**December 24-Month Study**
**Date: December 7, 2011**

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

**Current Reservoir Status**

| Reservoir | November Inflow (unregulated) (acre-feet) | Percent of Average (%) | December 6 Midnight Elevation (feet) | Reservoir Storage (acre-feet) |
|---|---|---|---|---|
| Fontenelle | 46,000 | 106 | 6491.74 | 240,000 |
| Flaming Gorge | 64,000 | 114 | 6032.07 | 3,430,000 |
| Blue Mesa | 29,000 | 92 | 7495.45 | 624,000 |
| Navajo | 30,000 | 86 | 6058.18 | 1,325,000 |
| Powell | 570,000 | 105 | 3644.56 | 16,548,000 |

**Expected Operations**

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

Consistent with Section 6.A of the Interim Guidelines, the Lake Powell operational tier for water year 2012 is the Equalization Tier. The December 2011 24-Month Study projects the water year release volume from Lake Powell for 2012 to be 11.91 maf.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar years 2011 and 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/lc/region/g4000/aop/AOP11.pdf.

The draft 2012 AOP is available for download at http://www.usbr.gov/lc/region/g4000/AOP2012/AOP12_ProposedFinal.pdf.

***Fontenelle Reservoir*** – Inflows for the month of November were 46 kaf, or 107% of average. The reservoir elevation is 6492 feet above sea level and 69% of capacity. Current inflows are approximately 600 cfs and reservoir releases are 1,200 cfs. Releases will likely be close to 1,200 cfs through the remainder of the winter and the reservoir elevation will continue to decline until spring runoff begins.

The Colorado Basin River Forecast Center has issued the water year 2012 (October 2011 to September 2012) forecast. At this early point, inflows over the next year are expected to be 1,140 kaf, or 92% of average. Inflows over the next three months are forecasted to be above average: 40,000 acre-ft (121%) 35,000 acre-ft (113%) for November, 34,000 acre-ft (117%) for December, January, and February respectively.

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

***Flaming Gorge Reservoir*** – Unregulated inflow into Flaming Gorge Reservoir during the month of November was 64,000 acre-feet (AF), or 114 percent of average inflow. The Flaming Gorge Reservoir is releasing at an average daily release rate of 1,500 cfs/day and will begin increasing at a rate of 50 cfs/day on December 15, 2011 to reach 2,400 cfs/day on January 1, 2011. Releases are expected to remain at 2,400 cfs/day through spring. Flaming Gorge reservoir elevation is decreasing and expected to continue decreasing through the winter to meet the May 1 target elevation of 6027 feet.

The Colorado Basin River Forecast Center and Natural Resources Conservation Service have issued the joint water supply forecast for the next three months. The December forecast for December and January is 50 kaf (126 percent of average) and 45 kaf (100 percent of average), respectively.

The next Flaming Gorge Working Group meeting is scheduled for April 18, 2012, at 1:00 p.m. at the Western Park Convention Center, 302 East 200 South, Vernal, Utah. The Flaming Gorge Working Group is an open public forum for information exchange between Reclamation and the stake holders of Flaming Gorge Dam. The public is encouraged to attend and comment on the operations and plans presented by Reclamation at these meetings. For more information on this group and these meetings please contact Heather Hermansen at 801-524-3883 or Ed Vidmar at 801-379-1182.

***Aspinall Reservoirs*** – November unregulated inflow into Blue Mesa Reservoir was 29,000 acre-feet or 92 percent of average. Precipitation during November was observed to be about 115 percent of average. The current inflow rate into Blue Mesa Reservoir is about 350 cfs while reservoir releases are averaging about 1500 cfs. Blue Mesa's present elevation is 7495.45 feet, which corresponds to a storage content of about 624,000 acre-

feet. The unregulated reservoir inflow into Blue Mesa Reservoir during water year 2011 was 1,162,000 acre-feet, or about 123 percent of average.

Releases from Crystal Dam are steady at about 1,500 cfs. This release rate is expected to stay at this level for the couple of months. The Gunnison Diversion Tunnel was shut down for the season on October 31st, with exception of some small 50 to 80 cfs diversions taken bi-weekly for municipal water needs in Montrose, Colorado. River flows below the tunnel are essentially the same as releases from the Dam, with the exception of when the tunnel is taking water to refill Fairfield Reservoir for Montrose municipal water needs.

On December 1, 2011, the National Weather Service's River Forecasting Center issued its forecasted inflow into Blue Mesa for the next 3 months. The unregulated inflow forecast for December, January, and February is for 83,000 acre-feet, which is 117% of average for these months.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday January 19th in the Montrose, Colorado, starting at 1:00 PM. At this meeting, review of last summer and fall reservoir operations, and plans for this winter and next spring 2012 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*** - Reclamation increased the release from Navajo Reservoir to 500 cubic feet per second (cfs) on December 1, 2011 at approximately 4 am. The New Mexico Department of Game & Fish has finished the November work on the trout habitat improvements below the dam.

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.

Precipitation for the month of November in the San Juan River basin was about 75 percent of average. Unregulated inflow into Navajo Reservoir during the month of November was 30,000 acre-feet, or 88 percent of average. Currently, the daily reservoir inflow is averaging about 300 cfs. Diversions for NIIP have been shut down for the season. The reservoir water surface elevation is at 6058.18 feet, which corresponds to a storage content of about 1,324,000 acre-feet.

The unregulated reservoir inflow into Navajo Reservoir during water year 2011 was recorded at 646,000 acre-feet, or about 64 percent of average. The reservoir had a seasonal peak elevation of 6068.67 feet on July 1, 2011. This year's spring peak operations happened over June 8th through June 14th when releases of 5,000 cfs were

made. Release flows started to decrease on June 15th and reached 500 cfs on Friday, June 17th.

The next public meeting on Navajo Reservoir operations will be held on Tuesday, January 24, 2012 at 1:00 p.m. in Farmington, New Mexico. At this meeting, review of last summer and fall reservoir operations, and plans for this winter and spring 2012 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*** – During November 2011the unregulated inflow volume to Lake Powell was 570 kaf (108% of average). This was very close to the forecast volume issued by the Colorado Basin River Forecast Center on November 1, 2011. The forecast volume was 600 kaf (110% of average). Releases from Glen Canyon Dam during November were 1099 kaf and the elevation of Lake Powell decreased by 4.59 ending November at an elevation of 3645.69 feet above sea level. Releases from Glen Canyon Dam are currently averaging approximately 20,300 cfs and are near steady. This release rate is likely to continue to near the end of December and then will likely be reduced to a daily average release of approximately 16,300 cfs with daily fluctuations for power generation.

**Current Dam Operations**

Releases from Glen Canyon Dam for the Steady Flow Experiment (see Experimental Releases from Glen Canyon Dam, Arizona 2008 through 2012, Final Environmental Assessment and Finding of No Significant Impact) ended at midnight on October 31, 2011. The steady flow target for 2011 was 15,500 cfs which was the maximum sustainable release rate from Glen Canyon Dam during September and October. Since then, releases from Glen Canyon Dam have been maximized at powerplant capacity which varies depending on unit efficiency and availability. Current releases are approximately 20,300 cfs.

Since March 2011, releases from Glen Canyon Dam have been maximized through the powerplant in order to achieve the Equalization objectives of the Interim Guidelines. The Equalization objective for water year 2011 was to release sufficient volume from Glen Canyon Dam during the water year such that the elevation of Lake Powell would be 3643 feet above sea level on September 30, 2011.

Inflows to Lake Powell during the spring and summer of 2011 were well above average and the 7 months of maximum powerplant capacity releases from Glen Canyon Dam were not sufficient to achieve an elevation of 3643 feet on September 30, 2011. The elevation of Lake Powell on September 30, 2011 was 3653.01 feet above sea level and this translates to a volume of 1.233 maf that was in storage in Lake Powell on September

30, 2011 that would have otherwise been released for Equalization during water year 2011 if the powerplant had the capacity to make these higher releases.

Releases through the powerplant during the first 3 months of water year 2012 (October, November and December, 2011) have continued at powerplant capacity in order to make up for the Equalization releases that were not made in water year 2011 due to the limitations of the powerplant. It is currently projected that the additional release volume will be completed by the end of December 2011 at which time releases from Glen Canyon Dam will be reduced. It is estimated that this release reduction will likely occur on or about December 28, 2011.

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

Spinning and non-spinning reserve generation may also be maintained at Glen Canyon Dam. In order for Colorado River Storage Project (CRSP) powerplants to participate in the electrical generation and transmissions system, these powerplants must maintain a level of generation capacity available in reserve to assist the local control area for when unanticipated generation outages occur. The current CRSP powerplant reserve requirement is 109 MW (equivalent to approximately 2,675 cfs of release from Glen Canyon Dam). When an electrical outage occurs within the control area, CRSP powerplants can be called upon to provide up to 109 MW of additional generation for up to 2 hours. Under normal circumstances, calls for reserves are infrequent and for much less than the required 109 MW. Because Glen Canyon Powerplant is the largest facility of the CRSP powerplants, typically most of the CRSP reserve requirement is maintained at Glen Canyon Dam but at times this reserve requirement is maintained at other plants within the CRSP system.

**Current Inflow Forecasts and Model Projections**

Over the next three months (December, January and February) the forecasted unregulated inflow to Lake Powell is projected to be above average with monthly percent of average forecasts of 115%, 111% and 107%, respectively. Base on these updated forecast values and the Hydrologic Outlook for water year 2012 (provided in October, 2011) the current projection for the most probable unregulated inflow volume to Lake Powell for water year 2012 is 11.4 maf (95% of average). At this time of year, there is a high level of uncertainty associated with this projection. Based on this projection, the December 2011 24-Month Study projects the water year 2012 most probable release volume will be 11.9 maf under the Equalization Tier of the Interim Guidelines. The December 2011 24-Month Study also projects the elevation condition for Lake Powell and Lake Mead at the end of water year 2012 to be 3645.0 feet and 1139.4 feet, respectively.

**Upper Colorado River Basin Hydrology**

Since water year 2005, hydrologic conditions in the Upper Colorado River Basin have been slightly below average with significant variability from year to year. The unregulated inflow to Lake Powell, which is a good measure of the hydrologic condition in the Colorado River Basin, has averaged 11.15 maf per year during the period from 2005 through 2011. This is slightly below the official average of 12.04 maf per year. The hydrologic variability during this period has been from a low water year unregulated inflow of 8.40 maf (70% of average) in water year 2006 to a high of over 16.77 maf (139% of average) which occurred in water year 2011.

Overall reservoir storage in the Colorado River Basin has increased by nearly 10 maf since the beginning of water year 2005 and this is a significant improvement over the drought conditions during water years 2000 through 2004. On October 1, 2004, the beginning of water year 2005, the total reservoir storage in the Colorado River Basin was 29.84 maf (50.2% of capacity). As of December 6, 2011, the total reservoir storage in the Colorado River Basin was 38.41 maf (64.6% of capacity).

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

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

| : | Obs | | | nov | Forecast | | |
|---|---|---|---|---|---|---|---|
| : | aug | sep | oct | nov | %Avg | dec | jan | feb |
| GLDA3:Lake Powell | 859 | 532 | 575 | 570 | 105%: | 500/ | 450/ | 450/ |
| GBRW4:Fontenelle | 118 | 49 | 50 | 46 | 107%: | 40/ | 35/ | 34/ |
| GRNU1:Flaming Gorge | 144 | 58 | 74 | 64 | 114%: | 50/ | 45/ | 45/ |
| BMDC2:Blue Mesa | 67 | 35 | 36 | 29 | 94%: | 30/ | 28/ | 25/ |
| MPSC2:Morrow Point | 68 | 36 | 37 | 30 | 88%: | 32/ | 30/ | 27/ |
| CLSC2:Crystal | 75 | 39 | 41 | 34 | 85%: | 36/ | 34/ | 30/ |
| TPIC2:Taylor Park | 11.6 | 7.2 | 7.3 | 5.2 | 106%: | 6/ | 5.3/ | 4.7/ |
| VCRC2:Vallecito | 9.6 | 7.6 | 14.8 | 8.6 | 101%: | 5.2/ | 4.2/ | 3.8/ |
| NVRN5:Navajo | 3.2 | 15.0 | 54 | 30 | 86%: | 20/ | 20/ | 26/ |
| LEMC2:Lemon | 2.1 | 1.76 | 2.8 | 1.49 | 88%: | 0.95/ | 0.75/ | 0.65/ |
| MPHC2:McPhee | 14.9 | 11.0 | 8.0 | 4.8e | 72%: | 4/ | 3.7/ | 4.4/ |

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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) |
|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 37 | 1 | 55 | 0 | 55 | 6487.27 | 210 |
| H | Jan 2011 | 29 | 1 | 55 | 0 | 55 | 6482.87 | 183 |
| I | Feb 2011 | 26 | 1 | 50 | 0 | 50 | 6478.35 | 158 |
| S | Mar 2011 | 36 | 1 | 58 | 0 | 58 | 6473.74 | 136 |
| T | Apr 2011 | 92 | 1 | 84 | 15 | 100 | 6471.99 | 128 |
| O | May 2011 | 161 | 1 | 89 | 79 | 168 | 6470.20 | 120 |
| R | Jun 2011 | 429 | 1 | 87 | 283 | 370 | 6481.96 | 178 |
| I | Jul 2011 | 539 | 2 | 110 | 313 | 424 | 6498.87 | 290 |
| C | Aug 2011 | 118 | 2 | 88 | 1 | 89 | 6502.38 | 317 |
| A | Sep 2011 | 49 | 2 | 66 | 0 | 66 | 6499.90 | 298 |
| | **WY 2011** | **1581** | **14** | **801** | **747** | **1549** | | |
| L | Oct 2011 | 50 | 1 | 56 | 18 | 74 | 6496.55 | 273 |
| * | Nov 2011 | 46 | 1 | 22 | 49 | 71 | 6492.84 | 247 |
| | Dec 2011 | 40 | 1 | 74 | 0 | 74 | 6487.64 | 213 |
| | Jan 2012 | 35 | 1 | 74 | 0 | 74 | 6481.17 | 173 |
| | Feb 2012 | 34 | 1 | 69 | 0 | 69 | 6474.20 | 138 |
| | Mar 2012 | 52 | 0 | 74 | 0 | 74 | 6469.17 | 116 |
| | Apr 2012 | 86 | 1 | 77 | 0 | 77 | 6471.06 | 124 |
| | May 2012 | 180 | 1 | 99 | 18 | 117 | 6483.29 | 186 |
| | Jun 2012 | 315 | 2 | 103 | 99 | 202 | 6499.61 | 296 |
| | Jul 2012 | 168 | 3 | 101 | 19 | 120 | 6505.46 | 341 |
| | Aug 2012 | 75 | 2 | 86 | 0 | 86 | 6503.78 | 328 |
| | Sep 2012 | 54 | 2 | 71 | 0 | 71 | 6501.33 | 309 |
| | **WY 2012** | **1135** | **15** | **906** | **203** | **1109** | | |
| | Oct 2012 | 52 | 1 | 73 | 0 | 73 | 6498.35 | 287 |
| | Nov 2012 | 43 | 1 | 71 | 0 | 71 | 6494.35 | 258 |
| | Dec 2012 | 32 | 1 | 73 | 0 | 73 | 6488.09 | 216 |
| | Jan 2013 | 30 | 1 | 73 | 0 | 73 | 6480.91 | 172 |
| | Feb 2013 | 28 | 1 | 66 | 0 | 66 | 6473.15 | 133 |
| | Mar 2013 | 52 | 0 | 73 | 0 | 73 | 6467.97 | 111 |
| | Apr 2013 | 89 | 1 | 83 | 0 | 83 | 6469.29 | 116 |
| | May 2013 | 176 | 1 | 99 | 6 | 105 | 6483.44 | 186 |
| | Jun 2013 | 307 | 2 | 103 | 90 | 193 | 6499.88 | 298 |
| | Jul 2013 | 185 | 3 | 101 | 38 | 138 | 6505.57 | 342 |
| | Aug 2013 | 82 | 2 | 86 | 0 | 86 | 6504.80 | 336 |
| | Sep 2013 | 48 | 2 | 71 | 0 | 71 | 6501.63 | 311 |
| | **WY 2013** | **1126** | **15** | **975** | **134** | **1108** | | |
| | Oct 2013 | 49 | 1 | 74 | 0 | 74 | 6498.12 | 285 |
| | Nov 2013 | 41 | 1 | 71 | 0 | 71 | 6493.84 | 254 |

* 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

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Managing Water in the West

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 45 | 64 | 2 | 68 | 0 | 68 | 125 | 6023.67 | 3111 | 114 |
| H | Jan 2011 | 44 | 70 | 2 | 68 | 0 | 68 | 125 | 6023.69 | 3112 | 525 |
| I | Feb 2011 | 36 | 60 | 2 | 67 | 0 | 67 | 125 | 6023.47 | 3104 | 489 |
| S | Mar 2011 | 98 | 120 | 3 | 59 | 0 | 59 | 127 | 6024.99 | 3160 | 181 |
| T | Apr 2011 | 159 | 166 | 5 | 172 | 0 | 172 | 127 | 6024.71 | 3150 | 472 |
| O | May 2011 | 327 | 334 | 8 | 279 | 47 | 326 | 127 | 6024.73 | 3150 | 1108 |
| R | Jun 2011 | 667 | 608 | 10 | 254 | 173 | 427 | 133 | 6029.11 | 3315 | 1570 |
| I | Jul 2011 | 771 | 656 | 14 | 263 | 94 | 357 | 144 | 6036.07 | 3590 | 908 |
| C | Aug 2011 | 144 | 115 | 13 | 148 | 0 | 148 | 142 | 6034.95 | 3544 | 243 |
| A | Sep 2011 | 58 | 76 | 11 | 144 | 0 | 144 | 139 | 6033.03 | 3467 | 200 |
| | **WY 2011** | **2414** | **2381** | **80** | **1661** | **314** | **1975** | | | | **6029** |
| L | Oct 2011 | 74 | 97 | 7 | 120 | 0 | 121 | 138 | 6032.27 | 3437 | 187 |
| * | Nov 2011 | 64 | 89 | 4 | 88 | 0 | 88 | 138 | 6032.21 | 3435 | 145 |
| | Dec 2011 | 50 | 84 | 2 | 107 | 0 | 107 | 137 | 6031.59 | 3411 | 107 |
| | Jan 2012 | 45 | 84 | 2 | 148 | 0 | 148 | 135 | 6029.96 | 3348 | 148 |
| | Feb 2012 | 45 | 80 | 2 | 138 | 0 | 138 | 132 | 6028.45 | 3290 | 138 |
| | Mar 2012 | 75 | 97 | 3 | 148 | 0 | 148 | 130 | 6027.09 | 3238 | 148 |
| | Apr 2012 | 117 | 108 | 5 | 113 | 0 | 113 | 130 | 6026.84 | 3229 | 113 |
| | May 2012 | 240 | 177 | 8 | 168 | 0 | 168 | 130 | 6026.86 | 3229 | 168 |
| | Jun 2012 | 380 | 267 | 10 | 183 | 0 | 183 | 133 | 6028.74 | 3301 | 183 |
| | Jul 2012 | 183 | 135 | 14 | 101 | 0 | 101 | 133 | 6029.24 | 3320 | 101 |
| | Aug 2012 | 84 | 95 | 13 | 101 | 0 | 101 | 133 | 6028.76 | 3302 | 101 |
| | Sep 2012 | 62 | 79 | 11 | 98 | 0 | 98 | 132 | 6028.00 | 3273 | 98 |
| | **WY 2012** | **1418** | **1392** | **80** | **1514** | **1** | **1515** | | | | **1638** |
| | Oct 2012 | 61 | 83 | 7 | 101 | 0 | 101 | 131 | 6027.34 | 3247 | 101 |
| | Nov 2012 | 51 | 79 | 3 | 98 | 0 | 98 | 130 | 6026.77 | 3226 | 98 |
| | Dec 2012 | 36 | 77 | 2 | 101 | 0 | 101 | 129 | 6026.10 | 3201 | 101 |
| | Jan 2013 | 41 | 84 | 2 | 101 | 0 | 101 | 128 | 6025.62 | 3183 | 101 |
| | Feb 2013 | 46 | 84 | 2 | 92 | 0 | 92 | 128 | 6025.37 | 3174 | 92 |
| | Mar 2013 | 104 | 126 | 3 | 101 | 0 | 101 | 128 | 6025.92 | 3194 | 101 |
| | Apr 2013 | 142 | 136 | 5 | 98 | 0 | 98 | 130 | 6026.78 | 3226 | 98 |
| | May 2013 | 265 | 193 | 8 | 148 | 0 | 148 | 131 | 6027.75 | 3263 | 148 |
| | Jun 2013 | 399 | 285 | 10 | 193 | 0 | 193 | 134 | 6029.78 | 3341 | 193 |
| | Jul 2013 | 218 | 171 | 14 | 98 | 0 | 98 | 137 | 6031.26 | 3398 | 98 |
| | Aug 2013 | 96 | 100 | 13 | 98 | 0 | 98 | 136 | 6030.98 | 3387 | 98 |
| | Sep 2013 | 58 | 81 | 11 | 95 | 0 | 95 | 135 | 6030.36 | 3363 | 95 |
| | **WY 2013** | **1518** | **1501** | **80** | **1327** | **0** | **1327** | | | | **1327** |
| | Oct 2013 | 59 | 84 | 7 | 98 | 0 | 98 | 134 | 6029.82 | 3342 | 98 |
| | Nov 2013 | 50 | 80 | 3 | 95 | 0 | 95 | 134 | 6029.36 | 3324 | 95 |

* 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

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*Managing Water in the West*

## December 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) |
|---|---|---|---|---|---|
| * | Dec 2010 | 5 | 5 | 9312.71 | 74 |
| H | Jan 2011 | 5 | 5 | 9312.70 | 74 |
| I | Feb 2011 | 4 | 4 | 9312.51 | 74 |
| S | Mar 2011 | 5 | 6 | 9311.89 | 73 |
| T | Apr 2011 | 7 | 8 | 9311.44 | 72 |
| O | May 2011 | 22 | 33 | 9304.21 | 61 |
| R | Jun 2011 | 65 | 28 | 9326.09 | 98 |
| I | Jul 2011 | 37 | 39 | 9325.07 | 96 |
| C | Aug 2011 | 12 | 24 | 9318.44 | 84 |
| A | Sep 2011 | 7 | 20 | 9310.68 | 71 |
| | **WY 2011** | **179** | **181** | | |
| L | Oct 2011 | 7 | 9 | 9309.52 | 69 |
| * | Nov 2011 | 5 | 6 | 9309.15 | 69 |
| | Dec 2011 | 6 | 6 | 9309.15 | 69 |
| | Jan 2012 | 5 | 6 | 9308.70 | 68 |
| | Feb 2012 | 5 | 6 | 9307.86 | 67 |
| | Mar 2012 | 5 | 6 | 9307.15 | 65 |
| | Apr 2012 | 9 | 8 | 9307.86 | 67 |
| | May 2012 | 27 | 16 | 9314.66 | 78 |
| | Jun 2012 | 42 | 20 | 9326.67 | 100 |
| | Jul 2012 | 18 | 20 | 9325.38 | 97 |
| | Aug 2012 | 9 | 20 | 9319.45 | 86 |
| | Sep 2012 | 7 | 16 | 9314.42 | 77 |
| | **WY 2012** | **145** | **139** | | |
| | Oct 2012 | 6 | 10 | 9312.20 | 73 |
| | Nov 2012 | 5 | 6 | 9311.57 | 72 |
| | Dec 2012 | 4 | 6 | 9310.62 | 71 |
| | Jan 2013 | 4 | 6 | 9309.49 | 69 |
| | Feb 2013 | 4 | 6 | 9308.21 | 67 |
| | Mar 2013 | 4 | 6 | 9307.07 | 65 |
| | Apr 2013 | 8 | 8 | 9307.29 | 66 |
| | May 2013 | 27 | 16 | 9314.24 | 77 |
| | Jun 2013 | 43 | 20 | 9326.76 | 100 |
| | Jul 2013 | 20 | 20 | 9326.97 | 100 |
| | Aug 2013 | 10 | 20 | 9321.74 | 90 |
| | Sep 2013 | 7 | 16 | 9316.74 | 81 |
| | **WY 2013** | **144** | **140** | | |
| | Oct 2013 | 6 | 10 | 9314.51 | 77 |
| | Nov 2013 | 5 | 6 | 9313.86 | 76 |

* 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

RECLAMATION
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## December 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) |
|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 30 | 29 | 0 | 27 | 0 | 27 | 7486.84 | 557 |
| H | Jan 2011 | 23 | 23 | 0 | 27 | 0 | 27 | 7486.34 | 553 |
| I | Feb 2011 | 21 | 21 | 0 | 43 | 0 | 43 | 7483.46 | 532 |
| S | Mar 2011 | 38 | 39 | 0 | 75 | 0 | 75 | 7478.48 | 495 |
| T | Apr 2011 | 77 | 78 | 1 | 95 | 0 | 95 | 7475.97 | 477 |
| O | May 2011 | 168 | 179 | 1 | 162 | 0 | 162 | 7478.26 | 493 |
| R | Jun 2011 | 425 | 389 | 1 | 127 | 19 | 146 | 7508.73 | 735 |
| I | Jul 2011 | 222 | 222 | 2 | 150 | 0 | 150 | 7516.80 | 806 |
| C | Aug 2011 | 67 | 79 | 1 | 123 | 0 | 123 | 7511.67 | 760 |
| A | Sep 2011 | 35 | 48 | 1 | 108 | 0 | 108 | 7504.54 | 699 |
| | **WY 2011** | **1162** | **1163** | **8** | **1046** | **19** | **1065** | | |
| L | Oct 2011 | 36 | 38 | 1 | 93 | 0 | 93 | 7497.84 | 644 |
| * | Nov 2011 | 29 | 29 | 0 | 37 | 0 | 37 | 7496.82 | 635 |
| | Dec 2011 | 30 | 30 | 0 | 84 | 0 | 84 | 7490.00 | 581 |
| | Jan 2012 | 28 | 29 | 0 | 68 | 0 | 68 | 7484.84 | 542 |
| | Feb 2012 | 25 | 26 | 0 | 64 | 0 | 64 | 7479.72 | 504 |
| | Mar 2012 | 34 | 35 | 0 | 39 | 0 | 39 | 7479.13 | 500 |
| | Apr 2012 | 78 | 77 | 1 | 47 | 0 | 47 | 7483.10 | 529 |
| | May 2012 | 206 | 195 | 1 | 108 | 0 | 108 | 7494.25 | 615 |
| | Jun 2012 | 255 | 233 | 1 | 58 | 0 | 58 | 7514.83 | 788 |
| | Jul 2012 | 105 | 108 | 2 | 92 | 0 | 92 | 7516.40 | 802 |
| | Aug 2012 | 52 | 63 | 1 | 122 | 0 | 122 | 7509.60 | 742 |
| | Sep 2012 | 43 | 52 | 1 | 116 | 0 | 116 | 7501.92 | 677 |
| | **WY 2012** | **920** | **915** | **9** | **928** | **0** | **928** | | |
| | Oct 2012 | 40 | 44 | 1 | 70 | 0 | 70 | 7498.66 | 650 |
| | Nov 2012 | 32 | 33 | 0 | 40 | 0 | 40 | 7497.82 | 644 |
| | Dec 2012 | 25 | 27 | 0 | 89 | 0 | 89 | 7490.00 | 581 |
| | Jan 2013 | 24 | 26 | 0 | 79 | 0 | 79 | 7482.99 | 528 |
| | Feb 2013 | 22 | 24 | 0 | 54 | 0 | 54 | 7478.87 | 498 |
| | Mar 2013 | 34 | 36 | 0 | 36 | 0 | 36 | 7478.80 | 497 |
| | Apr 2013 | 73 | 73 | 1 | 48 | 0 | 48 | 7482.08 | 521 |
| | May 2013 | 212 | 201 | 1 | 107 | 0 | 107 | 7494.15 | 614 |
| | Jun 2013 | 271 | 248 | 1 | 66 | 0 | 66 | 7515.55 | 795 |
| | Jul 2013 | 121 | 120 | 2 | 111 | 0 | 111 | 7516.40 | 802 |
| | Aug 2013 | 62 | 72 | 1 | 122 | 0 | 122 | 7510.58 | 751 |
| | Sep 2013 | 36 | 45 | 1 | 113 | 0 | 113 | 7502.52 | 682 |
| | **WY 2013** | **953** | **949** | **9** | **935** | **0** | **935** | | |
| | Oct 2013 | 36 | 39 | 1 | 70 | 0 | 70 | 7498.75 | 651 |
| | Nov 2013 | 31 | 32 | 0 | 40 | 0 | 40 | 7497.69 | 642 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 30 | 27 | 0 | 28 | 27 | 0 | 27 | 7153.98 | 112 |
| H | Jan 2011 | 23 | 27 | 0 | 27 | 27 | 0 | 27 | 7153.70 | 112 |
| I | Feb 2011 | 21 | 43 | 0 | 43 | 44 | 0 | 44 | 7152.08 | 111 |
| S | Mar 2011 | 38 | 75 | 1 | 75 | 73 | 0 | 73 | 7154.37 | 113 |
| T | Apr 2011 | 84 | 95 | 7 | 102 | 104 | 0 | 104 | 7152.20 | 111 |
| O | May 2011 | 191 | 162 | 23 | 185 | 181 | 0 | 181 | 7156.18 | 114 |
| R | Jun 2011 | 455 | 146 | 30 | 176 | 170 | 0 | 176 | 7155.72 | 114 |
| I | Jul 2011 | 231 | 150 | 9 | 159 | 159 | 0 | 159 | 7155.22 | 113 |
| C | Aug 2011 | 68 | 123 | 1 | 125 | 124 | 0 | 124 | 7155.77 | 114 |
| A | Sep 2011 | 36 | 108 | 1 | 109 | 115 | 0 | 115 | 7148.00 | 108 |
| | **WY 2011** | **1236** | **1065** | **74** | **1139** | **1133** | **0** | **1139** | | |
| L | Oct 2011 | 37 | 93 | 1 | 94 | 91 | 0 | 91 | 7151.08 | 110 |
| * | Nov 2011 | 30 | 37 | 2 | 39 | 38 | 0 | 38 | 7151.73 | 110 |
| | Dec 2011 | 32 | 84 | 2 | 86 | 84 | 0 | 84 | 7153.73 | 112 |
| | Jan 2012 | 30 | 68 | 2 | 70 | 70 | 0 | 70 | 7153.73 | 112 |
| | Feb 2012 | 27 | 64 | 2 | 66 | 66 | 0 | 66 | 7153.73 | 112 |
| | Mar 2012 | 37 | 39 | 3 | 42 | 42 | 0 | 42 | 7153.73 | 112 |
| | Apr 2012 | 90 | 47 | 12 | 59 | 59 | 0 | 59 | 7153.73 | 112 |
| | May 2012 | 230 | 108 | 24 | 132 | 132 | 0 | 132 | 7153.73 | 112 |
| | Jun 2012 | 275 | 58 | 20 | 78 | 78 | 0 | 78 | 7153.73 | 112 |
| | Jul 2012 | 112 | 92 | 7 | 99 | 99 | 0 | 99 | 7153.73 | 112 |
| | Aug 2012 | 56 | 122 | 4 | 126 | 126 | 0 | 126 | 7153.73 | 112 |
| | Sep 2012 | 46 | 116 | 3 | 119 | 119 | 0 | 119 | 7153.73 | 112 |
| | **WY 2012** | **1002** | **928** | **81** | **1009** | **1005** | **0** | **1005** | | |
| | Oct 2012 | 43 | 70 | 3 | 73 | 73 | 0 | 73 | 7153.73 | 112 |
| | Nov 2012 | 35 | 40 | 2 | 42 | 42 | 0 | 42 | 7153.73 | 112 |
| | Dec 2012 | 27 | 89 | 2 | 91 | 91 | 0 | 91 | 7153.73 | 112 |
| | Jan 2013 | 26 | 79 | 2 | 81 | 81 | 0 | 81 | 7153.73 | 112 |
| | Feb 2013 | 25 | 54 | 3 | 57 | 57 | 0 | 57 | 7153.73 | 112 |
| | Mar 2013 | 38 | 36 | 4 | 40 | 40 | 0 | 40 | 7153.73 | 112 |
| | Apr 2013 | 84 | 48 | 11 | 59 | 59 | 0 | 59 | 7153.73 | 112 |
| | May 2013 | 237 | 107 | 25 | 132 | 132 | 0 | 132 | 7153.73 | 112 |
| | Jun 2013 | 292 | 66 | 21 | 87 | 87 | 0 | 87 | 7153.73 | 112 |
| | Jul 2013 | 127 | 111 | 7 | 118 | 118 | 0 | 118 | 7153.73 | 112 |
| | Aug 2013 | 65 | 122 | 4 | 126 | 126 | 0 | 126 | 7153.73 | 112 |
| | Sep 2013 | 39 | 113 | 3 | 116 | 116 | 0 | 116 | 7153.73 | 112 |
| | **WY 2013** | **1039** | **935** | **86** | **1022** | **1022** | **0** | **1022** | | |
| | Oct 2013 | 38 | 70 | 3 | 73 | 73 | 0 | 73 | 7153.73 | 112 |
| | Nov 2013 | 33 | 40 | 2 | 42 | 42 | 0 | 42 | 7153.73 | 112 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 34 | 27 | 4 | 31 | 31 | 0 | 31 | 6748.24 | 16 | 1 | 30 |
| H | Jan 2011 | 27 | 27 | 4 | 31 | 30 | 1 | 31 | 6749.02 | 16 | 1 | 30 |
| I | Feb 2011 | 24 | 44 | 3 | 47 | 24 | 23 | 46 | 6751.55 | 17 | 1 | 47 |
| S | Mar 2011 | 43 | 73 | 5 | 78 | 78 | 0 | 78 | 6751.94 | 17 | 5 | 76 |
| T | Apr 2011 | 92 | 104 | 8 | 112 | 110 | 2 | 112 | 6752.03 | 17 | 38 | 79 |
| O | May 2011 | 204 | 181 | 13 | 195 | 126 | 68 | 194 | 6753.39 | 17 | 63 | 137 |
| R | Jun 2011 | 516 | 176 | 61 | 237 | 120 | 81 | 237 | 6752.90 | 17 | 62 | 183 |
| I | Jul 2011 | 255 | 159 | 23 | 182 | 128 | 58 | 186 | 6739.47 | 13 | 62 | 136 |
| C | Aug 2011 | 75 | 124 | 7 | 131 | 126 | 2 | 129 | 6748.39 | 16 | 66 | 70 |
| A | Sep 2011 | 39 | 115 | 4 | 119 | 120 | 0 | 120 | 6744.21 | 14 | 64 | 62 |
| | **WY 2011** | **1375** | **1139** | **139** | **1278** | **1008** | **235** | **1279** | | | **413** | **912** |
| L | Oct 2011 | 41 | 91 | 4 | 96 | 94 | 0 | 94 | 6749.65 | 16 | 53 | 44 |
| * | Nov 2011 | 34 | 38 | 4 | 42 | 41 | 1 | 41 | 6751.53 | 17 | 1 | 41 |
| | Dec 2011 | 36 | 84 | 4 | 88 | 88 | 0 | 88 | 6753.04 | 17 | 0 | 88 |
| | Jan 2012 | 34 | 70 | 4 | 74 | 74 | 0 | 74 | 6753.04 | 17 | 0 | 74 |
| | Feb 2012 | 30 | 66 | 3 | 69 | 69 | 0 | 69 | 6753.04 | 17 | 0 | 69 |
| | Mar 2012 | 43 | 42 | 6 | 48 | 48 | 0 | 48 | 6753.04 | 17 | 5 | 43 |
| | Apr 2012 | 103 | 59 | 13 | 72 | 72 | 0 | 72 | 6753.04 | 17 | 30 | 42 |
| | May 2012 | 260 | 132 | 30 | 162 | 134 | 28 | 162 | 6753.04 | 17 | 55 | 107 |
| | Jun 2012 | 305 | 78 | 30 | 108 | 108 | 0 | 108 | 6753.04 | 17 | 60 | 48 |
| | Jul 2012 | 129 | 99 | 17 | 116 | 116 | 0 | 116 | 6753.04 | 17 | 65 | 51 |
| | Aug 2012 | 64 | 126 | 8 | 134 | 134 | 0 | 134 | 6753.04 | 17 | 65 | 69 |
| | Sep 2012 | 52 | 119 | 6 | 125 | 125 | 0 | 125 | 6753.04 | 17 | 55 | 70 |
| | **WY 2012** | **1131** | **1005** | **129** | **1134** | **1103** | **28** | **1131** | | | **388** | **746** |
| | Oct 2012 | 49 | 73 | 6 | 79 | 79 | 0 | 79 | 6753.04 | 17 | 30 | 49 |
| | Nov 2012 | 40 | 42 | 5 | 47 | 47 | 0 | 47 | 6753.04 | 17 | 0 | 47 |
| | Dec 2012 | 32 | 91 | 5 | 96 | 96 | 0 | 96 | 6753.04 | 17 | 0 | 96 |
| | Jan 2013 | 31 | 81 | 5 | 86 | 86 | 0 | 86 | 6753.04 | 17 | 0 | 86 |
| | Feb 2013 | 29 | 57 | 4 | 61 | 61 | 0 | 61 | 6753.04 | 17 | 0 | 61 |
| | Mar 2013 | 46 | 40 | 7 | 47 | 47 | 0 | 47 | 6753.04 | 17 | 5 | 42 |
| | Apr 2013 | 96 | 59 | 12 | 71 | 71 | 0 | 71 | 6753.04 | 17 | 30 | 41 |
| | May 2013 | 272 | 132 | 35 | 167 | 134 | 33 | 167 | 6753.04 | 17 | 55 | 112 |
| | Jun 2013 | 330 | 87 | 38 | 125 | 125 | 0 | 125 | 6753.04 | 17 | 60 | 65 |
| | Jul 2013 | 144 | 118 | 17 | 135 | 134 | 1 | 135 | 6753.04 | 17 | 65 | 70 |
| | Aug 2013 | 74 | 126 | 8 | 134 | 134 | 0 | 134 | 6753.04 | 17 | 65 | 69 |
| | Sep 2013 | 45 | 116 | 6 | 122 | 122 | 0 | 122 | 6753.04 | 17 | 55 | 67 |
| | **WY 2013** | **1189** | **1022** | **150** | **1172** | **1138** | **34** | **1172** | | | **365** | **807** |
| | Oct 2013 | 44 | 73 | 6 | 79 | 79 | 0 | 79 | 6753.04 | 17 | 30 | 49 |
| | Nov 2013 | 38 | 42 | 5 | 47 | 47 | 0 | 47 | 6753.04 | 17 | 0 | 47 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 2011 24-Month Study

Most Probable Inflow*

## Vallecito Reservoir

| | Date | Regulated Inflow (1000 Ac-Ft) | Total Release (1000 Ac-Ft) | Reservoir Elev End of Month (Ft) | Live Storage (1000 Ac-Ft) |
|---|---|---|---|---|---|
| * | Dec 2010 | 6 | 2 | 7641.20 | 67 |
| H | Jan 2011 | 5 | 2 | 7642.53 | 70 |
| I | Feb 2011 | 4 | 2 | 7643.62 | 72 |
| S | Mar 2011 | 7 | 2 | 7645.67 | 77 |
| T | Apr 2011 | 22 | 4 | 7653.10 | 95 |
| O | May 2011 | 44 | 27 | 7659.70 | 111 |
| R | Jun 2011 | 79 | 64 | 7664.94 | 125 |
| I | Jul 2011 | 23 | 39 | 7658.78 | 109 |
| C | Aug 2011 | 9 | 37 | 7647.29 | 81 |
| A | Sep 2011 | 8 | 29 | 7637.58 | 59 |
| | **WY 2011** | **225** | **222** | | |
| L | Oct 2011 | 15 | 9 | 7640.42 | 65 |
| * | Nov 2011 | 9 | 2 | 7643.33 | 72 |
| | Dec 2011 | 5 | 3 | 7644.43 | 74 |
| | Jan 2012 | 4 | 3 | 7645.10 | 76 |
| | Feb 2012 | 4 | 2 | 7645.71 | 77 |
| | Mar 2012 | 6 | 3 | 7646.89 | 80 |
| | Apr 2012 | 20 | 3 | 7653.71 | 96 |
| | May 2012 | 64 | 40 | 7662.68 | 119 |
| | Jun 2012 | 75 | 69 | 7664.65 | 124 |
| | Jul 2012 | 26 | 42 | 7658.55 | 108 |
| | Aug 2012 | 17 | 38 | 7650.03 | 87 |
| | Sep 2012 | 14 | 30 | 7643.32 | 71 |
| | **WY 2012** | **259** | **243** | | |
| | Oct 2012 | 12 | 17 | 7640.96 | 66 |
| | Nov 2012 | 8 | 3 | 7643.04 | 71 |
| | Dec 2012 | 6 | 3 | 7644.20 | 73 |
| | Jan 2013 | 5 | 3 | 7644.99 | 75 |
| | Feb 2013 | 5 | 3 | 7645.72 | 77 |
| | Mar 2013 | 8 | 3 | 7647.78 | 82 |
| | Apr 2013 | 22 | 3 | 7655.47 | 100 |
| | May 2013 | 69 | 51 | 7662.52 | 119 |
| | Jun 2013 | 78 | 71 | 7664.83 | 125 |
| | Jul 2013 | 31 | 42 | 7660.61 | 114 |
| | Aug 2013 | 19 | 38 | 7653.13 | 95 |
| | Sep 2013 | 17 | 30 | 7647.84 | 82 |
| | **WY 2013** | **280** | **267** | | |
| | Oct 2013 | 14 | 19 | 7645.54 | 77 |
| | Nov 2013 | 8 | 8 | 7645.74 | 77 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 23 | 0 | 19 | 1 | 1 | 30 | 6061.11 | 1362 | 42 |
| H | Jan 2011 | 16 | 0 | 13 | 1 | 1 | 31 | 6059.58 | 1342 | 50 |
| I | Feb 2011 | 18 | 0 | 15 | 1 | 1 | 28 | 6058.41 | 1328 | 45 |
| S | Mar 2011 | 41 | 2 | 35 | 2 | 4 | 31 | 6058.28 | 1326 | 46 |
| T | Apr 2011 | 115 | 14 | 84 | 2 | 19 | 31 | 6060.75 | 1357 | 44 |
| O | May 2011 | 172 | 22 | 134 | 4 | 28 | 32 | 6066.13 | 1428 | 79 |
| R | Jun 2011 | 252 | 43 | 193 | 4 | 42 | 113 | 6068.65 | 1462 | 295 |
| I | Jul 2011 | 40 | 8 | 46 | 5 | 48 | 31 | 6065.88 | 1424 | 98 |
| C | Aug 2011 | 3 | 2 | 29 | 4 | 47 | 46 | 6060.64 | 1356 | 47 |
| A | Sep 2011 | 15 | 2 | 35 | 3 | 20 | 40 | 6058.35 | 1327 | |
| | **WY 2011** | **737** | **93** | **641** | **28** | **220** | **478** | | | **838** |
| L | Oct 2011 | 54 | 4 | 44 | 2 | 10 | 33 | 6058.32 | 1327 | 55 |
| * | Nov 2011 | 31 | 1 | 23 | 1 | 0 | 21 | 6058.38 | 1327 | 47 |
| | Dec 2011 | 20 | 0 | 17 | 1 | 0 | 31 | 6057.26 | 1313 | 31 |
| | Jan 2012 | 20 | 0 | 18 | 1 | 0 | 31 | 6056.21 | 1300 | 31 |
| | Feb 2012 | 26 | 0 | 24 | 1 | 0 | 29 | 6055.80 | 1295 | 29 |
| | Mar 2012 | 71 | 3 | 65 | 2 | 2 | 31 | 6058.32 | 1327 | 31 |
| | Apr 2012 | 136 | 17 | 103 | 2 | 17 | 30 | 6062.53 | 1380 | 30 |
| | May 2012 | 260 | 46 | 190 | 4 | 31 | 57 | 6069.86 | 1479 | 57 |
| | Jun 2012 | 230 | 32 | 193 | 5 | 46 | 146 | 6069.58 | 1475 | 146 |
| | Jul 2012 | 54 | 7 | 63 | 5 | 51 | 34 | 6067.66 | 1448 | 34 |
| | Aug 2012 | 29 | 2 | 48 | 4 | 43 | 53 | 6063.78 | 1397 | 53 |
| | Sep 2012 | 32 | 0 | 47 | 3 | 24 | 36 | 6062.55 | 1381 | 36 |
| | **WY 2012** | **963** | **112** | **836** | **28** | **224** | **530** | | | **578** |
| | Oct 2012 | 34 | 1 | 37 | 2 | 6 | 31 | 6062.46 | 1379 | 31 |
| | Nov 2012 | 30 | 1 | 25 | 1 | 0 | 30 | 6062.02 | 1374 | 30 |
| | Dec 2012 | 24 | 0 | 21 | 1 | 0 | 31 | 6061.22 | 1363 | 31 |
| | Jan 2013 | 22 | 0 | 20 | 1 | 0 | 31 | 6060.34 | 1352 | 31 |
| | Feb 2013 | 30 | 0 | 29 | 1 | 0 | 28 | 6060.34 | 1352 | 28 |
| | Mar 2013 | 88 | 3 | 81 | 2 | 2 | 31 | 6063.94 | 1399 | 31 |
| | Apr 2013 | 174 | 15 | 140 | 3 | 17 | 30 | 6070.64 | 1489 | 30 |
| | May 2013 | 279 | 37 | 222 | 4 | 31 | 114 | 6075.78 | 1562 | 114 |
| | Jun 2013 | 246 | 31 | 208 | 5 | 46 | 259 | 6068.54 | 1460 | 259 |
| | Jul 2013 | 74 | 6 | 79 | 5 | 51 | 44 | 6067.05 | 1440 | 44 |
| | Aug 2013 | 43 | 2 | 60 | 4 | 43 | 45 | 6064.64 | 1408 | 45 |
| | Sep 2013 | 42 | 0 | 54 | 3 | 24 | 38 | 6063.79 | 1397 | 38 |
| | **WY 2013** | **1087** | **96** | **977** | **29** | **220** | **711** | | | **711** |
| | Oct 2013 | 40 | 1 | 44 | 2 | 6 | 33 | 6064.03 | 1400 | 33 |
| | Nov 2013 | 33 | 1 | 32 | 1 | 0 | 30 | 6064.11 | 1401 | 30 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 416 | 446 | 30 | 847 | 0 | 847 | 3626.54 | 18017 | 14469 | 865 |
| H | Jan 2011 | 381 | 429 | 9 | 997 | 0 | 997 | 3620.55 | 18086 | 13822 | 1015 |
| I | Feb 2011 | 317 | 377 | 10 | 964 | 0 | 964 | 3614.95 | 18076 | 13235 | 984 |
| S | Mar 2011 | 579 | 581 | 16 | 1033 | 0 | 1033 | 3610.73 | 18039 | 12804 | 1055 |
| T | Apr 2011 | 977 | 937 | 25 | 940 | 0 | 940 | 3611.93 | 17890 | 12926 | 965 |
| O | May 2011 | 2178 | 2205 | 30 | 1171 | 0 | 1171 | 3623.13 | 17722 | 14098 | 1207 |
| R | Jun 2011 | 5408 | 4866 | 54 | 1377 | 0 | 1377 | 3648.98 | 18166 | 17089 | 1419 |
| I | Jul 2011 | 4328 | 3756 | 74 | 1483 | 0 | 1483 | 3660.86 | 18849 | 18605 | 1532 |
| C | Aug 2011 | 858 | 974 | 74 | 1479 | 0 | 1479 | 3655.34 | 18986 | 17890 | 1530 |
| A | Sep 2011 | 532 | 744 | 67 | 922 | 0 | 922 | 3653.01 | 19037 | 17593 | 957 |
| | **WY 2011** | **16774** | **16301** | **467** | **12518** | **0** | **12518** | | | | **12856** |
| L | Oct 2011 | 575 | 692 | 45 | 956 | 0 | 956 | 3650.27 | 19071 | 17249 | 984 |
| * | Nov 2011 | 570 | 594 | 43 | 1099 | 0 | 1099 | 3645.69 | 19088 | 16685 | 1124 |
| | Dec 2011 | 500 | 620 | 33 | 1225 | 0 | 1225 | 3640.77 | 19040 | 16094 | 1225 |
| | Jan 2012 | 450 | 603 | 10 | 1000 | 0 | 1000 | 3637.57 | 19010 | 15718 | 1000 |
| | Feb 2012 | 450 | 585 | 11 | 800 | 0 | 800 | 3635.76 | 18994 | 15508 | 800 |
| | Mar 2012 | 675 | 717 | 19 | 800 | 0 | 800 | 3634.94 | 18986 | 15414 | 800 |
| | Apr 2012 | 1050 | 942 | 29 | 1050 | 0 | 1050 | 3633.84 | 18976 | 15287 | 1050 |
| | May 2012 | 2250 | 1955 | 35 | 1100 | 0 | 1100 | 3640.36 | 19037 | 16046 | 1100 |
| | Jun 2012 | 2750 | 2349 | 57 | 1113 | 0 | 1113 | 3649.37 | 19124 | 17138 | 1113 |
| | Jul 2012 | 1150 | 1092 | 70 | 1250 | 0 | 1250 | 3647.67 | 19107 | 16927 | 1250 |
| | Aug 2012 | 525 | 681 | 69 | 800 | 0 | 800 | 3646.25 | 19093 | 16754 | 800 |
| | Sep 2012 | 475 | 613 | 63 | 714 | 0 | 714 | 3645.00 | 19081 | 16601 | 714 |
| | **WY 2012** | **11420** | **11444** | **484** | **11907** | **0** | **11907** | | | | **11960** |
| | Oct 2012 | 525 | 600 | 43 | 737 | 0 | 737 | 3643.61 | 19068 | 16434 | 737 |
| | Nov 2012 | 529 | 584 | 41 | 600 | 0 | 600 | 3643.17 | 19063 | 16381 | 600 |
| | Dec 2012 | 414 | 550 | 33 | 800 | 0 | 800 | 3640.97 | 19042 | 16118 | 800 |
| | Jan 2013 | 384 | 508 | 10 | 800 | 0 | 800 | 3638.60 | 19020 | 15839 | 800 |
| | Feb 2013 | 398 | 473 | 11 | 800 | 0 | 800 | 3635.91 | 18995 | 15526 | 800 |
| | Mar 2013 | 628 | 574 | 19 | 600 | 0 | 600 | 3635.56 | 18992 | 15484 | 600 |
| | Apr 2013 | 950 | 769 | 29 | 900 | 0 | 900 | 3634.26 | 18980 | 15336 | 900 |
| | May 2013 | 2161 | 1843 | 35 | 1000 | 0 | 1000 | 3640.68 | 19040 | 16084 | 1000 |
| | Jun 2013 | 2811 | 2491 | 57 | 1081 | 0 | 1081 | 3650.97 | 19140 | 17336 | 1081 |
| | Jul 2013 | 1346 | 1242 | 71 | 1220 | 0 | 1220 | 3650.61 | 19136 | 17291 | 1220 |
| | Aug 2013 | 566 | 676 | 70 | 1050 | 0 | 1050 | 3647.28 | 19103 | 16880 | 1050 |
| | Sep 2013 | 460 | 594 | 63 | 700 | 0 | 700 | 3646.00 | 19091 | 16723 | 700 |
| | **WY 2013** | **11172** | **10903** | **484** | **10288** | **0** | **10288** | | | | **10288** |
| | Oct 2013 | 514 | 588 | 44 | 600 | 0 | 600 | 3645.57 | 19087 | 16671 | 600 |
| | Nov 2013 | 523 | 575 | 42 | 600 | 0 | 600 | 3645.06 | 19082 | 16609 | 600 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 2011 24-Month Study

Most Probable Inflow*

## Hoover Dam - Lake Mead

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

| | Date | Glen Release (1000 Ac-Ft) | Side Inflow (1000 Ac-Ft) | Evap Losses (1000 Ac-Ft) | Total Release (1000 Ac-Ft) | Total Release (1000 CFS) | SNWP Use (1000 Ac-Ft) | Downstream Requirements (1000 Ac-Ft) | Bank Storage (1000 Ac-Ft) | Reservoir Elev End of Month (Ft) | EOM Storage (1000 Ac-Ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 847 | 248 | 37 | 660 | 10.7 | 9 | 630 | 670 | 1086.30 | 10301 |
| H | Jan 2011 | 997 | 74 | 31 | 540 | 8.8 | 8 | 526 | 700 | 1091.73 | 10765 |
| I | Feb 2011 | 964 | 84 | 29 | 635 | 11.4 | 9 | 616 | 723 | 1095.78 | 11117 |
| S | Mar 2011 | 1033 | 77 | 33 | 1006 | 16.4 | 15 | 1002 | 726 | 1096.39 | 11170 |
| T | Apr 2011 | 940 | 140 | 40 | 1078 | 18.1 | 20 | 1066 | 722 | 1095.76 | 11115 |
| O | May 2011 | 1171 | 104 | 47 | 1001 | 16.3 | 25 | 997 | 735 | 1097.90 | 11304 |
| R | Jun 2011 | 1377 | 72 | 57 | 939 | 15.8 | 25 | 938 | 761 | 1102.38 | 11705 |
| I | Jul 2011 | 1483 | 74 | 73 | 1001 | 16.3 | 26 | 1000 | 789 | 1107.07 | 12133 |
| C | Aug 2011 | 1479 | 96 | 80 | 831 | 13.5 | 28 | 829 | 827 | 1113.45 | 12730 |
| A | Sep 2011 | 922 | 96 | 67 | 670 | 11.3 | 18 | 668 | 844 | 1116.04 | 12977 |
| | **WY 2011** | **12518** | **1157** | **578** | **9799** | | **225** | **9676** | | | |
| L | Oct 2011 | 956 | 65 | 49 | 443 | 7.2 | 19 | 436 | 875 | 1121.00 | 13456 |
| * | Nov 2011 | 1099 | 35 | 50 | 564 | 9.5 | 12 | 561 | 906 | 1125.82 | 13933 |
| | Dec 2011 | 1225 | 99 | 45 | 499 | 8.1 | 29 | 499 | 952 | 1132.79 | 14639 |
| | Jan 2012 | 1000 | 76 | 37 | 716 | 11.6 | 16 | 716 | 970 | 1135.57 | 14928 |
| | Feb 2012 | 800 | 92 | 34 | 662 | 11.5 | 15 | 662 | 981 | 1137.20 | 15097 |
| | Mar 2012 | 800 | 80 | 39 | 955 | 15.5 | 18 | 955 | 973 | 1136.01 | 14973 |
| | Apr 2012 | 1050 | 60 | 48 | 1098 | 18.5 | 16 | 1098 | 970 | 1135.54 | 14925 |
| | May 2012 | 1100 | 49 | 55 | 1018 | 16.6 | 27 | 1018 | 973 | 1135.99 | 14971 |
| | Jun 2012 | 1113 | 23 | 67 | 940 | 15.8 | 24 | 940 | 980 | 1136.93 | 15070 |
| | Jul 2012 | 1250 | 50 | 84 | 919 | 14.9 | 28 | 919 | 996 | 1139.34 | 15323 |
| | Aug 2012 | 800 | 109 | 90 | 824 | 13.4 | 28 | 824 | 994 | 1139.04 | 15292 |
| | Sep 2012 | 714 | 70 | 74 | 664 | 11.2 | 18 | 664 | 996 | 1139.29 | 15317 |
| | **WY 2012** | **11907** | **808** | **673** | **9301** | | **249** | **9290** | | | |
| | Oct 2012 | 737 | 59 | 54 | 398 | 6.5 | 21 | 398 | 1015 | 1142.15 | 15621 |
| | Nov 2012 | 600 | 48 | 55 | 664 | 11.2 | 18 | 664 | 1010 | 1141.38 | 15538 |
| | Dec 2012 | 800 | 99 | 47 | 528 | 8.6 | 15 | 528 | 1029 | 1144.07 | 15827 |
| | Jan 2013 | 800 | 76 | 39 | 695 | 11.3 | 16 | 695 | 1036 | 1145.15 | 15945 |
| | Feb 2013 | 800 | 92 | 36 | 702 | 12.6 | 15 | 702 | 1045 | 1146.35 | 16076 |
| | Mar 2013 | 600 | 80 | 40 | 1039 | 16.9 | 21 | 1039 | 1019 | 1142.71 | 15681 |
| | Apr 2013 | 900 | 60 | 49 | 1127 | 18.9 | 17 | 1127 | 1005 | 1140.65 | 15461 |
| | May 2013 | 1000 | 49 | 56 | 1016 | 16.5 | 28 | 1016 | 1002 | 1140.20 | 15413 |
| | Jun 2013 | 1081 | 23 | 68 | 943 | 15.9 | 23 | 943 | 1006 | 1140.81 | 15478 |
| | Jul 2013 | 1220 | 50 | 86 | 934 | 15.2 | 25 | 934 | 1020 | 1142.80 | 15690 |
| | Aug 2013 | 1050 | 109 | 92 | 844 | 13.7 | 27 | 844 | 1032 | 1144.50 | 15874 |
| | Sep 2013 | 700 | 70 | 76 | 686 | 11.5 | 19 | 686 | 1031 | 1144.40 | 15863 |
| | **WY 2013** | **10288** | **815** | **698** | **9577** | | **246** | **9577** | | | |
| | Oct 2013 | 600 | 59 | 55 | 454 | 7.4 | 23 | 454 | 1039 | 1145.50 | 15983 |
| | Nov 2013 | 600 | 48 | 56 | 544 | 9.1 | 22 | 544 | 1040 | 1145.73 | 16007 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 660 | -15 | 9 | 553 | 0 | 553 | 9.0 | 641.21 | 1650 |
| H | Jan 2011 | 540 | -7 | 10 | 502 | 0 | 502 | 8.2 | 641.95 | 1670 |
| I | Feb 2011 | 635 | -10 | 10 | 586 | 0 | 586 | 10.5 | 643.01 | 1699 |
| S | Mar 2011 | 1006 | -11 | 13 | 976 | 0 | 976 | 15.9 | 643.23 | 1705 |
| T | Apr 2011 | 1078 | -13 | 17 | 1047 | 0 | 1047 | 17.6 | 643.30 | 1707 |
| O | May 2011 | 1001 | -10 | 22 | 949 | 0 | 949 | 15.4 | 644.04 | 1727 |
| R | Jun 2011 | 939 | -9 | 25 | 954 | 0 | 954 | 16.0 | 642.27 | 1679 |
| I | Jul 2011 | 1001 | -10 | 25 | 943 | 0 | 943 | 15.3 | 643.11 | 1702 |
| C | Aug 2011 | 831 | -6 | 23 | 822 | 0 | 822 | 13.4 | 642.38 | 1682 |
| A | Sep 2011 | 670 | -6 | 18 | 717 | 0 | 717 | 12.1 | 639.73 | 1610 |
| | **WY 2011** | **9799** | **-120** | **198** | **9446** | **0** | **9446** | | | |
| L | Oct 2011 | 443 | 7 | 15 | 611 | 0 | 611 | 9.9 | 633.03 | 1435 |
| * | Nov 2011 | 564 | -11 | 10 | 466 | 0 | 466 | 7.8 | 635.99 | 1511 |
| | Dec 2011 | 499 | -13 | 9 | 405 | 0 | 405 | 6.6 | 638.70 | 1583 |
| | Jan 2012 | 716 | -17 | 10 | 614 | 0 | 614 | 10.0 | 641.50 | 1658 |
| | Feb 2012 | 662 | -6 | 10 | 639 | 0 | 639 | 11.1 | 641.80 | 1666 |
| | Mar 2012 | 955 | -15 | 13 | 892 | 0 | 892 | 14.5 | 643.05 | 1700 |
| | Apr 2012 | 1098 | -15 | 17 | 1068 | 0 | 1068 | 17.9 | 643.00 | 1699 |
| | May 2012 | 1018 | -10 | 22 | 985 | 0 | 985 | 16.0 | 643.00 | 1699 |
| | Jun 2012 | 940 | -6 | 25 | 936 | 0 | 936 | 15.7 | 642.00 | 1671 |
| | Jul 2012 | 919 | 1 | 25 | 908 | 0 | 908 | 14.8 | 641.50 | 1658 |
| | Aug 2012 | 824 | -5 | 23 | 796 | 0 | 796 | 13.0 | 641.50 | 1658 |
| | Sep 2012 | 664 | 1 | 18 | 741 | 0 | 741 | 12.5 | 638.00 | 1564 |
| | **WY 2012** | **9301** | **-88** | **197** | **9062** | **0** | **9062** | | | |
| | Oct 2012 | 398 | 3 | 14 | 579 | 0 | 579 | 9.4 | 630.49 | 1371 |
| | Nov 2012 | 664 | -10 | 10 | 529 | 0 | 529 | 8.9 | 635.00 | 1486 |
| | Dec 2012 | 528 | -13 | 9 | 409 | 0 | 409 | 6.6 | 638.71 | 1583 |
| | Jan 2013 | 695 | -17 | 10 | 586 | 0 | 586 | 9.5 | 641.80 | 1666 |
| | Feb 2013 | 702 | -6 | 10 | 687 | 0 | 687 | 12.4 | 641.80 | 1666 |
| | Mar 2013 | 1039 | -15 | 13 | 977 | 0 | 977 | 15.9 | 643.05 | 1700 |
| | Apr 2013 | 1127 | -15 | 17 | 1097 | 0 | 1097 | 18.4 | 643.00 | 1699 |
| | May 2013 | 1016 | -10 | 22 | 984 | 0 | 984 | 16.0 | 643.00 | 1699 |
| | Jun 2013 | 943 | -6 | 25 | 939 | 0 | 939 | 15.8 | 642.00 | 1671 |
| | Jul 2013 | 934 | 1 | 25 | 923 | 0 | 923 | 15.0 | 641.50 | 1658 |
| | Aug 2013 | 844 | -5 | 23 | 817 | 0 | 817 | 13.3 | 641.50 | 1658 |
| | Sep 2013 | 686 | 1 | 18 | 762 | 0 | 762 | 12.8 | 638.00 | 1564 |
| | **WY 2013** | **9577** | **-91** | **196** | **9289** | **0** | **9289** | | | |
| | Oct 2013 | 454 | 3 | 15 | 572 | 0 | 572 | 9.3 | 633.00 | 1434 |
| | Nov 2013 | 544 | -10 | 10 | 473 | 0 | 473 | 7.9 | 635.00 | 1486 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 2011 24-Month Study

Most Probable Inflow*

## Parker Dam - Lake Havasu

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

| | Date | Davis Release (1000 Ac-Ft) | Side Inflow (1000 Ac-Ft) | Evap Losses (1000 Ac-Ft) | Total Release (1000 Ac-Ft) | Total Release (1000 CFS) | MWD Diversion (1000 Ac-Ft) | CAP Diversion (1000 Ac-Ft) | Reservoir Elev End of Month (Ft) | EOM Storage (1000 Ac-Ft) | Flow To Mexico (1000 Ac-Ft) | Flow To Mexico (1000 CFS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 553 | 33 | 7 | 290 | 4.7 | 93 | 183 | 448.10 | 582 | 147 | 2.4 |
| H | Jan 2011 | 502 | 8 | 6 | 391 | 6.4 | 52 | 89 | 446.40 | 550 | 141 | 2.3 |
| I | Feb 2011 | 586 | 15 | 8 | 415 | 7.5 | 23 | 135 | 447.29 | 567 | 173 | 3.1 |
| S | Mar 2011 | 976 | 6 | 9 | 694 | 11.3 | 71 | 181 | 448.06 | 581 | 199 | 3.2 |
| T | Apr 2011 | 1047 | 18 | 11 | 786 | 13.2 | 71 | 180 | 448.54 | 590 | 204 | 3.4 |
| O | May 2011 | 949 | 17 | 13 | 691 | 11.2 | 83 | 167 | 448.68 | 593 | 115 | 1.9 |
| R | Jun 2011 | 954 | 14 | 15 | 708 | 11.9 | 96 | 155 | 447.73 | 575 | 120 | 2.0 |
| I | Jul 2011 | 943 | 34 | 17 | 762 | 12.4 | 100 | 77 | 448.22 | 584 | 127 | 2.1 |
| C | Aug 2011 | 822 | 25 | 17 | 669 | 10.9 | 91 | 60 | 448.13 | 583 | 97 | 1.6 |
| A | Sep 2011 | 717 | 30 | 15 | 538 | 9.0 | 83 | 102 | 448.28 | 585 | 91 | 1.5 |
| | **WY 2011** | **9446** | **263** | **140** | **6837** | | **964** | **1652** | | | **1634** | |
| L | Oct 2011 | 611 | 31 | 12 | 472 | 7.7 | 8 | 149 | 447.97 | 579 | 62 | 1.0 |
| * | Nov 2011 | 466 | 38 | 9 | 321 | 5.4 | 7 | 175 | 447.32 | 567 | 94 | 1.6 |
| | Dec 2011 | 405 | 21 | 6 | 285 | 4.6 | 14 | 143 | 445.80 | 539 | 92 | 1.5 |
| | Jan 2012 | 614 | 15 | 6 | 356 | 5.8 | 57 | 184 | 447.00 | 561 | 128 | 2.1 |
| | Feb 2012 | 639 | 6 | 8 | 455 | 7.9 | 49 | 127 | 447.00 | 561 | 156 | 2.7 |
| | Mar 2012 | 892 | 22 | 9 | 693 | 11.3 | 25 | 178 | 447.00 | 561 | 195 | 3.2 |
| | Apr 2012 | 1068 | 18 | 11 | 785 | 13.2 | 78 | 171 | 448.70 | 593 | 192 | 3.2 |
| | May 2012 | 985 | 13 | 13 | 697 | 11.3 | 99 | 178 | 448.70 | 593 | 111 | 1.8 |
| | Jun 2012 | 936 | 9 | 16 | 684 | 11.5 | 96 | 136 | 448.70 | 593 | 120 | 2.0 |
| | Jul 2012 | 908 | 15 | 17 | 745 | 12.1 | 99 | 61 | 448.00 | 580 | 126 | 2.0 |
| | Aug 2012 | 796 | 18 | 17 | 633 | 10.3 | 99 | 61 | 447.50 | 571 | 95 | 1.5 |
| | Sep 2012 | 741 | 15 | 15 | 548 | 9.2 | 96 | 101 | 446.81 | 557 | 89 | 1.5 |
| | **WY 2012** | **9062** | **222** | **139** | **6673** | | **726** | **1668** | | | **1460** | |
| | Oct 2012 | 579 | 20 | 12 | 440 | 7.1 | 36 | 113 | 446.31 | 548 | 63 | 1.0 |
| | Nov 2012 | 529 | 26 | 8 | 383 | 6.4 | 34 | 120 | 446.50 | 552 | 109 | 1.8 |
| | Dec 2012 | 409 | 21 | 6 | 281 | 4.6 | 33 | 104 | 446.50 | 552 | 115 | 1.9 |
| | Jan 2013 | 586 | 15 | 6 | 356 | 5.8 | 93 | 142 | 446.50 | 552 | 122 | 2.0 |
| | Feb 2013 | 687 | 6 | 8 | 461 | 8.3 | 83 | 136 | 446.50 | 552 | 153 | 2.8 |
| | Mar 2013 | 977 | 22 | 9 | 707 | 11.5 | 93 | 179 | 446.70 | 555 | 208 | 3.4 |
| | Apr 2013 | 1097 | 18 | 11 | 795 | 13.4 | 90 | 173 | 448.70 | 593 | 200 | 3.4 |
| | May 2013 | 984 | 13 | 13 | 702 | 11.4 | 93 | 179 | 448.70 | 593 | 111 | 1.8 |
| | Jun 2013 | 939 | 9 | 16 | 675 | 11.3 | 90 | 155 | 448.70 | 593 | 112 | 1.9 |
| | Jul 2013 | 923 | 15 | 17 | 729 | 11.9 | 93 | 99 | 448.00 | 580 | 118 | 1.9 |
| | Aug 2013 | 817 | 18 | 17 | 624 | 10.2 | 93 | 98 | 447.50 | 571 | 92 | 1.5 |
| | Sep 2013 | 762 | 15 | 15 | 529 | 8.9 | 90 | 147 | 446.81 | 557 | 89 | 1.5 |
| | **WY 2013** | **9289** | **199** | **139** | **6682** | | **919** | **1645** | | | **1494** | |
| | Oct 2013 | 572 | 20 | 12 | 442 | 7.2 | 30 | 110 | 446.31 | 548 | 72 | 1.2 |
| | Nov 2013 | 473 | 26 | 8 | 375 | 6.3 | 27 | 77 | 446.50 | 552 | 105 | 1.8 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 660 | 10.7 | 1086.30 | 10301 | 365 | 439.05 | 1388.0 | 246.5 | 87 | 373.5 |
| H | Jan 2011 | 540 | 8.8 | 1091.73 | 10765 | 463 | 446.84 | 1103.0 | 200.9 | 69 | 372.4 |
| I | Feb 2011 | 635 | 11.4 | 1095.78 | 11117 | 353 | 447.78 | 1414.0 | 244.7 | 88 | 385.7 |
| S | Mar 2011 | 1006 | 16.4 | 1096.39 | 11170 | 54 | 449.79 | 1232.0 | 398.2 | 75 | 395.8 |
| T | Apr 2011 | 1078 | 18.1 | 1095.76 | 11115 | -55 | 449.53 | 1157.0 | 430.9 | 70 | 399.6 |
| O | May 2011 | 1001 | 16.3 | 1097.90 | 11304 | 189 | 452.71 | 1468.0 | 394.5 | 88 | 393.9 |
| R | Jun 2011 | 939 | 15.8 | 1102.38 | 11705 | 401 | 457.87 | 1661.0 | 372.1 | 100 | 396.2 |
| I | Jul 2011 | 1001 | 16.3 | 1107.07 | 12133 | 429 | 462.21 | 1698.0 | 403.2 | 100 | 402.6 |
| C | Aug 2011 | 831 | 13.5 | 1113.45 | 12730 | 597 | 469.04 | 1721.0 | 338.8 | 100 | 407.7 |
| A | Sep 2011 | 670 | 11.3 | 1116.04 | 12977 | 247 | 473.88 | 1757.0 | 272.0 | 100 | 406.1 |
| | **WY 2011** | **9799** | | | | | | | **3848.4** | | |
| L | Oct 2011 | | 7.2 | 1121.00 | 13456 | 479 | 478.70 | 1311.0 | 178.9 | 74 | |
| * | Nov 2011 | 564 | 9.5 | 1125.82 | 13933 | 477 | 481.61 | 1110.0 | 233.8 | 61 | 414.3 |
| | Dec 2011 | 499 | 8.1 | 1132.79 | 14639 | 707 | 481.93 | 1374.0 | 211.4 | 75 | 424.0 |
| | Jan 2012 | 716 | 11.6 | 1135.57 | 14928 | 289 | 486.53 | 1168.0 | 311.9 | 61 | 435.8 |
| | Feb 2012 | 662 | 11.5 | 1137.20 | 15097 | 169 | 487.61 | 1192.0 | 288.3 | 62 | 435.4 |
| | Mar 2012 | 955 | 15.5 | 1136.01 | 14973 | -124 | 485.91 | 1427.0 | 420.0 | 75 | 439.9 |
| | Apr 2012 | 1098 | 18.5 | 1135.54 | 14925 | -49 | 484.00 | 1539.0 | 484.0 | 81 | 440.8 |
| | May 2012 | 1018 | 16.6 | 1135.99 | 14971 | 46 | 484.04 | 1532.0 | 441.2 | 81 | 433.5 |
| | Jun 2012 | 940 | 15.8 | 1136.93 | 15070 | 99 | 482.94 | 1900.0 | 405.9 | 100 | 431.9 |
| | Jul 2012 | 919 | 14.9 | 1139.34 | 15323 | 253 | 485.10 | 1911.0 | 395.2 | 100 | 430.2 |
| | Aug 2012 | 824 | 13.4 | 1139.04 | 15292 | -31 | 486.32 | 1925.0 | 357.8 | 100 | 434.4 |
| | Sep 2012 | 664 | 11.2 | 1139.29 | 15317 | 25 | 487.44 | 1934.0 | 281.8 | 100 | 424.1 |
| | **WY 2012** | **8858** | | | | | | | **4010.1** | | |
| | Oct 2012 | 398 | 6.5 | 1142.15 | 15621 | 304 | 492.10 | 1784.0 | 164.3 | 91 | 413.0 |
| | Nov 2012 | 664 | 11.2 | 1141.38 | 15538 | -83 | 495.61 | 1779.0 | 286.1 | 91 | 431.1 |
| | Dec 2012 | 528 | 8.6 | 1144.07 | 15827 | 289 | 495.32 | 1536.0 | 223.1 | 78 | 422.1 |
| | Jan 2013 | 695 | 11.3 | 1145.15 | 15945 | 118 | 494.94 | 1545.0 | 301.9 | 78 | 434.3 |
| | Feb 2013 | 702 | 12.6 | 1146.35 | 16076 | 131 | 496.31 | 1330.0 | 313.1 | 67 | 446.1 |
| | Mar 2013 | 1039 | 16.9 | 1142.71 | 15681 | -395 | 492.71 | 1662.0 | 457.3 | 85 | 440.1 |
| | Apr 2013 | 1127 | 18.9 | 1140.65 | 15461 | -220 | 489.11 | 1713.0 | 500.5 | 88 | 443.9 |
| | May 2013 | 1016 | 16.5 | 1140.20 | 15413 | -48 | 488.69 | 1571.6 | 444.1 | 81 | 436.9 |
| | Jun 2013 | 943 | 15.9 | 1140.81 | 15478 | 65 | 486.97 | 1943.0 | 410.6 | 100 | 435.2 |
| | Jul 2013 | 934 | 15.2 | 1142.80 | 15690 | 212 | 488.76 | 1943.0 | 405.3 | 100 | 433.9 |
| | Aug 2013 | 844 | 13.7 | 1144.50 | 15874 | 184 | 490.76 | 1943.0 | 370.4 | 100 | 439.0 |
| | Sep 2013 | 686 | 11.5 | 1144.40 | 15863 | -10 | 492.71 | 1943.0 | 294.8 | 100 | 429.8 |
| | **WY 2013** | **9577** | | | | | | | **4171.5** | | |
| | Oct 2013 | 454 | 7.4 | 1145.50 | 15983 | 119 | 496.32 | 1771.2 | 193.0 | 91 | 425.2 |
| | Nov 2013 | 544 | 9.1 | 1145.73 | 16007 | 25 | 498.63 | 1770.8 | 232.1 | 91 | 426.7 |

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

**Model Run ID: 2113**

**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 553 | 9.0 | 641.21 | 1650 | 84 | 141.87 | 168.3 | 67.8 | 66 | 122.6 |
| H | Jan 2011 | 502 | 8.2 | 641.95 | 1670 | 20 | 140.42 | 153.0 | 63.3 | 60 | 125.9 |
| I | Feb 2011 | 586 | 10.5 | 643.01 | 1699 | 29 | 139.78 | 181.1 | 73.6 | 71 | 125.6 |
| S | Mar 2011 | 976 | 15.9 | 643.23 | 1705 | 6 | 138.82 | 204.0 | 123.0 | 80 | 126.0 |
| T | Apr 2011 | 1047 | 17.6 | 643.30 | 1707 | 2 | 141.68 | 227.0 | 131.6 | 89 | 125.7 |
| O | May 2011 | 949 | 15.4 | 644.04 | 1727 | 20 | 142.61 | 255.0 | 120.3 | 100 | 126.8 |
| R | Jun 2011 | 954 | 16.0 | 642.27 | 1679 | -48 | 140.41 | 249.9 | 120.6 | 98 | 126.4 |
| I | Jul 2011 | 943 | 15.3 | 643.11 | 1702 | 23 | 143.18 | 255.0 | 119.3 | 100 | 126.5 |
| C | Aug 2011 | 822 | 13.4 | 642.38 | 1682 | -20 | 140.95 | 255.0 | 103.5 | 100 | 125.9 |
| A | Sep 2011 | 717 | 12.1 | 639.73 | 1610 | -72 | 137.99 | 255.0 | 90.2 | 100 | 125.8 |
| | **WY 2011** | **9446** | | | | | | | **1182.3** | | |
| L | Oct 2011 | 611 | 9.9 | 633.03 | 1435 | -175 | 133.41 | 181.1 | 74.4 | 71 | 121.8 |
| * | Nov 2011 | 466 | 7.8 | 635.99 | 1511 | 76 | 134.28 | 170.9 | 57.0 | 67 | 122.2 |
| | Dec 2011 | 405 | 6.6 | 638.70 | 1583 | 71 | 132.40 | 178.5 | 49.9 | 70 | 123.2 |
| | Jan 2012 | 614 | 10.0 | 641.50 | 1658 | 75 | 135.54 | 170.9 | 76.4 | 67 | 124.4 |
| | Feb 2012 | 639 | 11.1 | 641.80 | 1666 | 8 | 137.36 | 163.2 | 80.1 | 64 | 125.4 |
| | Mar 2012 | 892 | 14.5 | 643.05 | 1700 | 34 | 135.78 | 242.3 | 111.5 | 95 | 124.9 |
| | Apr 2012 | 1068 | 17.9 | 643.00 | 1699 | -2 | 136.07 | 255.0 | 132.9 | 100 | 124.4 |
| | May 2012 | 985 | 16.0 | 643.00 | 1699 | 0 | 136.04 | 255.0 | 123.1 | 100 | 125.0 |
| | Jun 2012 | 936 | 15.7 | 642.00 | 1671 | -27 | 135.51 | 255.0 | 116.6 | 100 | 124.6 |
| | Jul 2012 | 908 | 14.8 | 641.50 | 1658 | -14 | 134.73 | 255.0 | 112.8 | 100 | 124.2 |
| | Aug 2012 | 796 | 13.0 | 641.50 | 1658 | 0 | 134.46 | 255.0 | 99.2 | 100 | 124.6 |
| | Sep 2012 | 741 | 12.5 | 638.00 | 1564 | -94 | 132.62 | 255.0 | 91.3 | 100 | 123.2 |
| | **WY 2012** | **9062** | | | | | | | **1125.1** | | |
| | Oct 2012 | 579 | 9.4 | 630.49 | 1371 | -193 | 127.85 | 219.3 | 69.1 | 86 | 119.3 |
| | Nov 2012 | 529 | 8.9 | 635.00 | 1486 | 115 | 125.53 | 244.8 | 62.5 | 96 | 118.2 |
| | Dec 2012 | 409 | 6.6 | 638.71 | 1583 | 97 | 130.29 | 229.5 | 50.2 | 90 | 122.8 |
| | Jan 2013 | 586 | 9.5 | 641.80 | 1666 | 83 | 134.09 | 221.9 | 73.1 | 87 | 124.7 |
| | Feb 2013 | 687 | 12.4 | 641.80 | 1666 | 0 | 136.08 | 209.1 | 85.9 | 82 | 125.1 |
| | Mar 2013 | 977 | 15.9 | 643.05 | 1700 | 34 | 135.86 | 239.7 | 121.6 | 94 | 124.5 |
| | Apr 2013 | 1097 | 18.4 | 643.00 | 1699 | -2 | 136.07 | 255.0 | 136.4 | 100 | 124.3 |
| | May 2013 | 984 | 16.0 | 643.00 | 1699 | 0 | 136.04 | 255.0 | 123.0 | 100 | 125.0 |
| | Jun 2013 | 939 | 15.8 | 642.00 | 1671 | -27 | 135.51 | 255.0 | 117.0 | 100 | 124.6 |
| | Jul 2013 | 923 | 15.0 | 641.50 | 1658 | -14 | 134.73 | 255.0 | 114.6 | 100 | 124.1 |
| | Aug 2013 | 817 | 13.3 | 641.50 | 1658 | 0 | 134.46 | 255.0 | 101.6 | 100 | 124.5 |
| | Sep 2013 | 762 | 12.8 | 638.00 | 1564 | -94 | 132.62 | 255.0 | 93.8 | 100 | 123.1 |
| | **WY 2013** | **9289** | | | | | | | **1148.8** | | |
| | Oct 2013 | 572 | 9.3 | 633.00 | 1434 | -130 | 129.17 | 219.3 | 68.9 | 86 | 120.5 |
| | Nov 2013 | 473 | 7.9 | 635.00 | 1486 | 51 | 126.85 | 244.8 | 56.6 | 96 | 119.7 |

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

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**Processed On: 12/9/2011 12:06:42PM**

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
*Managing Water in the West*

## December 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 290 | 4.7 | 448.10 | 582 | 10 | 82.60 | 104.4 | 19.7 | 87 | 67.9 |
| H | Jan 2011 | 391 | 6.4 | 446.40 | 550 | -32 | 80.10 | 97.2 | 26.8 | 81 | 68.6 |
| I | Feb 2011 | 415 | 7.5 | 447.29 | 567 | 17 | 76.83 | 90.0 | 29.3 | 75 | 70.7 |
| S | Mar 2011 | 694 | 11.3 | 448.06 | 581 | 15 | 80.18 | 112.8 | 47.4 | 94 | 68.4 |
| T | Apr 2011 | 786 | 13.2 | 448.54 | 590 | 9 | 82.13 | 120.0 | 54.4 | 100 | 69.1 |
| O | May 2011 | 691 | 11.2 | 448.68 | 593 | 3 | 80.58 | 120.0 | 47.9 | 100 | 69.3 |
| R | Jun 2011 | 708 | 11.9 | 447.73 | 575 | -18 | 81.68 | 114.0 | 49.9 | 95 | 70.4 |
| I | Jul 2011 | 762 | 12.4 | 448.22 | 584 | 9 | 81.72 | 116.4 | 51.6 | 97 | 67.7 |
| C | Aug 2011 | 669 | 10.9 | 448.13 | 583 | -2 | 82.04 | 120.0 | 46.1 | 100 | 68.9 |
| A | Sep 2011 | 538 | 9.0 | 448.28 | 585 | 3 | 82.16 | 120.0 | 39.4 | 100 | 73.2 |
| | **WY 2011** | **6837** | | | | | | | **474.2** | | |
| L | Oct 2011 | 472 | 7.7 | 447.97 | 579 | -6 | 81.92 | 92.4 | 31.5 | 77 | 66.8 |
| * | Nov 2011 | 321 | 5.4 | 447.32 | 567 | -12 | 80.93 | 102.0 | 22.1 | 85 | 69.1 |
| | Dec 2011 | 285 | 4.6 | 445.80 | 539 | -28 | 76.72 | 67.2 | 18.4 | 56 | 64.5 |
| | Jan 2012 | 356 | 5.8 | 447.00 | 561 | 22 | 76.64 | 66.0 | 23.4 | 55 | 65.6 |
| | Feb 2012 | 455 | 7.9 | 447.00 | 561 | 0 | 75.56 | 94.8 | 29.8 | 79 | 65.5 |
| | Mar 2012 | 693 | 11.3 | 447.00 | 561 | 0 | 75.44 | 97.2 | 45.9 | 81 | 66.2 |
| | Apr 2012 | 785 | 13.2 | 448.70 | 593 | 32 | 75.23 | 120.0 | 51.9 | 100 | 66.1 |
| | May 2012 | 697 | 11.3 | 448.70 | 593 | 0 | 76.05 | 120.0 | 46.3 | 100 | 66.5 |
| | Jun 2012 | 684 | 11.5 | 448.70 | 593 | 0 | 76.05 | 120.0 | 45.5 | 100 | 66.5 |
| | Jul 2012 | 745 | 12.1 | 448.00 | 580 | -13 | 75.71 | 120.0 | 49.4 | 100 | 66.3 |
| | Aug 2012 | 633 | 10.3 | 447.50 | 571 | -10 | 75.13 | 120.0 | 41.5 | 100 | 65.6 |
| | Sep 2012 | 548 | 9.2 | 446.81 | 557 | -13 | 74.55 | 120.0 | 35.5 | 100 | 64.9 |
| | **WY 2012** | **6673** | | | | | | | **441.3** | | |
| | Oct 2012 | 440 | 7.1 | 446.31 | 548 | -9 | 74.77 | 102.0 | 28.4 | 85 | 64.6 |
| | Nov 2012 | 383 | 6.4 | 446.50 | 552 | 3 | 74.62 | 102.0 | 24.5 | 85 | 64.1 |
| | Dec 2012 | 281 | 4.6 | 446.50 | 552 | 0 | 74.71 | 102.0 | 17.7 | 85 | 62.8 |
| | 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 | 707 | 11.5 | 446.70 | 555 | 4 | 74.01 | 120.0 | 45.9 | 100 | 64.9 |
| | Apr 2013 | 795 | 13.4 | 448.70 | 593 | 38 | 75.08 | 120.0 | 52.5 | 100 | 66.0 |
| | May 2013 | 702 | 11.4 | 448.70 | 593 | 0 | 76.05 | 120.0 | 46.7 | 100 | 66.5 |
| | Jun 2013 | 675 | 11.3 | 448.70 | 593 | 0 | 76.05 | 120.0 | 44.9 | 100 | 66.5 |
| | Jul 2013 | 729 | 11.9 | 448.00 | 580 | -13 | 75.71 | 120.0 | 48.4 | 100 | 66.3 |
| | Aug 2013 | 624 | 10.2 | 447.50 | 571 | -10 | 75.13 | 120.0 | 40.9 | 100 | 65.5 |
| | Sep 2013 | 529 | 8.9 | 446.81 | 557 | -13 | 74.55 | 120.0 | 34.3 | 100 | 64.8 |
| | **WY 2013** | **6682** | | | | | | | **436.4** | | |
| | Oct 2013 | 442 | 7.2 | 446.31 | 548 | -9 | 74.77 | 102.0 | 28.5 | 85 | 64.6 |
| | Nov 2013 | 375 | 6.3 | 446.50 | 552 | 3 | 74.62 | 102.0 | 24.0 | 85 | 64.1 |

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# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
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## December 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 |
|---|---|---|---|---|---|---|---|
| * | Dec 2010 | 382 | 26 | 8 | 9 | 4 | 4 |
| H | Jan 2011 | 445 | 26 | 8 | 9 | 4 | 4 |
| I | Feb 2011 | 425 | 26 | 12 | 15 | 4 | 3 |
| S | Mar 2011 | 453 | 23 | 21 | 26 | 15 | 4 |
| | **Winter 2011** | **2299** | **156** | **79** | **97** | **48** | **19** |
| T | Apr 2011 | 415 | 65 | 26 | 37 | 21 | 5 |
| O | May 2011 | 520 | 105 | 44 | 66 | 23 | 5 |
| R | Jun 2011 | 634 | 98 | 36 | 61 | 23 | 5 |
| I | Jul 2011 | 708 | | | | | |
| C | Aug 2011 | 706 | 60 | 39 | 44 | 22 | 8 |
| A | Sep 2011 | 442 | 58 | 34 | 41 | 22 | 6 |
| | **Summer 2011** | **3425** | **386** | **179** | **248** | **111** | **30** |
| L | Oct 2011 | 446 | 48 | 28 | 33 | 18 | 5 |
| * | Nov 2011 | 508 | 34 | 11 | 13 | 7 | 2 |
| | Dec 2011 | 526 | 40 | 25 | 30 | 15 | 6 |
| | Jan 2012 | 426 | 54 | 20 | 25 | 13 | 6 |
| | Feb 2012 | 339 | 51 | 18 | 24 | 12 | 5 |
| | Mar 2012 | 339 | 54 | 11 | 15 | 8 | 5 |
| | **Winter 2012** | **2585** | **281** | **113** | **140** | **73** | **29** |
| | Apr 2012 | 444 | 41 | 14 | 21 | 12 | 5 |
| | May 2012 | 467 | 62 | 32 | 48 | 23 | 7 |
| | Jun 2012 | 480 | 67 | 18 | 28 | 19 | 9 |
| | Jul 2012 | 542 | 37 | 29 | 36 | 20 | 10 |
| | Aug 2012 | 346 | 37 | 38 | 45 | 23 | 8 |
| | Sep 2012 | 308 | 36 | 36 | 43 | 22 | 7 |
| | **Summer 2012** | **2586** | **280** | **166** | **221** | **119** | **45** |
| | Oct 2012 | 317 | 37 | 21 | 26 | 14 | 7 |
| | Nov 2012 | 258 | 36 | 12 | 15 | 8 | 6 |
| | Dec 2012 | 343 | 37 | 26 | 33 | 17 | 6 |
| | Jan 2013 | 341 | 37 | 23 | 29 | 15 | 6 |
| | Feb 2013 | 340 | 33 | 16 | 21 | 11 | 5 |
| | Mar 2013 | 254 | 37 | 10 | 14 | 8 | 5 |
| | **Winter 2013** | **1853** | **217** | **108** | **138** | **72** | **35** |
| | Apr 2013 | 381 | 36 | 14 | 21 | 12 | 5 |
| | May 2013 | 425 | 54 | 31 | 48 | 23 | 7 |
| | Jun 2013 | 467 | 71 | 20 | 31 | 22 | 9 |
| | Jul 2013 | 531 | 36 | 35 | 42 | 23 | 10 |
| | Aug 2013 | 456 | 36 | 38 | 45 | 23 | 8 |
| | Sep 2013 | 303 | 35 | 35 | 42 | 21 | 7 |
| | **Summer 2013** | **2259** | **233** | **139** | **188** | **104** | **39** |
| | Oct 2013 | 259 | 36 | 21 | 26 | 14 | 7 |
| | Nov 2013 | 259 | 35 | 12 | 15 | 8 | 6 |

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# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

RECLAMATION
Managing Water in the West

## December 2011 24-Month Study

Most Probable Inflow*

## Flood Control Criteria

## Beginning of Month Conditions

| Date | Flaming George KAF | Blue Mesa KAF | Navajo KAF | Lake Powell KAF | Upper Basin Total KAF | Lake Mead KAF | Total KAF | Flaming George KAF | Blue Mesa KAF | Navajo KAF | Tot or Max Allow KAF | Lake Powell KAF | Lake Mead KAF | Total KAF | BOM Space Required KAF | Mead Sched Rel KAF | Mead FC Rel KAF | Sys Cont MAF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ****PREDICTED SPACE**** | | | | | | | ****CREDITABLE SPACE**** | | | | | | | | | | |
| Dec 2011 | 412 | 194 | 369 | 7637 | 8611 | 13444 | 22056 | 412 | 194 | 369 | 974 | 7637 | 13444 | 22056 | 4580 | 499 | 0 | 38.6 |
| Jan 2012 | 471 | 248 | 383 | 8228 | 9329 | 12738 | 22067 | 471 | 248 | 383 | 1101 | 8228 | 12738 | 22067 | 5350 | 716 | 0 | 38.4 |
| | | | | | | | | ****EFFECTIVE SPACE**** | | | | | | | | | | |
| Jan 2012 | 471 | 248 | 383 | 8228 | 9329 | 12738 | 22067 | 86 | 248 | 300 | 634 | 8228 | 12738 | 21599 | 5350 | 716 | 0 | 38.4 |
| Feb 2012 | 573 | 288 | 396 | 8604 | 9861 | 12449 | 22310 | 189 | 288 | 312 | 788 | 8604 | 12449 | 21842 | 1500 | 662 | 0 | 38.3 |
| Mar 2012 | 666 | 326 | 401 | 8814 | 10207 | 12280 | 22486 | 282 | 326 | 316 | 924 | 8814 | 12280 | 22017 | 1500 | 955 | 0 | 38.0 |
| Apr 2012 | 740 | 330 | 369 | 8908 | 10348 | 12404 | 22752 | 354 | 330 | 282 | 966 | 8908 | 12404 | 22278 | 1500 | 1098 | 0 | 38.0 |
| May 2012 | 742 | 301 | 316 | 9035 | 10393 | 12452 | 22845 | 350 | 301 | 209 | 860 | 9035 | 12452 | 22347 | 1500 | 1018 | 0 | 39.0 |
| Jun 2012 | 679 | 215 | 217 | 8276 | 9387 | 12406 | 21793 | 279 | 210 | 76 | 565 | 8276 | 12406 | 21247 | 1500 | 940 | 0 | 40.6 |
| Jul 2012 | 497 | 41 | 221 | 7184 | 7944 | 12307 | 20251 | 82 | 13 | 29 | 124 | 7184 | 12307 | 19615 | 1500 | 919 | 0 | 40.6 |
| | | | | | | | | ****CREDITABLE SPACE**** | | | | | | | | | | |
| Aug 2012 | 433 | 27 | 248 | 7395 | 8102 | 12054 | 20156 | 433 | 27 | 248 | 707 | 7395 | 12054 | 20156 | 1500 | 824 | 0 | 40.3 |
| Sep 2012 | 464 | 87 | 299 | 7568 | 8419 | 12085 | 20505 | 464 | 87 | 299 | 851 | 7568 | 12085 | 20505 | 2270 | 664 | 0 | 39.9 |
| Oct 2012 | 512 | 152 | 315 | 7721 | 8701 | 12060 | 20761 | 512 | 152 | 315 | 980 | 7721 | 12060 | 20761 | 3040 | 398 | 0 | 39.7 |
| Nov 2012 | 560 | 179 | 317 | 7888 | 8944 | 11756 | 20700 | 560 | 179 | 317 | 1056 | 7888 | 11756 | 20700 | 3810 | 664 | 0 | 39.7 |
| Dec 2012 | 610 | 186 | 322 | 7941 | 9060 | 11839 | 20899 | 610 | 186 | 322 | 1118 | 7941 | 11839 | 20899 | 4580 | 528 | 0 | 39.6 |
| Jan 2013 | 677 | 248 | 333 | 8204 | 9461 | 11550 | 21011 | 677 | 248 | 333 | 1258 | 8204 | 11550 | 21011 | 5350 | 695 | 0 | 39.4 |
| | | | | | | | | ****EFFECTIVE SPACE**** | | | | | | | | | | |
| Jan 2013 | 677 | 248 | 333 | 8204 | 9461 | 11550 | 21011 | 383 | 248 | 242 | 873 | 8204 | 11550 | 20626 | 5350 | 695 | 0 | 39.4 |
| Feb 2013 | 739 | 302 | 344 | 8483 | 9868 | 11432 | 21300 | 443 | 302 | 253 | 998 | 8483 | 11432 | 20913 | 1500 | 702 | 0 | 39.2 |
| Mar 2013 | 787 | 332 | 344 | 8796 | 10259 | 11301 | 21561 | 489 | 332 | 252 | 1073 | 8796 | 11301 | 21170 | 1500 | 1039 | 0 | 38.8 |
| Apr 2013 | 789 | 332 | 297 | 8838 | 10256 | 11696 | 21952 | 487 | 332 | 202 | 1021 | 8838 | 11696 | 21554 | 1500 | 1127 | 0 | 38.6 |
| May 2013 | 751 | 308 | 207 | 8986 | 10253 | 11916 | 22168 | 442 | 308 | 92 | 842 | 8986 | 11916 | 21744 | 1500 | 1016 | 0 | 39.6 |
| Jun 2013 | 645 | 215 | 134 | 8238 | 9232 | 11964 | 21196 | 325 | 215 | -16 | 524 | 8238 | 11964 | 20726 | 1500 | 943 | 0 | 41.2 |
| Jul 2013 | 455 | 35 | 236 | 6986 | 7711 | 11899 | 19610 | 120 | 10 | 35 | 165 | 6986 | 11899 | 19049 | 1500 | 934 | 0 | 41.4 |
| | | | | | | | | ****CREDITABLE SPACE**** | | | | | | | | | | |
| Aug 2013 | 354 | 27 | 256 | 7031 | 7668 | 11687 | 19354 | 354 | 27 | 256 | 637 | 7031 | 11687 | 19354 | 1500 | 844 | 0 | 41.1 |
| Sep 2013 | 371 | 79 | 288 | 7442 | 8179 | 11503 | 19683 | 371 | 79 | 288 | 738 | 7442 | 11503 | 19683 | 2270 | 686 | 0 | 40.7 |
| Oct 2013 | 420 | 147 | 299 | 7599 | 8466 | 11514 | 19979 | 420 | 147 | 299 | 866 | 7599 | 11514 | 19979 | 3040 | 454 | 0 | 40.5 |
| Nov 2013 | 467 | 178 | 296 | 7651 | 8593 | 11394 | 19987 | 467 | 178 | 296 | 942 | 7651 | 11394 | 19987 | 3810 | 544 | 0 | 40.5 |

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