448.70	593	32	75.23	120.0	54.7	100	66.2
	May 2012	696	11.3	448.70	593	0	76.05	120.0	46.2	100	66.5
	Jun 2012	653	11.0	448.70	593	0	76.05	120.0	43.3	100	66.4
	Jul 2012	719	11.7	448.00	580	-13	75.71	120.0	47.7	100	66.3
	Aug 2012	629	10.2	447.50	571	-10	75.13	120.0	41.2	100	65.6
	Sep 2012	540	9.1	446.81	557	-13	74.55	120.0	35.0	100	64.9
	<b>WY 2012</b>	<b>6604</b>							<b>435.8</b>		
	Oct 2012	452	7.3	446.31	548	-9	74.77	102.0	29.2	85	64.6
	Nov 2012	371	6.2	446.50	552	3	74.62	102.0	23.8	85	64.0
	Dec 2012	295	4.8	446.50	552	0	74.71	102.0	18.6	85	63.1
	Jan 2013	356	5.8	446.50	552	0	74.71	102.0	22.7	85	63.8
	Feb 2013	462	8.3	446.50	552	0	73.92	120.0	29.7	100	64.2
	Mar 2013	708	11.5	446.70	555	4	74.01	120.0	46.0	100	64.9
	Apr 2013	796	13.4	448.70	593	38	75.08	120.0	52.6	100	66.0
	May 2013	703	11.4	448.70	593	0	76.05	120.0	46.8	100	66.5
	Jun 2013	676	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	48.5	100	66.3
	Aug 2013	626	10.2	447.50	571	-10	75.13	120.0	41.0	100	65.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
* Sep 2010	217	42	25	32	19	2
<b>Summer 2010</b>	<b>1755</b>	<b>231</b>	<b>142</b>	<b>186</b>	<b>109</b>	<b>25</b>
H Oct 2010	226	30	24	29	16	0
I Nov 2010	369	24	7	9	4	4
S Dec 2010	382	26	8	9	4	4
T Jan 2011	445	26	8	9	4	4
O Feb 2011	425	26	12	15	4	3
R Mar 2011	453	23	21	26	15	4
<b>Winter 2011</b>	<b>2299</b>	<b>156</b>	<b>79</b>	<b>97</b>	<b>48</b>	<b>19</b>
I Apr 2011	415	65	26	37	21	5
C May 2011	520	105	44	66	23	5
A Jun 2011	634	98	36	61	23	5
L Jul 2011	708					
* Aug 2011	706	60	39	44	22	8
Sep 2011	404	54	36	44	22	3
<b>Summer 2011</b>	<b>3388</b>	<b>382</b>	<b>181</b>	<b>251</b>	<b>111</b>	<b>27</b>
Oct 2011	417	47	25	31	16	7
Nov 2011	522	45	16	19	10	7
Dec 2011	574	46	29	36	18	7
Jan 2012	513	46	26	33	17	6
Feb 2012	391	43	18	23	12	5
Mar 2012	423	46	11	15	8	6
<b>Winter 2012</b>	<b>2839</b>	<b>274</b>	<b>124</b>	<b>157</b>	<b>81</b>	<b>38</b>
Apr 2012	476	45	13	21	12	7
May 2012	488	60	41	61	23	8
Jun 2012	493	97	21	32	22	9
Jul 2012	533	37	36	43	23	10
Aug 2012	518	37	39	46	23	8
Sep 2012	393	35	35	42	21	7
<b>Summer 2012</b>	<b>2901</b>	<b>310</b>	<b>185</b>	<b>245</b>	<b>126</b>	<b>49</b>
Oct 2012	405	37	21	26	14	7
Nov 2012	257	35	12	15	8	6
Dec 2012	342	36	26	33	17	6
Jan 2013	341	36	23	29	15	6
Feb 2013	339	33	16	21	11	5
Mar 2013	254	36	10	14	8	5
<b>Winter 2013</b>	<b>1345</b>	<b>145</b>	<b>83</b>	<b>103</b>	<b>53</b>	<b>25</b>
Apr 2013	359	35	14	21	12	5
May 2013	404	49	31	48	23	7
Jun 2013	432	75	20	31	22	9
Jul 2013	480	36	34	42	23	10
Aug 2013	443	36	38	45	23	8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## September 2011 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	Navajo	Allow	Powell	Mead	Total	Required	Sched Rel	FC Rel
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF	
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Sep 2011	233	69	340	6432	7074	14646	21721	233	69	340	642	6432	14646	21721	2270	695	0	38.9
Oct 2011	304	130	365	6613	7412	14446	21858	304	130	365	799	6613	14446	21858	3040	435	0	38.8
Nov 2011	366	165	369	6844	7744	13970	21713	366	165	369	899	6844	13970	21713	3810	574	0	38.9
Dec 2011	428	181	374	7325	8309	13402	21711	428	181	374	984	7325	13402	21711	4580	478	0	39.0
Jan 2012	499	248	387	7944	9079	12566	21644	499	248	387	1134	7944	12566	21644	5350	697	0	38.9
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Jan 2012	499	248	387	7944	9079	12566	21644	115	242	178	534	7944	12566	21045	5350	697	0	38.9
Feb 2012	576	306	401	8468	9751	12072	21823	191	301	191	682	8468	12072	21223	1500	719	0	38.7
Mar 2012	647	342	404	8814	10208	11844	22052	261	338	194	792	8814	11844	21450	1500	1018	0	38.4
Apr 2012	696	344	365	9108	10512	11842	22354	307	341	148	796	9108	11842	21745	1500	1140	0	38.4
May 2012	695	308	293	9288	10583	11856	22439	300	307	57	663	9288	11856	21807	1500	983	0	39.8
Jun 2012	611	218	293	8179	9300	11685	21032	204	206	25	435	8179	11685	20345	1500	850	0	41.7
Jul 2012	503	27	346	6740	7615	11350	19137	83	-9	30	104	6740	11350	18365	1500	890	0	41.9
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2012	437	33	367	6818	7654	10949	18921	437	33	367	837	6818	10949	18921	1500	811	0	41.5
Sep 2012	467	91	399	7352	8309	10877	19235	467	91	399	957	7352	10877	19235	2270	668	0	41.2
Oct 2012	513	153	412	7671	8750	10675	19474	513	153	412	1079	7671	10675	19474	3040	398	0	41.0
Nov 2012	559	179	416	8014	9169	10185	19403	559	179	416	1155	8014	10185	19403	3810	633	0	41.0
Dec 2012	608	186	418	8061	9273	10246	19568	608	186	418	1212	8061	10246	19568	4580	555	0	40.9
Jan 2013	674	248	427	8324	9673	9987	19709	674	248	427	1349	8324	9987	19709	5350	709	0	40.7
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Jan 2013	674	248	427	8324	9673	9987	19709	390	248	235	873	8324	9987	19233	5350	709	0	40.7
Feb 2013	734	302	439	8605	10080	9885	20014	449	302	246	996	8605	9885	19535	1500	715	0	40.4
Mar 2013	781	332	438	8920	10471	9770	20289	493	332	244	1069	8920	9770	19808	1500	1053	0	40.1
Apr 2013	781	332	392	8962	10468	10181	20697	489	332	192	1013	8962	10181	20205	1500	1142	0	39.9
May 2013	742	308	299	9061	10410	10464	20923	443	308	80	831	9061	10464	20405	1500	1031	0	40.9
Jun 2013	623	217	292	8203	9336	10577	19962	313	217	41	571	8203	10577	19400	1500	958	0	42.4
Jul 2013	445	37	345	6915	7741	10559	18395	120	12	46	177	6915	10559	17745	1500	949	0	42.6
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>										
Aug 2013	344	27	350	6863	7584	10478	18157	344	27	350	721	6863	10478	18157	1500	859	0	42.3

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