

**May 24-Month Study**  
**Date: May 11, 2011**

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

**Current Reservoir Status**

Reservoir	April Inflow (unregulated) (acre-feet)	Percent of Average (%)	May 10 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	92,000	99	6467.30	108,000
Flaming Gorge	159,000	101	6022.69	3,076,000
Blue Mesa	77,000	103	7475.15	471,000
Navajo	115,000	68	6061.42	1,366,000
Powell	980,000	100	3613.04	13,039,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this May 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 May 24-Month Study projects a Lake Powell annual release volume of 12.46 maf; however, the projected annual release will be updated each month throughout the remainder of the water year to reflect changing hydrology in order to achieve the operation specified by the Equalization Tier. Due to recent increases to the inflow forecast for Lake Powell, Equalization may not be fully achieved by the end of the water year. Consistent with Section II(4) of the Long Range Operating Criteria, “[a]ny water thus retained [after September 30] in Lake Powell to avoid bypass of water at the Glen Canyon Powerplant will be released through the Glen Canyon Powerplant as soon as

practicable” to achieve Equalization. The May 24-Month Study projects Equalization to be achieved by the end of the calendar year, with a projected WY 2011 Equalization volume of 0.850 maf carried over to WY 2012.

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/rsrvs/ops/aop/AOP11\\_final.pdf](http://www.usbr.gov/uc/water/rsrvs/ops/aop/AOP11_final.pdf).

The Long-Range Operating Criteria are available for download at <http://www.usbr.gov/lc/region/pao/pdfiles/opcriter.pdf>.

***Fontenelle Reservoir*** – Inflows for the month of April were 92,000 acre-feet, or 99% of average. The reservoir elevation is 6467.5 feet above sea level and 32% of capacity. Current inflows are approximately 1,300 cfs and reservoir releases are 2200 cfs. Releases will likely be increased significantly in May (up to 4,500 cfs or more) as soon as the snow begins to melt and the first of spring runoff begins to fill the reservoir.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the joint water supply forecast for the 2011 spring runoff. The May official forecast for the April to July runoff period is 1190 kaf (138%). Given this forecasted inflow, the reservoir is projected to fill late this summer and sustained releases of approximately 6,500 cfs or more will likely be required for a month to safely route the inflow to the reservoir. Note that these projections are provisional and subject to change as forecasts are updated and actual inflows are realized. Inflows over the next three months are forecasted to be significantly above average: 225,000 acre-ft (115%), 570,000 acre-ft (161%), and 305,000 acre-ft (144%) for May, June, and July respectively. Basin snowpack is currently 168% of the average for this time of year and just started to melt.

The next Fontenelle Working Group meeting is scheduled for August 18, 2011 at 10:00 am at the Joint Powers Water Board water treatment plant boardroom in Green River, Wyoming. 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 April was 159,000 acre-feet (AF), or 101 percent of average inflow. Recent storms over both the Upper Green and Yampa River Basins have significantly increased the potential for high spring flows in 2011. Upper Green River Basin snowpack is currently 175% of the average for this time of year. Yampa River Basin snowpack is currently 174% of the average for this time of year.

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 May official forecast for the April to July runoff period is 1,660 kaf

(139%). The Yampa River Basin May official forecast for the April to July runoff period is 2,720 kaf (201%).

The Yampa river basin contains unprecedented snowpack, with forecasted flows at 197 percent of average. All peak forecasts for the Yampa River at Deerlodge are above flood stage. Likewise, the Upper Green river basin May final forecast increased 310 thousand acre-feet (KAF) or 26 percent over the April final forecast. The projected May-July volume into Flaming Gorge Reservoir is 146 percent of average. Please be advised that the potential for wet conditions currently exist in the Green and Yampa River Basins.

The next Flaming Gorge Working Group meeting is scheduled for August 23, 2011, at 11:00 a.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** – April unregulated inflow into Blue Mesa Reservoir was 77,000 acre-feet or 102 percent of average. On May 11, 2011 the basin snowpack was 145 percent of average. Precipitation during April was 150 percent of average. The current inflow rate into Blue Mesa Reservoir is over 3000 cfs while reservoir releases are averaging about 2300 cfs. Lately the weather pattern has been wetter and colder than average with occasional short-lived warm periods that have resulted in brief episodes of higher flows on the rivers. With the higher than average snowpack and inflow forecast, we have increased reservoir releases in anticipation of making room for the runoff in Blue Mesa Reservoir. The reservoir elevation is currently at 7475.36 feet, which corresponds to a storage content of about 473,000 acre-feet. This elevation is about 16 feet lower than a year ago.

The latest Water Supply Forecast for Water Year 2011 was issued on May 1st and the April through July unregulated inflow is forecasted to be at 945,000 acre-feet (131% of normal). This sets the senior Black Canyon Water Right call for a one day spring peak flow of 6,793 cfs. At this time, Reclamation plans to operate the Aspinall Unit to allow the water right to be met. Under the proposed operation Blue Mesa is projected to fill this runoff season. The projected fill is calculated to be between 7516.4 feet and 7519.4 feet. Any elevation above 7516.00 is considered a fill for the season.

Releases from Crystal are currently working their way up to a full powerplant and bypass release of 4200 cfs. The Gunnison Diversion Tunnel started taking water for the new season on March 21, 2011. The current diversion rate in the tunnel is 1050 cfs, which results in a river flow below the diversion tunnel of approximately 2450 cfs. River flows will increase to around 3200 cfs by the middle of May and should hold steady after that until the spring peak operation begins sometime in late May or early June.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday, August 18, 2011 starting at 1:00 PM at the Elk Creek Visitor Center at Blue Mesa Reservoir. At this meeting, review of this spring's reservoir operations, and plans for this fall and winter 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 have been set at 500 cfs since early fall 2010, with exception of two recent periods, April 15 through 20th, and May 5 through 9th when a temporary increase to 650 cfs was required to meet downstream target base flows. All 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.

Snowpack for the upper San Juan basin now stands at 100 percent of average, while the Animas River basin is 110 percent of average. Precipitation during April was 100 percent of average. Unregulated inflow into Navajo Reservoir during the month of April was 115,000 acre-feet, or 77 percent of average. Currently, the daily reservoir inflow is averaging about 2,500 cfs. The reservoir water surface elevation is currently 6061.42 feet, which corresponds to storage content of about 1,366,000 acre-feet. NIIP started their diversions on March 17th, which are currently set at about 500 cfs.

The latest Water Supply Forecast for Water Year 2011 has been issued and the April through July unregulated inflow is forecasted to be at 545,000 acre-feet (74% of normal), this is a decrease of 5,000 acre-feet from last month's forecast. Given this forecast, there will be a one week spring peak release of 5,000 cfs which results in an end of water year reservoir elevation estimated to be 6059 feet.

A public meeting on Navajo Reservoir operations was held on Wednesday, April 20, 2011 in Farmington, New Mexico. At this meeting, review of this winter's reservoir operations, and plans for this spring and summer operations will be 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 to Lake Powell for April 2011 was 983 kaf (100% of average) which was 117 kaf below the level forecasted for April by the Colorado Basin River Forecast Center (CBRFC) which was 1100 kaf (112%

of average). On April 9, 2011, the elevation of Lake Powell dropped to 3609.7 feet above sea level which will likely be the lowest elevation that will occur during water year 2011. As of May 10, 2011 the elevation had increased to 3613.3 feet above sea level. Inflows are averaging about 21,400 cfs while releases are averaging about 14,800 cfs so the elevation is increasing at over 1 inch per day. It is projected that the elevation of Lake Powell could increase by more than 50 feet from the low point for the water year to a peak elevation of approximately 3660 feet above sea level by late July or early August which would be approximately 40 feet from the full pool elevation of 3700 feet.

### **Current Dam Operations**

The release volume currently scheduled for May is 1195 kaf and this is estimated to be the maximum release capability of the powerplant at Glen Canyon Dam. Releases in May, from May 1 through May 13 will be near steady at approximately 14,400 cfs. On May 14, 2011, generating units 3 and 4 are projected to be returned to service. When this occurs, releases from Glen Canyon Dam will increase to approximately 23,000 cfs which is estimated to be the maximum release rate from the powerplant. Releases will be near steady at this level to the end of the month. The projected release volume for June is 1369 kaf and the release rate will be near steady at approximately 23,000 cfs. Depending on inflow conditions, releases for July and August could also be near powerplant capacity.

In addition to daily operations that may or may not include daily fluctuation patterns for load following power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate somewhat to provide approximately 40 megawatts 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 Glen Canyon Dam (and other Colorado River Storage Project dams) to participate in the electrical generation and transmissions system, Glen Canyon Dam must maintain a level of generation capacity in reserve to assist the local control area to maintain electrical supply when unanticipated generation outages occur within the control area. Glen Canyon is required to maintain 99 megawatts (approximately 2,650 cfs of release) of capacity in reserve for these unanticipated outages. When an electrical outage occurs, Glen Canyon Dam can be called upon to provide up to an additional 99 megawatts of generation above what was originally scheduled for Glen Canyon Dam for a duration of 2 hours or less. Under normal circumstances, calls for reserve generation occur fairly infrequently and are for much less than the required 99 megawatts.

### **Annual Operations-Coordinated Operation of Lake Mead and Lake Powell under Interim Guidelines for Water Year 2011**

In August of 2010, the 24-Month Study was used to project the January 1, 2010 elevations of Lake Powell and Lake Mead. Based on these projected elevations and

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), the operating tier for water year 2011 was selected to be Upper Elevation Balancing. Operation of Glen Canyon Dam under Upper Elevation Balancing can result in an annual release as low as 7.0 maf, when Balancing occurs, or as high as would be required to achieve Equalization which could be as low as 8.23 maf or as high as 13 maf or greater depending on system conditions. The operational outcome of Upper Elevation Balancing is largely dependent on projected and actual system conditions at the end of the water year.

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

Snowpack conditions above Lake Powell have persisted to be above average since late December 2010. The overall snowpack above Lake Powell on May 10, 2011 was 147% of the seasonal average. The snowpack conditions continued to build basin wide throughout April 2011 when typically snowpack normally begins to melt. Temperatures in the Colorado River Basin have remained below average and this has protected the snowpack beyond what was expected. The Water Supply forecast for Lake Powell issued by the CBRFC (April through July Unregulated Inflow Volume) was 9.7 maf (123% of average) at mid April but has been increased significantly for May which is now 11.5 maf (145% of average). The 2011 water year projected unregulated inflow volume was projected in April to be 13.11 maf (109% of average). With the increased forecast for May the 2011 water year projected unregulated inflow volume is now 15.34 maf (127% of average). The last water year where Lake Powell observed that level of unregulated inflow was 1996 when the unregulated inflow volume was 17.05 maf (142% of average) and in the 47 years since the closure of Glen Canyon Dam there have only been 8 years where the unregulated inflow volume was at or above the level projected for this year.

The unregulated inflow forecast for Lake Powell over the next 3 months based on the May final Water Supply forecast is as follows: May-3,000 kaf (130% of average); June-5,200 kaf (169% of average); July-2,300 kaf (148% of average). Incorporating these new forecasts, the most probable Lake Powell unregulated inflow volume projection for water year 2011 is now 15.34 maf (127% of average). This is the median unregulated inflow volume that is forecasted to occur for water year 2011. There is a 50% chance that the unregulated inflow volume will be higher or lower than this volume. A reasonable range of possible inflows is defined by a minimum probable inflow volume and a maximum probable inflow volume. These volumes represent what would be expected to be achieved or exceeded 90% of the time (minimum inflow volume) and 10% of the time (maximum inflow volume). The forecasted water year (2011) minimum probable inflow volume issued for May is 12.4 maf (103% of average). The forecasted water year (2011) maximum probable inflow volume issued for May is 18.1 maf (150% of average). Given this range, there is still a significant amount of uncertainty for how 2011 will play out over the next 5 months.

The May 2011 24-Month Study, with the 2011 most probable inflow condition projects that Equalization will be required under the Interim Guidelines and the projected annual

release volume from this study is projected to be 12.46 maf. This annual release volume is estimated to be the maximum volume that Glen Canyon Powerplant can release given the unit efficiency and unit maintenance outages that are scheduled from now to the end of the water year. As hydrologic conditions change throughout the remaining months of water year 2011, dam operations and the projected annual release volume will be adjusted to achieve as practicably as possible the objectives of the Equalization Tier of the Interim Guidelines.

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

In the Upper Colorado River Basin during water year 2010, the overall precipitation accumulated through September 30, 2010 was approximately 90% of average based on the 30 year average for the period from 1971 through 2000. For Water Year 2011 thus far, the estimated monthly precipitation within the Upper Colorado River Basin (above Lake Powell) as a percentage of average has been: (October - 135%, November - 95%, December - 225%, January - 50%, February - 100%, March - 90%, April - 155%)

The Climate Prediction Center outlook (dated April 21, 2010) for temperature over the next 3 months indicates that temperatures in the Upper Colorado River Basin are expected to be above average while precipitation over the next 3 months is projected to be near average in the northern reaches of the basin while below average in the southern reaches of the basin.

### **Upper Colorado River Basin Drought**

The Upper Colorado River Basin continues to experience a protracted multi-year drought. Since 1999, inflow to Lake Powell has been below average in every year except water years 2005 and 2008. In the summer of 1999, Lake Powell was close to full with reservoir storage at 23.5 million acre-feet, or 97 percent of capacity. During the next 5 years (2000 through 2004) unregulated inflow to Lake Powell was well below average. This resulted in Lake Powell storage decreasing during this period to 8.0 million acre-feet (33 percent of capacity) which occurred on April 8, 2005. During 2005, 2008 and 2009, drought conditions eased somewhat with near or above average inflow conditions and net gains in storage to Lake Powell. 2011 will be another above average inflow year so drought conditions are easing somewhat in the Colorado River Basin. As of May 10, 2011 the storage in Lake Powell was approximately 13.07 million acre-feet (53.7 % of capacity) which is below desired levels. The overall reservoir storage in the Colorado River Basin as of April 18, 2011 is approximately 31.61 million acre-feet (53.2 % 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  
PHONE 801-524-3709

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

:			Obs	apr		Forecast		Outlook		
:	jan	feb	mar	apr	%Avg	may	jun	jul	apr-jul	%Avg
GLDA3:Lake Powell	381	317	594	983	100%:	3000/	5200/	2300/11500/:		145%
GBRW4:Fontenelle	29	26	36	92	99%:	225/	570/	305/ 1190/:		138%
GRNU1:Flaming Gorge	44	36	99	159	101%:	400/	750/	350/ 1660/:		139%
BMDC2:Blue Mesa	23	21	38	77	102%:	270/	435/	165/ 945/:		131%
MPSC2:Morrow Point	23	21	38	84	97%:	305/	470/	175/ 1030/:		131%
CLSC2:Crystal	27	24	43	92	91%:	345/	530/	195/ 1160/:		127%
TPIC2:Taylor Park	4.6	4.0	4.6	7.5	89%:	36/	69/	30/ 143/:		139%
VCRC2:Vallecito	4.8	4.2	7.3	22	106%:	50/	61/	20/ 153/:		75%
NVRN5:Navajo	16.0	17.6	41	115	68%:	200/	196/	34/ 545/:		69%
LEMC2:Lemon	0.76	0.65	1.24	4.3	85%:	15/	17.8/	4.2/ 41/:		71%
MPHC2:McPhee	3.8	3.3	12.0	46	77%:	101/	72/	17/ 235/:		73%
RBSC2:Ridgway	3.9	3.2	4.9	9.5e	95%:	/	/	/ 110/:		108%

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
* May 2010	40	1	49	0	49	6469.44	117
H Jun 2010	251	2	50	1	51	6502.04	314
I Jul 2010	134	3	91	22	113	6504.39	333
S Aug 2010	50	2	68	0	68	6501.76	312
T 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>		
O Oct 2010	31	1	5	55	59	6493.24	250
R Nov 2010	34	1	53	1	54	6490.17	229
I Dec 2010	37	1	55	0	55	6487.27	210
C Jan 2011	29	1	55	0	55	6482.87	183
A Feb 2011	26	1	50	0	50	6478.35	158
L Mar 2011	36	1	58	0	58	6473.74	136
* Apr 2011	92	1	84	15	100	6471.99	128
May 2011	225	1	97	118	215	6473.87	136
Jun 2011	570	2	97	408	506	6485.45	199
Jul 2011	305	2	108	55	163	6505.07	338
Aug 2011	118	2	98	12	110	6505.75	344
Sep 2011	59	2	35	38	73	6503.75	328
<b>WY 2011</b>	<b>1562</b>	<b>15</b>	<b>797</b>	<b>702</b>	<b>1499</b>		
Oct 2011	49	1	75	0	75	6500.12	300
Nov 2011	41	1	73	0	73	6495.73	268
Dec 2011	32	1	75	0	75	6489.26	224
Jan 2012	30	1	75	0	75	6481.99	178
Feb 2012	28	1	70	0	70	6473.58	135
Mar 2012	52	0	75	0	75	6468.00	111
Apr 2012	89	1	83	0	83	6469.40	117
May 2012	176	1	86	0	86	6486.49	205
Jun 2012	307	2	104	106	210	6500.16	300
Jul 2012	185	3	101	40	141	6505.51	342
Aug 2012	82	2	87	0	87	6504.62	335
Sep 2012	48	2	71	0	71	6501.46	310
<b>WY 2012</b>	<b>1121</b>	<b>15</b>	<b>976</b>	<b>147</b>	<b>1123</b>		
Oct 2012	49	1	73	0	73	6498.11	285
Nov 2012	41	1	70	0	70	6494.01	255
Dec 2012	32	1	73	0	73	6487.87	214
Jan 2013	30	1	73	0	73	6480.81	171
Feb 2013	28	1	66	0	66	6473.21	133
Mar 2013	52	0	73	0	73	6468.26	112
Apr 2013	89	1	83	0	83	6469.68	118

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
* May 2010	72	81	8	101	0	101	129	6025.97	3196	537
H Jun 2010	387	187	10	138	0	138	130	6026.97	3234	736
I Jul 2010	151	130	13	96	0	96	131	6027.51	3254	195
S Aug 2010	54	72	12	100	0	100	129	6026.47	3215	135
T 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>
O Oct 2010	32	60	7	77	0	77	126	6024.21	3131	113
R Nov 2010	31	52	4	63	0	63	125	6023.83	3117	107
I Dec 2010	45	64	2	68	0	68	125	6023.67	3111	114
C Jan 2011	44	70	2	68	0	68	125	6023.69	3112	525
A Feb 2011	36	60	2	67	0	67	125	6023.47	3104	489
L Mar 2011	98	120	3	59	0	59	127	6024.99	3160	181
* Apr 2011	159	166	5	172	0	172	127	6024.71	3150	472
May 2011	400	390	8	250	0	250	132	6028.11	3277	250
Jun 2011	750	686	11	283	229	512	138	6032.18	3434	512
Jul 2011	350	208	14	268	0	268	135	6030.35	3363	268
Aug 2011	135	127	13	112	0	112	135	6030.40	3365	112
Sep 2011	70	84	11	109	0	109	134	6029.51	3330	109
<b>WY 2011</b>	<b>2151</b>	<b>2088</b>	<b>81</b>	<b>1596</b>	<b>229</b>	<b>1824</b>				<b>3253</b>
Oct 2011	59	86	7	112	0	112	133	6028.67	3298	112
Nov 2011	50	82	3	109	0	109	131	6027.90	3269	109
Dec 2011	36	79	2	112	0	112	130	6027.01	3235	112
Jan 2012	41	86	2	112	0	112	129	6026.30	3208	112
Feb 2012	46	88	2	105	0	105	128	6025.82	3190	105
Mar 2012	104	127	3	112	0	112	129	6026.13	3202	112
Apr 2012	142	136	5	109	0	109	130	6026.71	3224	109
May 2012	265	175	8	112	0	112	132	6028.11	3277	112
Jun 2012	399	301	11	109	0	109	139	6032.64	3452	109
Jul 2012	218	174	14	155	0	155	139	6032.76	3457	155
Aug 2012	96	101	13	200	0	200	135	6030.00	3349	200
Sep 2012	58	81	11	104	0	104	133	6029.14	3316	104
<b>WY 2012</b>	<b>1515</b>	<b>1517</b>	<b>81</b>	<b>1451</b>	<b>0</b>	<b>1451</b>				<b>1451</b>
Oct 2012	59	83	7	108	0	108	132	6028.34	3285	108
Nov 2012	50	79	3	104	0	104	131	6027.62	3258	104
Dec 2012	36	76	2	108	0	108	130	6026.77	3226	108
Jan 2013	41	83	2	108	0	108	129	6026.11	3201	108
Feb 2013	46	83	2	97	0	97	128	6025.70	3186	97
Mar 2013	104	125	3	108	0	108	129	6026.06	3200	108
Apr 2013	142	136	5	104	0	104	130	6026.76	3226	104

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
* May 2010	22	9	9316.36	80
H Jun 2010	35	18	9325.55	97
I Jul 2010	10	20	9320.19	87
S Aug 2010	10	17	9316.06	80
T Sep 2010	6	14	9311.57	72
<b>WY 2010</b>	<b>121</b>	<b>122</b>		
O Oct 2010	7	6	9312.21	73
R Nov 2010	5	5	9312.27	74
I Dec 2010	5	5	9312.71	74
C Jan 2011	5	5	9312.70	74
A Feb 2011	4	4	9312.51	74
L Mar 2011	5	6	9311.89	73
* Apr 2011	7	8	9311.44	72
May 2011	36	38	9310.20	70
Jun 2011	69	38	9327.51	101
Jul 2011	30	36	9324.42	95
Aug 2011	13	22	9319.67	86
Sep 2011	8	16	9315.16	78
<b>WY 2011</b>	<b>194</b>	<b>188</b>		
Oct 2011	6	10	9312.89	75
Nov 2011	5	6	9312.22	73
Dec 2011	4	6	9311.29	72
Jan 2012	4	6	9310.17	70
Feb 2012	4	6	9308.76	68
Mar 2012	4	6	9307.64	66
Apr 2012	8	8	9307.85	67
May 2012	27	16	9314.75	78
Jun 2012	43	20	9327.20	101
Jul 2012	20	22	9326.39	99
Aug 2012	10	22	9320.04	87
Sep 2012	7	16	9314.92	78
<b>WY 2012</b>	<b>144</b>	<b>144</b>		
Oct 2012	6	10	9312.64	74
Nov 2012	5	6	9311.97	73
Dec 2012	4	6	9311.03	72
Jan 2013	4	6	9309.91	70
Feb 2013	4	6	9308.63	68
Mar 2013	4	6	9307.51	66
Apr 2013	8	8	9307.72	66

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	143	131	1	110	6	116	7492.59	602
H	Jun 2010	205	186	1	51	0	51	7508.76	735
I	Jul 2010	50	60	1	98	0	98	7504.17	696
S	Aug 2010	56	63	1	92	0	92	7500.54	666
T	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>		
O	Oct 2010	29	29	1	85	0	85	7486.20	552
R	Nov 2010	27	27	0	24	0	24	7486.60	555
I	Dec 2010	30	29	0	27	0	27	7486.84	557
C	Jan 2011	23	23	0	27	0	27	7486.34	553
A	Feb 2011	21	21	0	43	0	43	7483.46	532
L	Mar 2011	38	39	0	75	0	75	7478.48	495
*	Apr 2011	77	78	1	95	0	95	7475.97	477
	May 2011	270	272	1	165	0	165	7490.22	583
	Jun 2011	435	404	1	183	0	183	7516.42	803
	Jul 2011	165	171	2	199	0	199	7513.11	773
	Aug 2011	77	86	1	120	0	120	7509.04	738
	Sep 2011	41	49	1	116	0	116	7500.95	669
	<b>WY 2011</b>	<b>1233</b>	<b>1227</b>	<b>9</b>	<b>1158</b>	<b>0</b>	<b>1158</b>		
	Oct 2011	36	39	1	71	0	71	7497.02	637
	Nov 2011	31	32	0	41	0	41	7495.83	627
	Dec 2011	25	27	0	73	0	73	7490.00	581
	Jan 2012	24	26	0	79	0	79	7482.99	528
	Feb 2012	22	24	0	61	0	61	7477.94	491
	Mar 2012	34	36	0	31	0	31	7478.57	496
	Apr 2012	73	73	1	48	0	48	7481.85	520
	May 2012	212	201	1	107	0	107	7493.95	612
	Jun 2012	271	248	1	67	0	67	7515.21	792
	Jul 2012	121	122	2	110	0	110	7516.40	802
	Aug 2012	62	74	1	122	0	122	7510.78	753
	Sep 2012	36	45	1	113	0	113	7502.73	684
	<b>WY 2012</b>	<b>946</b>	<b>947</b>	<b>9</b>	<b>923</b>	<b>0</b>	<b>923</b>		
	Oct 2012	36	39	1	71	0	71	7498.84	652
	Nov 2012	31	32	0	41	0	41	7497.66	642
	Dec 2012	25	27	0	87	0	87	7490.00	581
	Jan 2013	24	26	0	79	0	79	7482.99	528
	Feb 2013	22	24	0	54	0	54	7478.88	498
	Mar 2013	34	36	0	36	0	36	7478.81	497
	Apr 2013	73	73	1	48	0	48	7482.09	521

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	159	116	16	132	129	0	129	7154.46	113
H	Jun 2010	216	51	12	63	64	0	64	7153.15	112
I	Jul 2010	51	98	1	98	96	0	96	7156.02	114
S	Aug 2010	56	92	1	93	93	0	93	7155.63	114
T	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>		
O	Oct 2010	30	85	1	86	82	0	82	7153.88	112
R	Nov 2010	29	24	1	25	26	0	26	7152.79	111
I	Dec 2010	30	27	0	28	27	0	27	7153.98	112
C	Jan 2011	23	27	0	27	27	0	27	7153.70	112
A	Feb 2011	21	43	0	43	44	0	44	7152.08	111
L	Mar 2011	38	75	1	75	73	0	73	7154.37	113
*	Apr 2011	84	95	7	102	104	0	104	7152.20	111
	May 2011	305	165	35	200	199	0	199	7153.73	112
	Jun 2011	470	183	35	218	218	0	218	7153.73	112
	Jul 2011	175	199	10	209	209	0	209	7153.73	112
	Aug 2011	81	120	5	125	125	0	125	7153.73	112
	Sep 2011	44	116	3	119	119	0	119	7153.73	112
	<b>WY 2011</b>	<b>1331</b>	<b>1158</b>	<b>99</b>	<b>1257</b>	<b>1253</b>	<b>0</b>	<b>1253</b>		
	Oct 2011	38	71	3	74	74	0	74	7153.73	112
	Nov 2011	33	41	2	43	43	0	43	7153.73	112
	Dec 2011	27	73	2	75	75	0	75	7153.73	112
	Jan 2012	26	79	2	81	81	0	81	7153.73	112
	Feb 2012	25	61	3	64	64	0	64	7153.73	112
	Mar 2012	38	31	4	35	35	0	35	7153.73	112
	Apr 2012	84	48	11	59	59	0	59	7153.73	112
	May 2012	237	107	25	132	132	0	132	7153.73	112
	Jun 2012	292	67	21	88	88	0	88	7153.73	112
	Jul 2012	127	110	7	117	117	0	117	7153.73	112
	Aug 2012	65	122	4	126	126	0	126	7153.73	112
	Sep 2012	39	113	3	116	116	0	116	7153.73	112
	<b>WY 2012</b>	<b>1033</b>	<b>923</b>	<b>86</b>	<b>1010</b>	<b>1010</b>	<b>0</b>	<b>1010</b>		
	Oct 2012	38	71	3	74	74	0	74	7153.73	112
	Nov 2012	33	41	2	43	43	0	43	7153.73	112
	Dec 2012	27	87	2	89	89	0	89	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

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	179	129	20	148	108	36	148	6752.53	17	60	91
H	Jun 2010	242	64	25	89	89	0	89	6752.91	17	56	39
I	Jul 2010	55	96	4	100	100	0	100	6751.15	16	69	39
S	Aug 2010	61	93	5	98	98	0	98	6749.05	16	68	37
T	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>
O	Oct 2010	34	82	4	86	85	0	85	6750.41	16	51	33
R	Nov 2010	32	26	4	30	30	0	30	6748.60	16	1	29
I	Dec 2010	34	27	4	31	31	0	31	6748.24	16	1	30
C	Jan 2011	27	27	4	31	30	1	31	6749.02	16	1	30
A	Feb 2011	24	44	3	47	24	23	46	6751.55	17	1	47
L	Mar 2011	43	73	5	78	78	0	78	6751.94	17	5	76
*	Apr 2011	92	104	8	112	110	2	112	6752.03	17	38	79
	May 2011	345	199	40	239	135	104	238	6753.04	17	55	183
	Jun 2011	530	218	60	278	130	148	278	6753.04	17	60	218
	Jul 2011	195	209	20	229	134	95	229	6753.04	17	65	164
	Aug 2011	91	125	9	134	134	0	134	6753.04	17	65	69
	Sep 2011	51	119	7	126	126	0	126	6753.04	17	55	71
	<b>WY 2011</b>	<b>1499</b>	<b>1253</b>	<b>167</b>	<b>1420</b>	<b>1046</b>	<b>372</b>	<b>1418</b>			<b>397</b>	<b>1029</b>
	Oct 2011	44	74	6	80	80	0	80	6753.04	17	30	50
	Nov 2011	38	43	5	48	48	0	48	6753.04	17	0	48
	Dec 2011	32	75	5	79	79	0	79	6753.04	17	0	79
	Jan 2012	31	81	5	86	86	0	86	6753.04	17	0	86
	Feb 2012	29	64	4	68	68	0	68	6753.04	17	0	68
	Mar 2012	46	35	7	42	42	0	42	6753.04	17	5	37
	Apr 2012	96	59	12	71	71	0	71	6753.04	17	30	41
	May 2012	272	132	35	167	134	33	167	6753.04	17	55	112
	Jun 2012	330	88	38	127	127	0	127	6753.04	17	60	67
	Jul 2012	144	117	17	134	134	0	134	6753.04	17	65	69
	Aug 2012	74	126	8	134	134	0	134	6753.04	17	65	69
	Sep 2012	45	116	6	122	122	0	122	6753.04	17	55	67
	<b>WY 2012</b>	<b>1183</b>	<b>1010</b>	<b>150</b>	<b>1160</b>	<b>1127</b>	<b>33</b>	<b>1160</b>			<b>365</b>	<b>795</b>
	Oct 2012	44	74	6	80	80	0	80	6753.04	17	30	50
	Nov 2012	38	43	5	48	48	0	48	6753.04	17	0	48
	Dec 2012	32	89	5	94	94	0	94	6753.04	17	0	94
	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

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 2011 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* May 2010	69	20	7660.32	113
H Jun 2010	46	42	7661.51	116
I Jul 2010	12	37	7651.21	90
S Aug 2010	19	33	7645.00	75
T Sep 2010	10	26	7637.70	59
<hr/>				
<b>WY 2010</b>	<b>210</b>	<b>196</b>		
O Oct 2010	12	13	7636.95	58
R Nov 2010	7	2	7639.20	63
I Dec 2010	6	2	7641.20	67
C Jan 2011	5	2	7642.53	70
A Feb 2011	4	2	7643.62	72
L Mar 2011	7	2	7645.67	77
* Apr 2011	22	4	7653.10	95
May 2011	50	32	7659.91	112
Jun 2011	61	47	7664.87	125
Jul 2011	20	42	7656.45	103
Aug 2011	15	38	7646.78	79
Sep 2011	15	30	7640.16	65
<hr/>				
<b>WY 2011</b>	<b>223</b>	<b>215</b>		
Oct 2011	14	16	7639.12	62
Nov 2011	8	2	7642.16	69
Dec 2011	6	2	7644.05	73
Jan 2012	5	2	7645.53	76
Feb 2012	5	2	7646.81	79
Mar 2012	8	3	7648.85	84
Apr 2012	22	3	7656.46	103
May 2012	69	57	7661.08	115
Jun 2012	78	67	7664.83	125
Jul 2012	31	41	7660.67	114
Aug 2012	19	38	7653.30	95
Sep 2012	17	29	7648.33	83
<hr/>				
<b>WY 2012</b>	<b>282</b>	<b>260</b>		
Oct 2012	14	13	7648.55	84
Nov 2012	8	6	7649.53	86
Dec 2012	6	5	7650.10	87
Jan 2013	5	3	7650.94	89
Feb 2013	5	3	7651.72	91
Mar 2013	8	3	7653.65	96
Apr 2013	22	10	7658.11	107

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

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



May 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)
* May 2010	264	35	182	4	26	30	6071.80	1506	126
H Jun 2010	152	27	116	5	40	33	6074.50	1544	118
I Jul 2010	15	2	39	5	47	58	6069.52	1474	72
S Aug 2010	39	2	52	4	35	41	6067.48	1446	69
T 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>
O Oct 2010	24	0	26	2	8	36	6063.49	1393	46
R Nov 2010	17	0	12	1	1	29	6062.08	1374	46
I Dec 2010	23	0	19	1	1	30	6061.11	1362	42
C Jan 2011	16	0	13	1	1	31	6059.58	1342	50
A Feb 2011	18	0	15	1	1	28	6058.41	1328	45
L Mar 2011	41	2	35	2	4	31	6058.28	1326	49
* Apr 2011	115	14	84	2	19	31	6060.75	1357	44
May 2011	200	33	149	4	28	91	6062.81	1384	91
Jun 2011	196	22	160	4	43	77	6065.50	1419	77
Jul 2011	34	2	53	5	46	39	6062.75	1383	39
Aug 2011	28	0	51	4	39	42	6060.13	1349	42
Sep 2011	35	2	47	3	22	33	6059.27	1339	33
<b>WY 2011</b>	<b>747</b>	<b>75</b>	<b>664</b>	<b>28</b>	<b>212</b>	<b>498</b>			<b>605</b>
Oct 2011	40	0	42	2	8	31	6059.43	1341	31
Nov 2011	33	0	26	1	0	30	6059.09	1336	30
Dec 2011	24	0	20	1	0	31	6058.15	1324	31
Jan 2012	22	0	18	1	0	31	6057.11	1311	31
Feb 2012	30	0	27	1	0	28	6057.00	1310	28
Mar 2012	88	1	83	2	4	52	6059.03	1336	52
Apr 2012	174	16	138	3	17	56	6063.99	1399	56
May 2012	279	35	231	4	29	121	6069.73	1477	121
Jun 2012	246	27	208	5	44	182	6068.11	1455	182
Jul 2012	74	4	81	5	47	37	6067.56	1447	37
Aug 2012	43	2	60	4	40	42	6065.68	1422	42
Sep 2012	42	1	53	3	22	36	6065.08	1414	36
<b>WY 2012</b>	<b>1096</b>	<b>85</b>	<b>989</b>	<b>28</b>	<b>210</b>	<b>675</b>			<b>675</b>
Oct 2012	40	0	40	2	8	31	6065.02	1413	31
Nov 2012	33	0	31	1	0	30	6065.00	1413	30
Dec 2012	24	0	22	1	0	31	6064.32	1404	31
Jan 2013	22	0	20	1	0	31	6063.43	1392	31
Feb 2013	30	0	29	1	0	27	6063.48	1393	27
Mar 2013	88	1	83	2	4	31	6066.95	1439	31
Apr 2013	174	16	146	3	17	34	6073.64	1532	34

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	1399	1224	32	601	0	601	3625.96	17785	14405	612
H	Jun 2010	2776	2321	53	601	0	601	3638.82	17994	15864	612
I	Jul 2010	674	706	65	802	0	802	3636.52	18100	15596	824
S	Aug 2010	504	608	64	802	0	802	3634.55	18070	15369	826
T	Sep 2010	277	461	58	480	0	480	3633.66	18095	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>
O	Oct 2010	362	512	41	495	0	495	3634.08	18023	15315	502
R	Nov 2010	438	474	39	810	0	810	3630.31	18075	14888	826
I	Dec 2010	416	446	30	847	0	847	3626.54	18063	14469	865
C	Jan 2011	381	429	9	997	0	997	3620.55	18133	13822	1015
A	Feb 2011	317	377	10	964	0	964	3614.95	18123	13235	984
L	Mar 2011	587	589	16	1033	0	1033	3610.73	18094	12804	1055
*	Apr 2011	981	941	25	940	0	940	3611.93	17949	12926	964
	May 2011	3000	2696	31	1195	0	1195	3624.87	18058	14287	1195
	Jun 2011	5200	4656	54	1369	0	1369	3650.52	18297	17280	1369
	Jul 2011	2300	2305	72	1465	0	1465	3656.14	18354	17991	1465
	Aug 2011	834	908	72	1465	0	1465	3651.54	18307	17409	1465
	Sep 2011	568	704	65	883	0	883	3649.74	18289	17183	883
	<b>WY 2011</b>	<b>15384</b>	<b>15037</b>	<b>463</b>	<b>12463</b>	<b>0</b>	<b>12463</b>				<b>12587</b>
	Oct 2011	514	601	45	912	0	912	3647.07	18263	16854	912
	Nov 2011	523	589	42	1138	0	1138	3642.55	18219	16306	1138
	Dec 2011	414	544	33	800	0	800	3640.31	18198	16039	800
	Jan 2012	384	519	10	800	0	800	3638.01	18176	15770	800
	Feb 2012	398	493	11	800	0	800	3635.48	18153	15475	800
	Mar 2012	628	601	18	800	0	800	3633.73	18137	15274	800
	Apr 2012	950	806	29	800	0	800	3633.54	18135	15253	800
	May 2012	2161	1810	35	950	0	950	3640.12	18196	16017	950
	Jun 2012	2811	2324	57	1100	0	1100	3649.05	18282	17098	1100
	Jul 2012	1346	1285	70	1165	0	1165	3649.42	18286	17144	1165
	Aug 2012	566	771	69	1109	0	1109	3646.35	18256	16766	1109
	Sep 2012	460	599	63	714	0	714	3645.00	18243	16601	714
	<b>WY 2012</b>	<b>11154</b>	<b>10942</b>	<b>483</b>	<b>11088</b>	<b>0</b>	<b>11088</b>				<b>11088</b>
	Oct 2012	514	596	43	738	0	738	3643.58	18229	16429	738
	Nov 2012	523	584	41	800	0	800	3641.59	18210	16192	800
	Dec 2012	414	555	33	900	0	900	3638.63	18182	15842	900
	Jan 2013	384	514	10	900	0	900	3635.48	18153	15475	900
	Feb 2013	398	478	11	800	0	800	3632.78	18128	15167	800
	Mar 2013	628	581	18	600	0	600	3632.48	18125	15132	600
	Apr 2013	950	780	29	800	0	800	3632.08	18122	15087	800

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	601	87	47	961	15.6	28	933	714	1094.30	10987
H	Jun 2010	601	30	55	1007	16.9	27	1006	686	1089.30	10556
I	Jul 2010	802	29	68	941	15.3	33	937	673	1086.97	10357
S	Aug 2010	802	126	72	829	13.5	33	823	673	1086.91	10352
T	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>			
O	Oct 2010	495	80	42	638	10.4	24	607	648	1082.36	9971
R	Nov 2010	810	13	42	800	13.4	18	795	646	1081.94	9936
I	Dec 2010	847	248	37	660	10.7	9	630	670	1086.30	10301
C	Jan 2011	997	75	31	540	8.8	9	526	700	1091.73	10765
A	Feb 2011	964	84	29	635	11.4	9	616	723	1095.78	11117
L	Mar 2011	1033	77	33	1006	16.4	14	1002	726	1096.39	11170
*	Apr 2011	940	141	40	1078	18.1	21	1066	722	1095.76	11115
	May 2011	1195	49	47	1031	16.8	27	1031	731	1097.24	11245
	Jun 2011	1369	23	57	990	16.6	23	990	751	1100.64	11548
	Jul 2011	1465	50	73	887	14.4	25	887	783	1106.12	12046
	Aug 2011	1465	109	79	817	13.3	27	817	823	1112.67	12657
	Sep 2011	883	70	66	639	10.7	19	639	837	1114.92	12871
<b>WY 2011</b>		<b>12463</b>	<b>1017</b>	<b>576</b>	<b>9721</b>		<b>224</b>	<b>9608</b>			
	Oct 2011	912	59	49	476	7.7	23	476	862	1119.06	13269
	Nov 2011	1138	48	50	657	11.0	22	657	890	1123.47	13699
	Dec 2011	800	99	44	547	8.9	17	547	908	1126.22	13973
	Jan 2012	800	76	36	708	11.5	20	708	915	1127.27	14078
	Feb 2012	800	92	33	729	12.7	18	729	922	1128.31	14183
	Mar 2012	800	80	37	1033	16.8	24	1033	909	1126.31	13981
	Apr 2012	800	60	46	1156	19.4	20	1156	887	1122.89	13641
	May 2012	950	49	52	993	16.2	31	993	882	1122.15	13569
	Jun 2012	1100	23	63	860	14.5	26	860	893	1123.80	13731
	Jul 2012	1165	50	80	901	14.7	28	901	905	1125.74	13925
	Aug 2012	1109	109	85	822	13.4	31	822	922	1128.36	14188
	Sep 2012	714	70	71	676	11.4	22	676	923	1128.50	14202
<b>WY 2012</b>		<b>11088</b>	<b>815</b>	<b>646</b>	<b>9556</b>		<b>282</b>	<b>9556</b>			
	Oct 2012	738	59	52	463	7.5	26	463	939	1130.86	14442
	Nov 2012	800	48	52	573	9.6	25	573	951	1132.67	14627
	Dec 2012	900	99	46	558	9.1	21	558	974	1136.07	14979
	Jan 2013	900	76	38	708	11.5	20	708	986	1137.95	15177
	Feb 2013	800	92	35	715	12.9	18	715	994	1139.06	15293
	Mar 2013	600	80	39	1052	17.1	24	1052	967	1135.16	14884
	Apr 2013	800	60	47	1141	19.2	20	1141	946	1131.98	14557

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	961	-19	22	937	0	937	15.2	642.30	1680
H	Jun 2010	1007	-23	25	912	0	912	15.3	643.98	1726
I	Jul 2010	941	-14	26	913	0	913	14.8	643.57	1714
S	Aug 2010	829	-12	23	838	0	838	13.6	641.95	1670
T	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>			
O	Oct 2010	638	6	15	766	0	766	12.5	633.10	1437
R	Nov 2010	800	-29	10	631	0	631	10.6	638.09	1567
I	Dec 2010	660	-15	9	553	0	553	9.0	641.21	1650
C	Jan 2011	540	-7	10	502	0	502	8.2	641.95	1670
A	Feb 2011	635	-10	10	586	0	586	10.5	643.01	1699
L	Mar 2011	1006	-11	13	976	0	976	15.9	643.23	1705
*	Apr 2011	1078	-13	17	1047	0	1047	17.6	643.30	1707
	May 2011	1031	-10	22	1007	0	1007	16.4	643.00	1699
	Jun 2011	990	-6	25	959	0	959	16.1	643.00	1699
	Jul 2011	887	1	25	904	0	904	14.7	641.50	1658
	Aug 2011	817	-5	23	790	0	790	12.8	641.50	1658
	Sep 2011	639	1	18	716	0	716	12.0	638.00	1564
<b>WY 2011</b>		<b>9721</b>	<b>-98</b>	<b>197</b>	<b>9435</b>	<b>0</b>	<b>9435</b>			
	Oct 2011	476	3	15	594	0	594	9.7	633.00	1434
	Nov 2011	657	-10	10	585	0	585	9.8	635.00	1486
	Dec 2011	547	-13	9	427	0	427	6.9	638.71	1583
	Jan 2012	708	-17	10	598	0	598	9.7	641.80	1666
	Feb 2012	729	-6	10	714	0	714	12.4	641.80	1666
	Mar 2012	1033	-15	13	971	0	971	15.8	643.05	1700
	Apr 2012	1156	-15	17	1125	0	1125	18.9	643.00	1699
	May 2012	993	-10	22	961	0	961	15.6	643.00	1699
	Jun 2012	860	-6	25	856	0	856	14.4	642.00	1671
	Jul 2012	901	1	25	890	0	890	14.5	641.50	1658
	Aug 2012	822	-5	23	795	0	795	12.9	641.50	1658
	Sep 2012	676	1	18	752	0	752	12.6	638.00	1564
<b>WY 2012</b>		<b>9556</b>	<b>-91</b>	<b>197</b>	<b>9268</b>	<b>0</b>	<b>9268</b>			
	Oct 2012	463	3	15	581	0	581	9.5	633.00	1434
	Nov 2012	573	-10	10	502	0	502	8.4	635.00	1486
	Dec 2012	558	-13	9	438	0	438	7.1	638.71	1583
	Jan 2013	708	-17	10	599	0	599	9.7	641.80	1666
	Feb 2013	715	-6	10	699	0	699	12.6	641.80	1666
	Mar 2013	1052	-15	13	990	0	990	16.1	643.05	1700
	Apr 2013	1141	-15	17	1111	0	1111	18.7	643.00	1699

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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)
*	May 2010	937	24	13	662	10.8	102	172	448.83	596	114	1.9
H	Jun 2010	912	23	16	650	10.9	91	171	448.64	592	113	1.9
I	Jul 2010	913	17	17	743	12.1	107	50	448.61	592	126	2.1
S	Aug 2010	838	21	17	646	10.5	108	84	448.20	584	101	1.6
T	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>	
O	Oct 2010	766	25	12	465	7.6	102	166	449.14	602	106	1.7
R	Nov 2010	631	38	9	428	7.2	98	159	447.59	572	114	1.9
I	Dec 2010	553	33	7	290	4.7	93	183	448.10	582	147	2.4
C	Jan 2011	502	8	6	391	6.4	52	89	446.40	550	141	2.3
A	Feb 2011	586	15	8	415	7.5	22	135	447.29	567	173	3.1
L	Mar 2011	976	1	9	694	11.3	71	181	448.06	581	198	3.2
*	Apr 2011	1047	19	11	786	13.2	70	180	448.54	590	204	3.4
	May 2011	1007	13	13	731	11.9	82	184	448.50	589	111	1.8
	Jun 2011	959	9	15	683	11.5	82	174	448.50	589	117	2.0
	Jul 2011	904	15	17	737	12.0	85	76	448.00	580	121	2.0
	Aug 2011	790	18	17	631	10.3	85	72	447.50	571	96	1.6
	Sep 2011	716	15	15	532	8.9	82	106	446.81	557	89	1.5
<b>WY 2011</b>		<b>9435</b>	<b>209</b>	<b>140</b>	<b>6783</b>		<b>923</b>	<b>1705</b>			<b>1616</b>	
	Oct 2011	594	20	12	439	7.1	55	109	446.31	548	68	1.1
	Nov 2011	585	26	8	379	6.4	55	159	446.50	552	109	1.8
	Dec 2011	427	21	6	282	4.6	58	95	446.50	552	118	1.9
	Jan 2012	598	15	6	342	5.6	96	165	446.50	552	122	2.0
	Feb 2012	714	6	8	464	8.1	86	156	446.50	552	153	2.7
	Mar 2012	971	22	9	702	11.4	96	174	446.70	555	208	3.4
	Apr 2012	1125	18	11	827	13.9	93	166	448.70	593	200	3.4
	May 2012	961	13	13	696	11.3	96	159	448.70	593	111	1.8
	Jun 2012	856	9	16	653	11.0	93	90	448.70	593	112	1.9
	Jul 2012	890	15	17	719	11.7	96	72	448.00	580	118	1.9
	Aug 2012	795	18	17	629	10.2	96	68	447.50	571	92	1.5
	Sep 2012	752	15	15	540	9.1	69	148	446.81	557	89	1.5
<b>WY 2012</b>		<b>9268</b>	<b>199</b>	<b>139</b>	<b>6670</b>		<b>988</b>	<b>1562</b>			<b>1501</b>	
	Oct 2012	581	20	12	452	7.3	26	113	446.31	548	72	1.2
	Nov 2012	502	26	8	371	6.2	27	111	446.50	552	105	1.8
	Dec 2012	438	21	6	295	4.8	27	125	446.50	552	118	1.9
	Jan 2013	599	15	6	356	5.8	106	141	446.50	552	122	2.0
	Feb 2013	699	6	8	461	8.3	96	135	446.50	552	153	2.8
	Mar 2013	990	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

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
*	May 2010	961	15.6	1094.30	10987	-326	449.26	1371.0	378.0	82	393.4
H	Jun 2010	1007	16.9	1089.30	10556	-431	442.32	1556.0	390.5	94	387.7
I	Jul 2010	941	15.3	1086.97	10357	-198	441.50	1640.0	360.3	100	382.9
S	Aug 2010	829	13.5	1086.91	10352	-5	443.45	1617.0	313.3	100	378.0
T	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>		
O	Oct 2010	638	10.4	1082.36	9971	-121	440.25	1104.0	241.3	68	378.5
R	Nov 2010	800	13.4	1081.94	9936	-35	437.87	1185.0	305.1	74	381.4
I	Dec 2010	660	10.7	1086.30	10301	365	439.05	1388.0	246.5	87	373.5
C	Jan 2011	540	8.8	1091.73	10765	463	446.84	1103.0	200.9	69	372.4
A	Feb 2011	635	11.4	1095.78	11117	353	447.78	1414.0	244.7	88	385.7
L	Mar 2011	1006	16.4	1096.39	11170	54	449.79	1232.0	398.2	75	395.8
*	Apr 2011	1078	18.1	1095.76	11115	-55	449.53	1157.0	430.9	70	399.6
	May 2011	1031	16.8	1097.24	11245	131	444.04	1468.0	412.1	88	399.8
	Jun 2011	990	16.6	1100.64	11548	302	445.30	1668.0	393.4	100	397.5
	Jul 2011	887	14.4	1106.12	12046	498	450.20	1686.0	363.8	100	409.9
	Aug 2011	817	13.3	1112.67	12657	611	456.66	1708.0	336.1	100	411.3
	Sep 2011	639	10.7	1114.92	12871	214	462.18	1712.0	258.1	100	403.7
<b>WY 2011</b>		<b>9721</b>							<b>3831.3</b>		
	Oct 2011	476	7.7	1119.06	13269	398	469.61	1394.0	196.1	81	412.2
	Nov 2011	657	11.0	1123.47	13699	430	477.60	1070.0	279.3	62	425.4
	Dec 2011	547	8.9	1126.22	13973	274	477.20	1416.0	225.3	81	412.2
	Jan 2012	708	11.5	1127.27	14078	106	477.63	1303.0	300.2	74	424.2
	Feb 2012	729	12.7	1128.31	14183	104	476.78	1449.0	311.8	82	427.5
	Mar 2012	1033	16.8	1126.31	13981	-201	475.98	1420.0	442.4	81	428.3
	Apr 2012	1156	19.4	1122.89	13641	-340	472.16	1508.0	499.4	88	432.2
	May 2012	993	16.2	1122.15	13569	-73	468.73	1704.0	411.7	100	414.4
	Jun 2012	860	14.5	1123.80	13731	163	469.51	1700.0	366.0	100	425.6
	Jul 2012	901	14.7	1125.74	13925	194	471.79	1703.0	377.5	100	418.9
	Aug 2012	822	13.4	1128.36	14188	262	474.22	1713.0	349.6	100	425.3
	Sep 2012	676	11.4	1128.50	14202	14	476.74	1714.0	282.1	100	417.7
<b>WY 2012</b>		<b>9556</b>							<b>4041.4</b>		
	Oct 2012	463	7.5	1130.86	14442	240	482.25	1383.5	194.1	81	418.9
	Nov 2012	573	9.6	1132.67	14627	185	488.08	1057.7	246.5	62	430.0
	Dec 2012	558	9.1	1136.07	14979	352	486.70	1382.9	234.4	81	420.0
	Jan 2013	708	11.5	1137.95	15177	197	487.87	1264.6	305.8	74	431.7
	Feb 2013	715	12.9	1139.06	15293	117	487.46	1401.6	311.8	82	436.3
	Mar 2013	1052	17.1	1135.16	14884	-409	485.75	1386.8	460.1	81	437.2
	Apr 2013	1141	19.2	1131.98	14557	-328	481.10	1500.1	500.5	88	438.6

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2010	937	15.2	642.30	1680	-17	140.64	255.0	118.5	100	126.4
H Jun 2010	912	15.3	643.98	1726	46	140.66	255.0	115.5	100	126.6
I Jul 2010	913	14.8	643.57	1714	-11	141.98	242.3	115.3	95	126.4
S Aug 2010	838	13.6	641.95	1670	-44	140.67	255.0	105.9	100	126.4
T 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>		
O Oct 2010	766	12.5	633.10	1437	-138	129.52	209.1	92.1	82	120.2
R Nov 2010	631	10.6	638.09	1567	130	137.83	153.0	77.2	60	122.5
I Dec 2010	553	9.0	641.21	1650	84	141.87	168.3	67.8	66	122.6
C Jan 2011	502	8.2	641.95	1670	20	140.42	153.0	63.3	60	125.9
A Feb 2011	586	10.5	643.01	1699	29	139.78	181.1	73.6	71	125.6
L Mar 2011	976	15.9	643.23	1705	6	138.82	204.0	123.0	80	126.0
* Apr 2011	1047	17.6	643.30	1707	2	141.68	227.0	131.6	89	125.7
May 2011	1007	16.4	643.00	1699	-8	136.19	255.0	125.8	100	125.0
Jun 2011	959	16.1	643.00	1699	0	136.04	255.0	119.8	100	124.9
Jul 2011	904	14.7	641.50	1658	-41	135.25	255.0	112.7	100	124.7
Aug 2011	790	12.8	641.50	1658	0	134.46	255.0	98.4	100	124.6
Sep 2011	716	12.0	638.00	1564	-94	132.62	255.0	88.3	100	123.3
<b>WY 2011</b>	<b>9435</b>							<b>1173.4</b>		
Oct 2011	594	9.7	633.00	1434	-130	128.65	237.2	71.5	93	120.4
Nov 2011	585	9.8	635.00	1486	51	127.14	234.6	69.6	92	118.9
Dec 2011	427	6.9	638.71	1583	97	130.00	239.7	52.4	94	122.6
Jan 2012	598	9.7	641.80	1666	83	134.16	219.3	74.6	86	124.6
Feb 2012	714	12.4	641.80	1666	0	135.05	244.8	89.3	96	125.0
Mar 2012	971	15.8	643.05	1700	34	135.44	255.0	120.9	100	124.5
Apr 2012	1125	18.9	643.00	1699	-2	136.07	255.0	139.7	100	124.2
May 2012	961	15.6	643.00	1699	0	136.04	255.0	120.2	100	125.1
Jun 2012	856	14.4	642.00	1671	-27	135.51	255.0	107.0	100	125.0
Jul 2012	890	14.5	641.50	1658	-14	134.73	255.0	110.7	100	124.3
Aug 2012	795	12.9	641.50	1658	0	134.46	255.0	99.0	100	124.6
Sep 2012	752	12.6	638.00	1564	-94	132.62	255.0	92.6	100	123.1
<b>WY 2012</b>	<b>9268</b>							<b>1147.3</b>		
Oct 2012	581	9.5	633.00	1434	-130	128.65	237.2	70.0	93	120.4
Nov 2012	502	8.4	635.00	1486	51	127.14	234.6	60.0	92	119.5
Dec 2012	438	7.1	638.71	1583	97	130.00	239.7	53.7	94	122.6
Jan 2013	599	9.7	641.80	1666	83	134.16	219.3	74.7	86	124.6
Feb 2013	699	12.6	641.80	1666	0	135.05	244.8	87.4	96	125.0
Mar 2013	990	16.1	643.05	1700	34	135.44	255.0	123.2	100	124.4
Apr 2013	1111	18.7	643.00	1699	-2	136.07	255.0	138.0	100	124.2

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2010	662	10.8	448.83	596	4	81.45	115.2	46.0	96	69.6
H Jun 2010	650	10.9	448.64	592	-4	80.58	120.0	46.4	100	71.3
I Jul 2010	743	12.1	448.61	592	-1	82.51	120.0	50.9	100	68.4
S Aug 2010	646	10.5	448.20	584	-8	81.98	120.0	44.7	100	69.2
T 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>		
O Oct 2010	465	7.6	449.14	602	42	82.79	90.0	31.4	75	67.4
R Nov 2010	428	7.2	447.59	572	-30	79.41	91.2	30.4	76	71.1
I Dec 2010	290	4.7	448.10	582	10	82.60	104.4	19.7	87	67.9
C Jan 2011	391	6.4	446.40	550	-32	80.10	97.2	26.8	81	68.6
A Feb 2011	415	7.5	447.29	567	17	76.83	90.0	29.3	75	70.7
L Mar 2011	694	11.3	448.06	581	15	80.18	112.8	47.4	94	68.4
* Apr 2011	786	13.2	448.54	590	9	82.13	120.0	54.4	100	69.1
May 2011	731	11.9	448.50	589	-1	75.88	120.0	48.6	100	66.4
Jun 2011	683	11.5	448.50	589	0	75.86	120.0	45.3	100	66.3
Jul 2011	737	12.0	448.00	580	-9	75.61	120.0	48.8	100	66.2
Aug 2011	631	10.3	447.50	571	-10	75.13	120.0	41.4	100	65.6
Sep 2011	532	8.9	446.81	557	-13	74.55	120.0	34.5	100	64.8
<b>WY 2011</b>	<b>6783</b>							<b>458.0</b>		
Oct 2011	439	7.1	446.31	548	-9	74.77	102.0	28.3	85	64.5
Nov 2011	379	6.4	446.50	552	3	74.62	102.0	24.3	85	64.1
Dec 2011	282	4.6	446.50	552	0	74.71	102.0	17.7	85	62.9
Jan 2012	342	5.6	446.50	552	0	74.71	102.0	21.7	85	63.7
Feb 2012	464	8.1	446.50	552	0	73.92	120.0	29.8	100	64.1
Mar 2012	702	11.4	446.70	555	4	74.01	120.0	45.6	100	64.9
Apr 2012	827	13.9	448.70	593	38	75.08	120.0	54.6	100	66.1
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>6670</b>							<b>435.5</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	461	8.3	446.50	552	0	73.92	120.0	29.6	100	64.2
Mar 2013	708	11.5	446.70	555	4	74.01	120.0	45.9	100	64.9
Apr 2013	796	13.4	448.70	593	38	75.08	120.0	52.5	100	66.0

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## May 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
* May 2010	267	39	31	45	21	3
H Jun 2010	272	54	15	22	18	4
I Jul 2010	368	38	30	34	20	8
S Aug 2010	366	40	27	33	19	6
T 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>
O Oct 2010	226	30	24	29	16	0
R Nov 2010	369	24	7	9	4	4
I Dec 2010	382	26	8	9	4	4
C Jan 2011	445	26	8	9	4	4
A Feb 2011	425	26	12	15	4	3
L 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>
* Apr 2011	415	65	26	37	21	5
May 2011	490	91	48	72	23	7
Jun 2011	583	104	56	79	22	7
Jul 2011	642	99	62	75	23	9
Aug 2011	642	41	37	45	23	10
Sep 2011	385	40	36	43	22	3
<b>Summer 2011</b>	<b>3156</b>	<b>441</b>	<b>265</b>	<b>350</b>	<b>135</b>	<b>42</b>
Oct 2011	395	41	21	27	14	7
Nov 2011	490	40	12	16	8	7
Dec 2011	342	41	22	27	14	6
Jan 2012	341	41	23	29	15	6
Feb 2012	339	38	17	23	12	5
Mar 2012	338	41	9	13	7	5
<b>Winter 2012</b>	<b>2247</b>	<b>242</b>	<b>105</b>	<b>134</b>	<b>70</b>	<b>36</b>
Apr 2012	337	40	14	21	12	5
May 2012	403	41	31	48	23	6
Jun 2012	474	40	21	32	22	9
Jul 2012	506	57	35	42	23	10
Aug 2012	480	74	38	45	23	8
Sep 2012	308	38	35	42	21	7
<b>Summer 2012</b>	<b>2509</b>	<b>290</b>	<b>173</b>	<b>230</b>	<b>125</b>	<b>45</b>
Oct 2012	318	39	22	27	14	7
Nov 2012	343	38	12	16	8	6
Dec 2012	384	39	26	32	16	6
Jan 2013	382	39	23	29	15	6
Feb 2013	338	35	16	21	11	5
Mar 2013	253	39	10	14	8	5
<b>Winter 2013</b>	<b>1765</b>	<b>192</b>	<b>98</b>	<b>124</b>	<b>64</b>	<b>29</b>
Apr 2013	337	38	14	21	12	5

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

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**



**May 2011 24-Month Study**

Most Probable Inflow\*

**Flood Control Criteria**

**Beginning of Month Conditions**



Date	Flaming Gorge	Blue Mesa	Navajo	Lake Powell	Upper Basin Total	Lake Mead	Total	Flaming Gorge	Blue Mesa	Navajo	Tot or Max Allow	Lake Powell	Lake Mead	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont				
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF				
	<b>**** PREDICTED SPACE ****</b>								<b>**** EFFECTIVE SPACE ****</b>													
May 2011	817	352	339	11396	12904	16262	29167	470	323	155	948	11396	16262	28606	1500	1031	0	33.4				
Jun 2011	681	246	312	10035	11275	16132	27406	320	218	97	635	10035	16132	26802	1500	990	0	37.2				
Jul 2011	462	27	277	7042	7807	15829	23636	82	-34	14	62	7042	15829	22933	1500	887	0	38.4				
											<b>**** CREDITABLE SPACE ****</b>											
Aug 2011	393	56	313	6331	7093	15331	22424	393	56	313	762	6331	15331	22424	1500	817	0	38.3				
Sep 2011	386	92	347	6913	7738	14720	22458	386	92	347	824	6913	14720	22458	2270	639	0	38.0				
Oct 2011	436	160	357	7139	8093	14506	22599	436	160	357	954	7139	14506	22599	3040	476	0	37.9				
Nov 2011	496	192	355	7468	8513	14108	22621	496	192	355	1044	7468	14108	22621	3810	657	0	37.7				
Dec 2011	558	202	360	8016	9135	13678	22814	558	202	360	1119	8016	13678	22814	4580	547	0	37.7				
Jan 2012	635	248	372	8283	9538	13404	22942	635	248	372	1255	8283	13404	22942	5350	708	0	37.5				
											<b>**** EFFECTIVE SPACE ****</b>											
Jan 2012	635	248	372	8283	9538	13404	22942	401	248	281	930	8283	13404	22618	5350	708	0	37.5				
Feb 2012	708	302	385	8552	9946	13299	23245	472	302	294	1067	8552	13299	22918	1500	729	0	37.2				
Mar 2012	769	338	386	8847	10339	13194	23534	531	338	294	1164	8847	13194	23204	1500	1033	0	36.9				
Apr 2012	781	334	360	9048	10523	13396	23919	540	334	263	1136	9048	13396	23580	1500	1156	0	36.6				
May 2012	753	310	297	9069	10429	13736	24164	506	310	180	996	9069	13736	23800	1500	993	0	37.7				
Jun 2012	612	217	219	8305	9353	13808	23162	353	214	70	637	8305	13808	22751	1500	860	0	39.3				
Jul 2012	342	38	241	7224	7846	13646	21491	63	11	44	118	7224	13646	20988	1500	901	0	39.6				
											<b>**** CREDITABLE SPACE ****</b>											
Aug 2012	296	27	249	7178	7750	13452	21202	296	27	249	572	7178	13452	21202	1500	822	0	39.3				
Sep 2012	410	77	274	7556	8317	13189	21507	410	77	274	761	7556	13189	21507	2270	676	0	38.9				
Oct 2012	468	146	282	7721	8617	13175	21792	468	146	282	896	7721	13175	21792	3040	463	0	38.7				
Nov 2012	524	178	283	7893	8877	12935	21812	524	178	283	985	7893	12935	21812	3810	573	0	38.6				
Dec 2012	581	187	283	8130	9182	12750	21931	581	187	283	1051	8130	12750	21931	4580	558	0	38.6				
Jan 2013	653	248	292	8480	9674	12398	22072	653	248	292	1194	8480	12398	22072	5350	708	0	38.4				
											<b>**** EFFECTIVE SPACE ****</b>											
Jan 2013	653	248	292	8480	9674	12398	22072	479	248	235	962	8480	12398	21840	5350	708	0	38.4				
Feb 2013	721	301	304	8847	10174	12200	22374	546	301	246	1093	8847	12200	22140	1500	715	0	38.1				
Mar 2013	775	332	303	9155	10565	12084	22649	597	332	244	1173	9155	12084	22411	1500	1052	0	37.7				
Apr 2013	783	332	257	9190	10562	12493	23055	601	332	192	1125	9190	12493	22808	1500	1141	0	37.5				

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