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

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

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.


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
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

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

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<th>feb</th>
<th>mar</th>
<th>apr</th>
<th>%Avg</th>
<th>may</th>
<th>jun</th>
<th>jul</th>
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<td>GLDA3: Lake Powell</td>
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<td>317</td>
<td>594</td>
<td>983</td>
<td>100%</td>
<td>3000/</td>
<td>5200/</td>
<td>2300/</td>
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<td>GBRW4: Fontenelle</td>
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<td>36</td>
<td>92</td>
<td>99%</td>
<td>225/</td>
<td>570/</td>
<td>305/</td>
<td>1190/</td>
<td>138%</td>
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<td>99</td>
<td>159</td>
<td>101%</td>
<td>400/</td>
<td>750/</td>
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<td>38</td>
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<td>435/</td>
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<td>305/</td>
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<td>175/</td>
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<td>92</td>
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<td>345/</td>
<td>530/</td>
<td>195/</td>
<td>1160/</td>
<td>127%</td>
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<td>4.6</td>
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<td>36/</td>
<td>69/</td>
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<td>143/</td>
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<tr>
<td>VCRC2: Vallecito</td>
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<td>106%</td>
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<td>15/</td>
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<td>4.2/</td>
<td>41/</td>
<td>71%</td>
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<td>12.0</td>
<td>46</td>
<td>77%</td>
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<td>17/</td>
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<td>RBSC2: Ridgway</td>
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<td>4.9</td>
<td>9.5e</td>
<td>95%</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>110/</td>
<td>108%</td>
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<td>Date</td>
<td>Regulated Inflow (1000 Ac-Ft)</td>
<td>Evap Losses (1000 Ac-Ft)</td>
<td>Power Release (1000 Ac-Ft)</td>
<td>Bypass Release (1000 Ac-Ft)</td>
<td>Total Release (1000 Ac-Ft)</td>
<td>Reservoir Elev End of Month (Ft)</td>
<td>Live Storage (1000 Ac-Ft)</td>
<td></td>
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<tr>
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<tr>
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<tr>
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<td><strong>530</strong></td>
<td><strong>233</strong></td>
<td><strong>763</strong></td>
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<tr>
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<td>59</td>
<td>6493.24</td>
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<td>1</td>
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<td>1</td>
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<td>183</td>
<td></td>
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</tr>
<tr>
<td>A Feb 2011</td>
<td>26</td>
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<td>50</td>
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<tr>
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<td>* Apr 2011</td>
<td>92</td>
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* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast
### Flaming Gorge Reservoir

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**Most Probable Inflow**

**May 2011 24-Month Study**

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

Model Run ID: 2098
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Taylor Park Reservoir

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* 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**

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

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

## Most Probable Inflow*

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* Jun 2010  46  42  7661.51  116
* Jul 2010  12  37  7651.21  90
- Aug 2010  19  33  7645.00  75
T Sep 2010  10  26  7637.70  59

**WY 2010** 210 196
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

**WY 2011** 223 215
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  7645.33  76
Feb 2012  5  2  7646.81  79
Mar 2012  8  3  7648.85  84
Apr 2012  22  3  7656.46  103
May 2012  14  16  7659.91  112
Jun 2012  78  20  7656.45  103
Jul 2012  31  41  7660.67  114
Aug 2012  19  38  7653.30  95
Sep 2012  17  29  7648.33  84

**WY 2012** 282 260
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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

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**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**Vallecito Reservoir**

**May 2011 24-Month Study**

**Reservoir Elev**

**End of Month (Ft)**

**Live Storage (1000 Ac-Ft)**

**Total Release (1000 Ac-Ft)**

**Regulated Inflow (1000 Ac-Ft)**

---

* Model Run ID: 2098
**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**May 2011 24-Month Study**

Most Probable Inflow*  
Navajo Reservoir

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**Lake Powell**

**May 2011 24-Month Study**

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**Reservoir Elev End of Month (Ft)**

**Bank Storage (1000 Ac-Ft)**

**EOM Storage (1000 Ac-Ft)**

**Lees Ferry Release (1000 Ac-Ft)**

**Power Plant Release (1000 Ac-Ft)**

**Bypass Release (1000 Ac-Ft)**

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

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**Model Run ID: 2098**

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**Operation Plan for Colorado River System Reservoirs**

**May 2011 24-Month Study**

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**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

May 2011 24-Month Study

Davis Dam - Lake Mohave

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* 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**

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

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*COOPERATING AGENCIES*

MODEL RUN ID: 2098

## Operation Plan for Colorado River System Reservoirs

### May 2011 24-Month Study

**Hoover Dam - Lake Mead**

### Table: Reservoir Elev, End of Month (Ft), Gross Energy (MKWH), and Percent of Units Available

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### Summary for WY 2010

- Total Storage: EOM 3588.7
- Percent of Units Available: 99.8%

### Summary for WY 2011

- Total Storage: EOM 3831.3
- Percent of Units Available: 99.8%
**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**

**May 2011 24-Month Study**

**Davis Dam - Lake Mohave**

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

**Model Run ID: 2098**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

## May 2011 24-Month Study

### Parker Dam - Lake Havasu

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**2010**

- **WY 6298**
  - Oct 2010: 645, 7.6, 449.14, 602, 42, 82.79, 90.0, 31.4, 75, 67.4
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  - Dec 2010: 290, 4.7, 448.10, 582, 10, 82.60, 104.4, 19.7, 87, 67.9
  - Jan 2011: 391, 6.4, 446.40, 550, -32, 80.10, 97.2, 26.8, 81, 68.6
  - Feb 2011: 415, 7.5, 447.29, 567, 17, 76.83, 90.0, 29.3, 75, 70.7
  - 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

- **WY 6783**
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  - 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, 122.0, 29.8, 100, 64.1
  - Mar 2012: 702, 11.4, 446.70, 555, 4, 74.01, 122.0, 45.6, 100, 64.9
  - Apr 2012: 827, 13.9, 447.80, 593, 38, 75.08, 122.0, 54.6, 100, 66.1
  - May 2012: 696, 11.3, 447.80, 593, 0, 76.05, 122.0, 46.2, 100, 66.5
  - Jun 2012: 653, 11.0, 447.80, 593, 0, 76.05, 122.0, 43.3, 100, 66.4
  - Jul 2012: 719, 11.7, 448.00, 580, -13, 75.71, 122.0, 47.7, 100, 66.3
  - Aug 2012: 629, 10.2, 447.50, 571, -10, 75.13, 122.0, 41.2, 100, 65.6
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- **WY 6670**
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  - 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, 122.0, 29.6, 100, 64.2
  - Mar 2013: 708, 11.5, 446.70, 555, 4, 74.01, 122.0, 45.9, 100, 64.9
  - Apr 2013: 796, 13.4, 448.70, 593, 38, 75.08, 122.0, 52.5, 100, 66.0

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

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**Model Run ID: 2098**

# Operation Plan for Colorado River System Reservoirs

**May 2011 24-Month Study**

**Most Probable Inflow**

## Upper Basin Power

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* 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**

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

*Model Run ID: 2098*  