

**April 24-Month Study**  
**Date: April 11, 2013**

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

**Current Reservoir Status**

Reservoir	March Inflow (unregulated) (acre-feet)	Percent of Average (%)	April 9 Midnight Elevation (feet)	Reservoir Storage (acre-feet)
Fontenelle	41,000	78	6473.42	133,000
Flaming Gorge	64,000	63	6020.39	2,993,000
Blue Mesa	23,000	64	7454.76	340,000
Navajo	31,000	34	6022.33	934,000
Powell	362,000	54	3598.16	11,575,000

**Expected Operations**

The operation of Lake Powell and Lake Mead in this April 2013 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 2013 Annual Operating Plan (AOP). Pursuant to the Interim Guidelines, the August 2012 24-Month Study projections of the January 1, 2013, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2013.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2013 is the Upper Elevation Balancing Tier. The April 2013 24-Month Study projects the end of water year elevation at Lake Powell to be 3,584.13 feet and Lake Mead to be 1,104.18 feet. Since the projected end of water year elevation at Lake Powell is below the 2013 Equalization Elevation of 3,646.0 feet and the projected end of water year elevation at Lake Mead is above elevation 1,075.0 feet, Section 6.B.1 of the Interim Guidelines provide for an annual release volume of 8.23 million acre-feet (maf) from Lake Powell during water year 2013.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar year 2013.

Consistent with Section 6.C.1 of the Interim Guidelines, if the August 24-Month study projects the January 1, 2014, Lake Powell elevation to be less than 3,575.0 feet and at or above 3,525.0 feet and the Lake Mead elevation to be at or above 1,025.0 feet, the operational tier for Lake Powell in water year 2014 will be the Mid-Elevation Release Tier and the water year release volume from Lake Powell will be 7.48 maf. This April 2013 24-Month study projects that, with an 8.23 maf annual release pattern in water year 2014, the January 1, 2014, Lake Powell elevation would be 3,573.66 feet and the Lake Mead elevation would be 1,107.60 feet. Therefore, the 2014 Lake Powell operational tier is currently projected to be the Mid-Elevation Release Tier with an annual release volume of 7.48 maf. Based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would result in the Mid-Elevation Release Tier and a 7.48 maf annual release from Lake Powell in 2014 is approximately 65 percent.

The Interim Guidelines are available for download at

<http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The 2013 AOP is available for download at

[http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13\\_final.pdf](http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13_final.pdf)

***Fontenelle Reservoir*** – Inflows to Fontenelle Reservoir for the month of March were 41,000 acre-feet (AF), or 78 percent of average. The reservoir elevation is 6472.9 feet, 38 percent of live capacity and increasing. Inflows are averaging 1,000 cubic feet per second (cfs). Reservoir releases remain at 850 cfs and will likely decrease this spring.

Inflows for the next three months are projected to be below average: with April, May and June forecasted inflow volumes at 70,000 AF (82% of average), 85,000 AF (52% of average), and 175,000 AF (58% of average), respectively. The Colorado Basin River Forecast Center has issued the official water supply forecast for the April through July unregulated inflow volume which is 405,000 af or 56 percent of the 1981-2010 thirty-year average.

The next Fontenelle Working Group meeting is scheduled for April 25, 2013, at 10:00 am at the Seedskaadee National Wildlife Refuge. The Fontenelle Working Group is an open public forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir. The autumn Fontenelle Working Group meeting was held on August 23, 2012 at Joint Powers and Water Board in Green River, Wyoming. Minutes from the meeting are posted on the Working Group webpages.

***Flaming Gorge Reservoir*** – Unregulated inflow into Flaming Gorge Reservoir during the month of March was 64,000 acre-feet (af), or 63 percent of average. The reservoir elevation is 6020.2 feet and increasing. Observed inflows are approximately 1,250 cubic feet per second (cfs).

Forecasts remain below average and Flaming Gorge Dam is in the moderately dry hydrologic classification as outlined in the Record of Decision. Flaming Gorge Dam releases are currently steady at approximately 820 cfs, and are expected to remain at this

level until spring runoff begins sometime in late May or early June. Information on spring releases will be updated throughout the next few months.

The Colorado Basin River Forecast Center has issued the official April water supply forecast for the April through July unregulated inflow volume which is 490,000 af or 50 percent of the 1981-2010 thirty-year average. The spring hydrologic classification would be moderately dry if the May 1 final unregulated inflow forecast into Flaming Gorge Reservoir remains in the range between 428,000 and 779,000 af. If conditions decrease and the May 1 final forecast drops below 428,000 af, the hydrologic condition will be dry. Alternatively, if conditions improve and the May final forecast increases above 779,000 af, the hydrologic classification would be average (below median).

The next Flaming Gorge Working Group meeting is scheduled for April 24, 2013, at 11:00 a.m. at the new Utah Department of Natural Resources building in Vernal, Utah, located at 318 North Vernal Avenue. 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 Ed Vidmar at 801-379-1182.

**Aspinall Unit Reservoirs** – March unregulated inflow into Blue Mesa Reservoir was 23,000 acre-feet or 64 percent of average. On March 10, 2013 the basin snowpack was 71 percent of average; which is a decrease of 9 percent from a month ago. Precipitation during March was 75 percent of average. The current inflow rate into Blue Mesa Reservoir is about 800 cfs while reservoir releases are averaging about 650 cfs. The reservoir elevation is currently at 7454.76 feet, which corresponds to a storage content of about 340,000 acre-feet.

The latest Water Supply Forecast for Water Year 2013 has been issued and the April through July unregulated inflow is forecasted to be at 315,000 acre-feet (47% of average), this is 45,000 acre-feet lower than last month's forecast. If this forecast holds through May 1<sup>st</sup>, the Black Canyon Water Right and Aspinall ROD would call for a one day peak flow of 640 cfs, and 900 cfs respectively. At this time Reclamation plans to continue to operate the Aspinall Unit to meet both the water right and ROD recommendations. Based on this forecast and the combination of meeting water right and ROD this coming spring, Blue Mesa Reservoir is projected to not fill this runoff season. The projected fill is calculated to be about 7466.4 feet, or about 53 feet and 418,000 acre-feet short of top of active conservation pool.

Releases from Crystal are currently set at 850 cfs. The Gunnison Diversion Tunnel is currently diverting about 500 cfs, which results in a river flow below the diversion tunnel of approximately 350 cfs. This lower flow is a result of Reclamation trying to conserve reservoir storage for what is forecasted to be a very dry year.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday, April 25, 2013 starting at 1:00 PM in Reclamation's Grand Junction Office. At this meeting, review of this winter's reservoir operations, and plans for this spring and summer operations will be discussed. These meetings are open forum discussions on the Aspinall Unit reservoir operations with many interested groups participating. Anyone needing further information about these meetings should contact Dan Crabtree in the Grand Junction Area Office at (970) 248-0652.

**Navajo Reservoir** – As a result of a lower river flows in the San Juan River Basin, the Bureau of Reclamation increased the release from Navajo Reservoir from 350 to 500 cubic feet per second (cfs) on Monday, March 25, 2013. 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.

The current San Juan River basin snowpack is 79% of average snow water equivalent (SWE). For the Animas River Basin it is 77%. Precipitation for the month of March in the San Juan River basin was less than 50 percent of average. Observed inflow into Navajo Reservoir during the month of March was 26,000 acre-feet. Modified-unregulated inflow volume was 31,000 af, or 29 percent of average. Currently, the daily observed inflow is averaging about 1600 cfs. NIIP has been diverting 480 cfs for the previous week, but is currently temporarily shut down. The reservoir water surface elevation is at 6022.40 feet, which corresponds to a storage content of about 934,336 acre-feet.

The next public meeting will be held April 23rd, 2013 at 1:00 PM at the Civic Center in Farmington, New Mexico (200 West Arrington Street). At this meeting, a review of forecasted hydrology, and plans for this spring and summer 2013 operations will be discussed. These meetings are open forum discussions on the operation of Navajo Reservoir with many interested groups participating. Anyone interested in the general operation of the reservoir is encouraged to attend. Please contact Ryan Christianson in Reclamation's Durango, Colorado Office at (970) 385-6590 for information about these meetings or the daily operation of Navajo Reservoir.

**Glen Canyon Dam / Lake Powell** –  
**Current Status**

The unregulated inflow volume to Lake Powell in March was 362 thousand acre-feet (kaf) (54% of average). The release volume from Glen Canyon Dam in March was 601 kaf. The end of March elevation and storage of Lake Powell were 3599.0 feet (101 feet from full pool) and 11.65 million acre-feet (maf) (48% of full capacity). The reservoir

elevation will continue to decline until snowmelt and spring runoff begin to fill the reservoir in late spring.

### **Current Operations**

The operating tier for 2013 is the Upper Elevation Balancing Tier, as established in August 2012 and pursuant to the Interim Guidelines. The April 24-Month Study projects the end of water year elevation at Lake Powell to be 3,584.13 feet and Lake Mead to be 1,104.18 feet. Since the projected end of water year elevation at Lake Powell is below the 2013 Equalization Elevation of 3,646.0 feet and the projected end of water year elevation at Lake Mead is above elevation 1,075.0 feet, Section 6.B.1 of the Interim Guidelines provide for an annual release volume of 8.23 maf from Lake Powell during water year 2013. Reclamation will schedule operations at Glen Canyon Dam to achieve as practicably as possible an 8.23 maf annual release volume by September 30, 2013.

Releases from Glen Canyon Dam in April are currently averaging approximately 9,600 cfs with daily fluctuations between approximately 6,500 cfs at nighttime and approximately 11,500 cfs during the daytime and consistent with the Glen Canyon Operating Criteria (Federal Register, Volume 62, No. 41, March 3, 1997). The scheduled release volume for April 2013 is 550 kaf.

In May, the release volume will likely be about 600 kaf, with fluctuations for hydropower between approximately 7,000 cfs in the nighttime and approximately 13,000 cfs in the daytime the mid-morning and evening hours. In addition, to accommodate airborne data collection, steady releases of approximately 8,000 cfs are tentatively planned near the end of May, beginning on or about Saturday May 25<sup>th</sup> and lasting for about one week. In June, the release volume will likely be about 800 kaf with fluctuations between approximately 9,000 cfs and 17,000 cfs.

In addition to daily scheduled fluctuations for power generation, the instantaneous releases from Glen Canyon Dam may also fluctuate to provide 40 MW of system regulation. These instantaneous release adjustments stabilize the electrical generation and transmission system and translate to a range of about 1,100 cfs above or below the hourly scheduled release rate. Typically, fluctuations for system regulation are very short lived and balance out over the hour and do not have noticeable impacts on downstream river flow conditions.

Releases from Glen Canyon Dam can also fluctuate beyond scheduled fluctuations for power generation when called upon as a partner that shares reserve requirements within the electrical generator community (i.e. balancing area). Reserves provide system reliability in the event of an unscheduled outage. Glen Canyon Dam typically maintains 43 MW of reserves (approximately 1,100 cfs). Reserve calls can be maintained for a maximum of 2 hours after which time the generation rate should be returned to the original schedule. If reserves from Glen Canyon Dam are called upon, releases from the dam can exceed scheduled levels and can have a noticeable impact on the river downstream from Glen Canyon Dam. Calls for reserves are fairly infrequent and typically are for much less than 43 MW.

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

The hydrologic forecast for Lake Powell for the April to July water supply season projects that the most probable (median) unregulated inflow volume will be 2.7 maf (38% of average based on the period 1981-2010). The forecast has continued to decrease throughout the winter and spring season. Based on the current forecast, the April 24-Month study projects the end of water year reservoir elevation and storage for Lake Powell will be 3584.1 and 10.30 maf (42% capacity), respectively, which is below the 2013 Equalization Elevation of 3,646 feet. Therefore, consistent with the Interim Guidelines, the annual release volume from Lake Powell during water year 2013 is scheduled to be 8.23 maf. Reclamation will schedule operations at Glen Canyon Dam to achieve as practicably as possible an 8.23 maf annual release volume by September 30, 2013.

Consistent with the Interim Guidelines, if the August 24-Month study projects the January 1, 2014, Lake Powell elevation to be less than 3,575.0 feet and at or above 3,525.0 feet and the Lake Mead elevation to be at or above 1,025.0 feet, the operational tier for Lake Powell in water year 2014 will be the Mid-Elevation Release Tier and the water year release volume from Lake Powell will be 7.48 maf. This April 2013 24-Month study projects that, with an 8.23 maf annual release pattern in water year 2014, the January 1, 2014, Lake Powell elevation would be 3,573.66 feet and the Lake Mead elevation would be 1,107.60 feet. Therefore, the 2014 Lake Powell operational tier is currently projected to be the Mid-Elevation Release Tier with an annual release volume of 7.48 maf. Based on analysis of a range of inflow scenarios, the current probability of realizing an inflow volume that would result in the Mid-Elevation Release Tier and a 7.48 maf annual release from Lake Powell in 2014 is approximately 65 percent.

**Upper Colorado River Basin Hydrology** – Since 2005, the Upper Colorado River Basin has experienced significant year to year hydrologic variability. The unregulated inflow to Lake Powell, which is a good measure of hydrologic conditions in the Colorado River Basin, has averaged a water year volume of 10.22 maf (94% of average (period 1981-2010)) during the period from 2005 through 2012. The hydrologic variability during this period has been from a low water year unregulated inflow volume of 4.91 maf (45% of average) in water year 2012 to a high water year unregulated inflow volume of 15.97 maf (147% of average) in water year 2011. Based on observed inflows and current forecasts, water year 2013 unregulated inflow is expected to be 4.53 maf (42% of average), which would be the second below-average year in a row.

At the beginning of water year 2013, overall reservoir storage in the Colorado River Basin had increased by approximately 4 maf compared with water year 2005, which was an improvement over the persistent drought conditions of 2000 through 2004. Total reservoir storage in the Colorado River Basin had increased from 29.8 maf (50% of capacity) at the beginning of 2005 to 33.9 maf (57 % of capacity) at the beginning of 2013. However, during this period, total Colorado Basin storage experienced year to year increases and decreases in response to wet and dry hydrology. In addition, conditions in 2013 have been drier than average and given observed inflows and current forecasts, the

projected end of water year 2013 total reservoir storage is approximately 29.1 maf (49% of capacity).

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION

WATER RESOURCES GROUP

ATTENTION UC-430

125 SOUTH STATE STREET, ROOM 6107

SALT LAKE CITY, UT 84138-5571

PHONE 801-524-3709

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

:			Obs		mar	Forecast		Outlook		
:	dec	jan	feb	mar	%Avg	apr	may	jun	apr-jul	%Avg
GLDA3:Lake Powell	201	168	261	362	54%:	500/	800/	1000/	2700/:	38%
GBRW4:Fontenelle	28	23	23	41	78%:	70/	85/	175/	405/:	56%
GRNU1:Flaming Gorge	26	24	30	64	63%:	95/	115/	190/	490/:	50%
BMDC2:Blue Mesa	17.7	15.9	15.7	23	64%:	53/	109/	106/	315/:	47%
MPSC2:Morrow Point	18.4	16.7	16.5	24	60%:	58/	117/	111/	335/:	45%
CLSC2:Crystal	22	20	19.8	29	63%:	66/	131/	121/	370/:	44%
TPIC2:Taylor Park	3.1	3.0	2.8	3.5	79%:	6.5/	18/	22/	55/:	56%
VCRC2:Vallecito	3.0	3.4	3.0	4.2	49%:	10/	43/	41/	110/:	57%
NVRN5:Navajo	11.9	14.1	12.5	31	34%:	67/	165/	106/	370/:	50%
LEMC2:Lemon	0.42	0.28	0.39	0.64	40%:	3.5/	13/	11.5/	32/:	58%
MPHC2:McPhee	1.60	2.3	2.1	3.4	16%:	25/	60/	30/	125/:	42%
RBSC2:Ridgway	3.6	2.4	1.78	3.7	65%:	7/	17/	21/	55/:	54%

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

**Fontenelle Reservoir**



	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2012	98	1	60	0	60	6478.72	160
H	May 2012	130	1	61	0	62	6489.92	227
I	Jun 2012	189	2	83	16	99	6502.11	315
S	Jul 2012	92	3	72	3	75	6503.94	329
T	Aug 2012	36	2	68	0	68	6499.56	296
O	Sep 2012	23	2	46	8	54	6495.11	263
<b>WY 2012</b>		<b>825</b>	<b>15</b>	<b>750</b>	<b>94</b>	<b>845</b>		
R	Oct 2012	29	1	25	28	53	6491.56	238
I	Nov 2012	35	1	22	28	51	6489.08	221
C	Dec 2012	28	1	52	0	52	6485.19	196
A	Jan 2013	23	1	53	0	53	6479.94	166
L	Feb 2013	23	0	48	0	48	6475.03	141
*	Mar 2013	41	0	52	0	52	6472.41	129
	Apr 2013	70	1	54	0	54	6475.71	145
	May 2013	85	1	49	0	49	6482.25	180
	Jun 2013	175	2	48	0	48	6500.67	304
	Jul 2013	75	3	49	0	49	6503.67	327
	Aug 2013	42	2	49	0	49	6502.46	318
	Sep 2013	35	2	65	0	65	6498.19	285
<b>WY 2013</b>		<b>660</b>	<b>15</b>	<b>568</b>	<b>56</b>	<b>624</b>		
	Oct 2013	41	1	48	20	68	6494.32	258
	Nov 2013	39	1	65	0	65	6490.29	230
	Dec 2013	32	1	68	0	68	6484.68	194
	Jan 2014	30	1	68	0	68	6477.94	156
	Feb 2014	28	0	61	0	61	6470.71	122
	Mar 2014	53	0	68	0	68	6466.97	107
	Apr 2014	85	1	71	0	71	6470.24	120
	May 2014	164	1	99	6	105	6482.01	178
	Jun 2014	299	2	103	76	179	6499.70	297
	Jul 2014	178	3	101	31	132	6505.27	340
	Aug 2014	77	2	83	0	83	6504.16	331
	Sep 2014	46	2	36	44	80	6499.45	295
<b>WY 2014</b>		<b>1071</b>	<b>15</b>	<b>871</b>	<b>176</b>	<b>1046</b>		
	Oct 2014	49	1	70	0	70	6496.36	272
	Nov 2014	42	1	68	0	68	6492.61	246
	Dec 2014	32	1	70	0	70	6486.74	207
	Jan 2015	30	1	70	0	70	6479.96	166
	Feb 2015	28	0	63	0	63	6472.57	130
	Mar 2015	53	0	70	0	70	6468.39	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Flaming Gorge Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Apr 2012	136	98	5	122	0	122	129	6026.21	3205	331
H	May 2012	153	85	8	159	19	178	125	6023.57	3108	385
I	Jun 2012	188	98	10	87	0	87	125	6023.59	3108	154
S	Jul 2012	93	76	12	84	0	84	124	6023.04	3088	99
T	Aug 2012	29	60	12	80	0	80	123	6022.19	3058	90
O	Sep 2012	19	50	10	68	0	68	122	6021.43	3030	79
<b>WY 2012</b>		<b>990</b>	<b>1010</b>	<b>78</b>	<b>1366</b>	<b>20</b>	<b>1386</b>				<b>2278</b>
R	Oct 2012	24	48	7	52	0	52	122	6021.15	3020	71
I	Nov 2012	39	55	3	49	0	49	122	6021.23	3023	75
C	Dec 2012	25	50	2	70	0	70	121	6020.63	3002	110
A	Jan 2013	24	53	2	74	0	74	120	6020.03	2981	398
L	Feb 2013	30	55	2	67	0	67	119	6019.65	2967	388
*	Mar 2013	64	76	3	53	0	53	120	6020.19	2986	109
	Apr 2013	95	79	5	49	0	49	121	6020.88	3011	49
	May 2013	115	79	7	96	0	96	120	6020.22	2987	96
	Jun 2013	190	63	10	101	0	101	118	6018.94	2942	101
	Jul 2013	90	64	12	50	0	50	118	6018.97	2944	50
	Aug 2013	42	49	12	50	0	50	118	6018.62	2931	50
	Sep 2013	35	65	10	49	0	49	118	6018.80	2937	49
<b>WY 2013</b>		<b>774</b>	<b>737</b>	<b>75</b>	<b>759</b>	<b>0</b>	<b>759</b>				<b>1546</b>
	Oct 2013	45	71	7	50	0	50	119	6019.19	2951	50
	Nov 2013	45	72	3	49	0	49	119	6019.73	2970	49
	Dec 2013	35	71	2	50	0	50	120	6020.23	2988	50
	Jan 2014	40	78	2	50	0	50	121	6020.92	3012	50
	Feb 2014	45	78	2	46	0	46	122	6021.74	3042	46
	Mar 2014	102	117	3	50	0	50	125	6023.44	3103	50
	Apr 2014	134	119	5	49	0	49	127	6025.17	3166	49
	May 2014	245	186	8	104	0	104	130	6027.09	3238	104
	Jun 2014	390	269	10	161	0	161	134	6029.55	3332	161
	Jul 2014	210	164	14	105	0	105	136	6030.70	3376	105
	Aug 2014	89	95	13	105	0	105	135	6030.15	3355	105
	Sep 2014	55	90	11	101	0	101	134	6029.58	3333	101
<b>WY 2014</b>		<b>1434</b>	<b>1410</b>	<b>79</b>	<b>920</b>	<b>0</b>	<b>920</b>				<b>920</b>
	Oct 2014	59	81	7	105	0	105	133	6028.79	3303	105
	Nov 2014	51	77	3	101	0	101	132	6028.09	3276	101
	Dec 2014	35	73	2	105	0	105	130	6027.24	3244	105
	Jan 2015	40	80	2	105	0	105	129	6026.57	3219	105
	Feb 2015	45	80	2	94	0	94	129	6026.15	3203	94
	Mar 2015	102	120	3	105	0	105	129	6026.47	3215	105

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Apr 2012	10	4	9311.81	73
H May 2012	15	8	9316.40	81
I Jun 2012	9	15	9312.87	75
S Jul 2012	6	14	9307.53	66
T Aug 2012	4	12	9302.28	58
O Sep 2012	4	6	9300.80	56
<hr/>				
<b>WY 2012</b>	<b>80</b>	<b>95</b>		
R Oct 2012	4	4	9301.04	57
I Nov 2012	3	3	9301.07	57
C Dec 2012	3	3	9301.09	57
A Jan 2013	3	3	9301.07	57
L Feb 2013	3	3	9301.01	57
* Mar 2013	3	3	9301.27	57
Apr 2013	7	3	9303.74	60
May 2013	18	6	9311.56	72
Jun 2013	22	12	9317.75	83
Jul 2013	9	15	9313.74	76
Aug 2013	6	13	9309.62	69
Sep 2013	5	12	9305.11	62
<hr/>				
<b>WY 2013</b>	<b>85</b>	<b>79</b>		
Oct 2013	5	6	9304.52	62
Nov 2013	5	5	9304.56	62
Dec 2013	5	5	9304.68	62
Jan 2014	4	5	9304.58	62
Feb 2014	4	5	9304.10	61
Mar 2014	4	5	9304.06	61
Apr 2014	9	5	9306.93	65
May 2014	28	10	9318.03	83
Jun 2014	42	24	9327.46	101
Jul 2014	20	24	9325.49	97
Aug 2014	10	24	9318.12	84
Sep 2014	7	20	9310.65	71
<hr/>				
<b>WY 2014</b>	<b>144</b>	<b>135</b>		
Oct 2014	7	14	9305.91	64
Nov 2014	5	6	9305.31	63
Dec 2014	5	6	9304.42	61
Jan 2015	4	6	9303.28	60
Feb 2015	4	6	9301.72	58
Mar 2015	4	6	9300.60	56

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Blue Mesa Reservoir



Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Apr 2012	57	51	1	58	0	58	7483.54	532
H May 2012	74	66	1	71	0	71	7482.82	527
I Jun 2012	45	50	1	93	0	93	7476.82	483
S Jul 2012	30	39	1	90	0	90	7469.29	431
T Aug 2012	28	36	1	79	0	79	7462.48	387
O Sep 2012	19	21	1	67	0	67	7454.82	340
<b>WY 2012</b>	<b>427</b>	<b>442</b>	<b>7</b>	<b>793</b>	<b>0</b>	<b>793</b>		
R Oct 2012	20	20	0	33	0	33	7452.55	327
I Nov 2012	19	19	0	19	0	19	7452.39	326
C Dec 2012	18	18	0	16	0	16	7452.65	328
A Jan 2013	16	16	0	15	0	15	7452.77	328
L Feb 2013	16	16	0	15	0	15	7452.95	329
* Mar 2013	23	23	0	0	0	16	7454.12	336
Apr 2013	53	50	1	48	0	48	7454.37	337
May 2013	109	97	1	55	0	55	7461.28	379
Jun 2013	106	96	1	70	0	70	7465.21	404
Jul 2013	47	54	1	92	0	92	7458.97	365
Aug 2013	31	38	1	90	0	90	7449.87	312
Sep 2013	25	32	1	70	0	70	7442.66	273
<b>WY 2013</b>	<b>483</b>	<b>477</b>	<b>6</b>	<b>522</b>	<b>0</b>	<b>537</b>		
Oct 2013	30	30	0	45	0	45	7439.71	258
Nov 2013	28	28	0	15	0	15	7442.25	271
Dec 2013	26	25	0	15	0	15	7444.24	281
Jan 2014	24	24	0	15	0	15	7446.00	291
Feb 2014	22	23	0	13	0	13	7447.84	301
Mar 2014	36	36	0	16	0	16	7451.39	320
Apr 2014	77	73	1	28	0	28	7459.01	365
May 2014	221	203	1	115	0	115	7472.39	452
Jun 2014	261	243	1	36	0	36	7499.61	658
Jul 2014	117	121	1	93	0	93	7502.78	684
Aug 2014	63	77	1	102	0	102	7499.65	658
Sep 2014	38	51	1	89	0	89	7494.80	619
<b>WY 2014</b>	<b>943</b>	<b>934</b>	<b>7</b>	<b>581</b>	<b>0</b>	<b>581</b>		
Oct 2014	38	46	1	52	0	52	7493.93	612
Nov 2014	31	32	0	23	0	23	7495.03	621
Dec 2014	26	27	0	66	0	66	7490.00	581
Jan 2015	24	26	0	67	0	67	7484.61	540
Feb 2015	22	25	0	60	0	60	7479.80	505
Mar 2015	36	38	0	32	0	32	7480.51	510

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Morrow Point Reservoir



Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
* Apr 2012	63	58	6	64	63	0	63	7157.05	115
H May 2012	80	71	6	76	79	0	79	7154.07	112
I Jun 2012	45	93	1	93	93	0	93	7154.59	113
S Jul 2012	31	90	0	90	89	0	89	7155.86	114
T Aug 2012	28	79	0	80	80	0	80	7154.84	113
O Sep 2012	19	67	0	68	71	0	71	7150.03	109
<b>WY 2012</b>	<b>447</b>	<b>793</b>	<b>21</b>	<b>814</b>	<b>811</b>	<b>0</b>	<b>811</b>		
R Oct 2012	22	33	1	34	40	0	40	7142.80	104
I Nov 2012	20	19	1	20	16	0	16	7148.49	108
C Dec 2012	18	16	1	17	18	0	18	7146.50	106
A Jan 2013	17	15	1	16	17	0	17	7144.75	105
L Feb 2013	17	15	1	15	16	0	16	7144.30	105
* Mar 2013	24	16	1	17	17	0	17	7144.36	105
Apr 2013	58	48	5	53	45	0	45	7153.73	112
May 2013	117	55	8	63	63	0	63	7153.73	112
Jun 2013	111	70	5	75	75	0	75	7153.73	112
Jul 2013	49	92	2	94	94	0	94	7153.73	112
Aug 2013	33	90	2	92	92	0	92	7153.73	112
Sep 2013	27	70	2	72	72	0	72	7153.73	112
<b>WY 2013</b>	<b>512</b>	<b>537</b>	<b>29</b>	<b>567</b>	<b>564</b>	<b>0</b>	<b>564</b>		
Oct 2013	32	45	2	47	47	0	47	7153.73	112
Nov 2013	30	15	2	17	17	0	17	7153.73	112
Dec 2013	28	15	2	17	17	0	17	7153.73	112
Jan 2014	27	15	2	17	17	0	17	7153.73	112
Feb 2014	25	13	3	16	16	0	16	7153.73	112
Mar 2014	40	16	4	20	20	0	20	7153.73	112
Apr 2014	88	28	11	39	39	0	39	7153.73	112
May 2014	247	115	26	141	141	0	141	7153.73	112
Jun 2014	281	36	20	56	56	0	56	7153.73	112
Jul 2014	123	93	6	99	99	0	99	7153.73	112
Aug 2014	67	102	3	105	105	0	105	7153.73	112
Sep 2014	41	89	3	92	92	0	92	7153.73	112
<b>WY 2014</b>	<b>1027</b>	<b>581</b>	<b>85</b>	<b>666</b>	<b>666</b>	<b>0</b>	<b>666</b>		
Oct 2014	41	52	3	55	55	0	55	7153.73	112
Nov 2014	33	23	2	25	25	0	25	7153.73	112
Dec 2014	28	66	2	69	69	0	69	7153.73	112
Jan 2015	27	67	2	69	69	0	69	7153.73	112
Feb 2015	25	60	3	63	63	0	63	7153.73	112
Mar 2015	40	32	4	36	36	0	36	7153.73	112

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*  
Crystal Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Apr 2012	71	63	8	71	71	0	71	6752.10	17	50	23
H	May 2012	86	79	6	84	86	0	86	6745.87	15	65	24
I	Jun 2012	49	93	3	96	97	0	97	6744.24	14	63	37
S	Jul 2012	35	89	4	93	93	0	93	6745.39	15	62	36
T	Aug 2012	32	80	3	84	84	0	84	6743.63	14	52	38
O	Sep 2012	22	71	2	74	63	11	74	6743.29	14	45	33
<b>WY 2012</b>		<b>498</b>	<b>811</b>	<b>51</b>	<b>862</b>	<b>824</b>	<b>38</b>	<b>862</b>			<b>397</b>	<b>497</b>
R	Oct 2012	24	40	3	42	40	0	40	6750.72	16	20	20
I	Nov 2012	23	16	4	19	21	0	21	6746.77	15	1	19
C	Dec 2012	22	18	4	22	22	0	22	6749.11	16	1	20
A	Jan 2013	20	17	4	21	19	2	21	6747.09	15	0	20
L	Feb 2013	20	16	3	19	10	9	19	6745.57	15	0	19
*	Mar 2013	29	17	5	21	22	0	22	6744.50	15	0	23
	Apr 2013	66	45	8	53	51	0	51	6753.04	17	30	21
	May 2013	131	63	14	77	77	0	77	6753.04	17	55	21
	Jun 2013	121	75	10	85	85	0	85	6753.04	17	60	25
	Jul 2013	52	94	3	97	97	0	97	6753.04	17	65	32
	Aug 2013	36	92	3	95	95	0	95	6753.04	17	65	30
	Sep 2013	31	72	4	76	76	0	76	6753.04	17	55	21
<b>WY 2013</b>		<b>576</b>	<b>564</b>	<b>64</b>	<b>627</b>	<b>613</b>	<b>12</b>	<b>625</b>			<b>352</b>	<b>272</b>
	Oct 2013	36	47	5	52	52	0	52	6753.04	17	30	22
	Nov 2013	34	17	4	21	21	0	21	6753.04	17	0	21
	Dec 2013	32	17	5	22	22	0	22	6753.04	17	0	22
	Jan 2014	31	17	5	22	22	0	22	6753.04	17	0	22
	Feb 2014	29	16	4	19	19	0	19	6753.04	17	0	19
	Mar 2014	46	20	6	26	26	0	26	6753.04	17	5	21
	Apr 2014	101	39	12	51	51	0	51	6753.04	17	30	21
	May 2014	281	141	34	175	134	41	175	6753.04	17	55	120
	Jun 2014	315	56	34	90	90	0	90	6753.04	17	60	30
	Jul 2014	138	99	14	114	114	0	114	6753.04	17	65	49
	Aug 2014	75	105	8	114	114	0	114	6753.04	17	65	49
	Sep 2014	47	92	6	98	98	0	98	6753.04	17	55	43
<b>WY 2014</b>		<b>1165</b>	<b>666</b>	<b>138</b>	<b>803</b>	<b>762</b>	<b>41</b>	<b>803</b>			<b>365</b>	<b>438</b>
	Oct 2014	47	55	6	61	61	0	61	6753.04	17	30	31
	Nov 2014	38	25	5	30	30	0	30	6753.04	17	0	30
	Dec 2014	32	69	5	73	73	0	73	6753.04	17	0	73
	Jan 2015	31	69	5	74	74	0	74	6753.04	17	0	74
	Feb 2015	29	63	4	66	66	0	66	6753.04	17	0	66
	Mar 2015	46	36	6	42	42	0	42	6753.04	17	5	37

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Apr 2012	36	3	7661.80	117
H	May 2012	42	35	7664.36	124
I	Jun 2012	17	36	7656.80	104
S	Jul 2012	11	35	7647.02	80
T	Aug 2012	7	33	7634.93	54
O	Sep 2012	4	22	7624.48	36
<b>WY 2012</b>		<b>168</b>	<b>188</b>		
R	Oct 2012	3	3	7624.51	36
I	Nov 2012	3	1	7625.69	37
C	Dec 2012	3	0	7627.33	40
A	Jan 2013	3	0	7629.10	43
L	Feb 2013	3	0	7630.60	46
*	Mar 2013	4	0	7632.64	50
	Apr 2013	10	0	7637.47	59
	May 2013	43	24	7646.08	78
	Jun 2013	41	39	7646.68	79
	Jul 2013	16	36	7637.20	58
	Aug 2013	11	31	7626.04	38
	Sep 2013	11	18	7621.42	31
<b>WY 2013</b>		<b>152</b>	<b>154</b>		
	Oct 2013	12	7	7624.27	35
	Nov 2013	8	0	7628.75	43
	Dec 2013	6	0	7632.10	49
	Jan 2014	5	0	7634.75	54
	Feb 2014	5	0	7636.95	58
	Mar 2014	9	0	7640.84	66
	Apr 2014	23	1	7650.39	88
	May 2014	71	34	7664.79	125
	Jun 2014	70	70	7664.75	125
	Jul 2014	29	42	7659.81	112
	Aug 2014	20	38	7652.53	93
	Sep 2014	17	30	7647.32	81
<b>WY 2014</b>		<b>276</b>	<b>223</b>		
	Oct 2014	16	20	7645.35	76
	Nov 2014	9	8	7645.51	76
	Dec 2014	6	6	7645.51	76
	Jan 2015	5	5	7645.47	76
	Feb 2015	5	5	7645.51	76
	Mar 2015	9	3	7647.81	82

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*  
Navajo Reservoir



	Date	Mod Unreg Inflow (1000 Ac-Ft)	Azetea Tunnel Div (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	NIIP Diversion (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Farmington Flow (1000 Ac-Ft)
*	Apr 2012	149	18	98	2	27	30	6059.88	1346	97
H	May 2012	131	17	105	4	34	110	6056.40	1303	177
I	Jun 2012	20	4	35	4	46	42	6051.70	1246	57
S	Jul 2012	10	1	33	4	44	52	6045.91	1178	60
T	Aug 2012	0	0	26	3	45	55	6038.86	1101	47
O	Sep 2012	-2	0	17	2	22	58	6032.62	1035	56
<b>WY 2012</b>		<b>523</b>	<b>53</b>	<b>490</b>	<b>26</b>	<b>236</b>	<b>521</b>			<b>814</b>
R	Oct 2012	3	0	3	1	11	40	6027.78	986	43
I	Nov 2012	9	0	7	1	0	23	6026.11	970	32
C	Dec 2012	12	0	9	0	0	22	6024.73	957	30
A	Jan 2013	14	0	11	0	0	20	6023.77	947	
L	Feb 2013	13	0	10	1	0	19	6022.74	938	36
*	Mar 2013	31	1	26	1	6	22	6022.39	934	33
	Apr 2013	67	11	46	2	17	27	6022.39	934	27
	May 2013	165	24	122	3	31	22	6029.27	1001	22
	Jun 2013	106	8	96	3	46	21	6031.84	1027	21
	Jul 2013	32	1	51	3	51	25	6029.05	999	25
	Aug 2013	31	0	51	3	43	38	6025.71	966	38
	Sep 2013	27	0	34	2	24	33	6023.00	940	33
<b>WY 2013</b>		<b>510</b>	<b>46</b>	<b>466</b>	<b>21</b>	<b>229</b>	<b>311</b>			<b>339</b>
	Oct 2013	35	0	31	1	6	30	6022.28	933	30
	Nov 2013	29	0	22	1	0	26	6021.75	928	26
	Dec 2013	25	0	19	0	0	31	6020.46	916	31
	Jan 2014	22	0	17	0	0	31	6018.91	902	31
	Feb 2014	30	0	26	1	0	28	6018.62	899	28
	Mar 2014	92	2	82	1	2	27	6024.08	950	27
	Apr 2014	170	14	134	2	18	21	6033.50	1044	21
	May 2014	277	37	203	3	33	30	6046.14	1181	30
	Jun 2014	224	32	191	4	48	95	6049.91	1224	95
	Jul 2014	66	6	72	4	53	22	6049.33	1218	22
	Aug 2014	45	2	61	3	46	25	6048.24	1205	25
	Sep 2014	43	0	55	3	26	30	6047.98	1202	30
<b>WY 2014</b>		<b>1059</b>	<b>94</b>	<b>912</b>	<b>23</b>	<b>232</b>	<b>396</b>			<b>396</b>
	Oct 2014	47	1	50	2	7	31	6048.92	1213	31
	Nov 2014	34	1	32	1	0	30	6049.06	1215	30
	Dec 2014	25	0	25	1	0	31	6048.51	1208	31
	Jan 2015	22	0	22	1	0	31	6047.69	1199	31
	Feb 2015	30	0	30	1	0	28	6047.83	1200	28
	Mar 2015	92	2	84	1	2	31	6052.10	1250	31

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry (1000 Ac-Ft)
*	Apr 2012	764	689	29	606	0	606	3635.76	5294	15508	612
H	May 2012	792	770	35	601	0	601	3636.83	5304	15632	606
I	Jun 2012	353	398	54	709	0	709	3633.90	5277	15294	712
S	Jul 2012	154	285	62	886	0	886	3628.45	5228	14680	892
T	Aug 2012	101	289	60	800	0	800	3623.62	5186	14151	810
O	Sep 2012	104	296	54	481	0	481	3621.56	5168	13929	478
<b>WY 2012</b>		<b>4908</b>	<b>5964</b>	<b>455</b>	<b>9466</b>	<b>0</b>	<b>9466</b>				<b>9527</b>
R	Oct 2012	190	294	37	498	0	498	3619.46	5150	13706	495
I	Nov 2012	246	273	35	652	78	730	3615.10	5114	13251	736
C	Dec 2012	201	247	27	801	0	801	3609.82	5071	12713	800
A	Jan 2013	168	230	8	801	0	801	3604.42	5028	12177	801
L	Feb 2013	262	300	9	600	0	600	3601.47	5005	11891	595
*	Mar 2013	362	357	14	601	0	601	3598.96	4986	11651	594
	Apr 2013	500	427	23	550	0	550	3597.54	4975	11516	550
	May 2013	800	638	26	600	0	600	3597.65	4976	11527	600
	Jun 2013	1000	843	41	800	0	800	3597.67	4976	11529	800
	Jul 2013	400	450	49	849	0	849	3593.22	4943	11115	849
	Aug 2013	200	318	47	800	0	800	3587.82	4904	10624	800
	Sep 2013	200	290	42	600	0	600	3584.13	4878	10298	600
<b>WY 2013</b>		<b>4530</b>	<b>4666</b>	<b>358</b>	<b>8152</b>	<b>78</b>	<b>8230</b>				<b>8220</b>
	Oct 2013	338	361	29	480	0	480	3582.56	4867	10161	480
	Nov 2013	393	380	28	500	0	500	3580.99	4856	10024	500
	Dec 2013	363	373	22	600	0	600	3578.29	4837	9794	600
	Jan 2014	361	371	6	800	0	800	3573.47	4805	9391	800
	Feb 2014	393	382	7	600	0	600	3570.93	4788	9183	600
	Mar 2014	665	533	11	600	0	600	3570.03	4782	9110	600
	Apr 2014	1056	803	18	500	0	500	3573.26	4804	9374	500
	May 2014	2343	1918	23	600	0	600	3587.24	4900	10573	600
	Jun 2014	2666	2164	40	600	0	600	3602.44	5012	11984	600
	Jul 2014	1091	977	51	800	0	800	3603.63	5022	12100	800
	Aug 2014	500	582	51	800	0	800	3601.05	5002	11851	800
	Sep 2014	408	518	47	600	0	600	3599.81	4992	11732	600
<b>WY 2014</b>		<b>10576</b>	<b>9362</b>	<b>333</b>	<b>7480</b>	<b>0</b>	<b>7480</b>				<b>7480</b>
	Oct 2014	512	563	32	600	0	600	3599.14	4987	11668	600
	Nov 2014	473	512	31	600	0	600	3597.97	4978	11558	600
	Dec 2014	363	479	24	800	0	800	3594.56	4953	11238	800
	Jan 2015	361	477	7	800	0	800	3591.23	4928	10932	800
	Feb 2015	393	478	8	600	0	600	3589.90	4919	10812	600
	Mar 2015	665	606	13	600	0	600	3589.83	4918	10805	600

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Glen Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Apr 2012	606	46	46	1170	19.7	20	1163	909	1123.93	13986
H	May 2012	601	16	52	1008	16.4	30	1007	880	1119.38	13541
I	Jun 2012	709	7	62	989	16.6	28	989	858	1115.84	13200
S	Jul 2012	886	69	77	841	13.7	29	819	858	1115.92	13207
T	Aug 2012	800	169	82	798	13.0	24	793	862	1116.56	13269
O	Sep 2012	481	97	67	635	10.7	18	634	854	1115.16	13135
<b>WY 2012</b>		<b>9466</b>	<b>730</b>	<b>638</b>	<b>9421</b>		<b>227</b>	<b>9356</b>			
R	Oct 2012	498	53	49	346	5.6	20	331	862	1116.50	13263
I	Nov 2012	730	60	49	650	10.9	14	649	867	1117.24	13334
C	Dec 2012	801	50	43	476	7.7	11	432	886	1120.36	13636
A	Jan 2013	801	55	35	609	9.9	8	591	899	1122.32	13828
L	Feb 2013	600	69	32	646	11.6	8	644	898	1122.14	13810
*	Mar 2013	601	67	36	987	16.1	13	986	875	1118.59	13465
	Apr 2013	550	80	44	1105	18.6	16	1105	843	1113.35	12963
	May 2013	600	64	50	1016	16.5	26	1016	816	1109.07	12560
	Jun 2013	800	33	59	949	16.0	25	949	804	1107.03	12372
	Jul 2013	849	55	73	923	15.0	30	923	797	1105.77	12257
	Aug 2013	800	109	78	854	13.9	25	854	794	1105.28	12212
	Sep 2013	600	81	64	703	11.8	21	703	787	1104.18	12112
<b>WY 2013</b>		<b>8230</b>	<b>775</b>	<b>612</b>	<b>9264</b>		<b>219</b>	<b>9181</b>			
	Oct 2013	480	54	46	513	8.3	19	513	785	1103.72	12070
	Nov 2013	500	44	46	617	10.4	26	617	776	1102.23	11935
	Dec 2013	600	99	40	536	8.7	21	536	782	1103.29	12031
	Jan 2014	800	81	33	704	11.5	16	704	790	1104.62	12152
	Feb 2014	600	94	30	674	12.1	18	674	788	1104.34	12126
	Mar 2014	600	77	33	1023	16.6	21	1023	764	1100.16	11750
	Apr 2014	500	80	41	1109	18.6	14	1109	728	1093.96	11202
	May 2014	600	64	46	997	16.2	24	997	704	1089.61	10823
	Jun 2014	600	33	55	932	15.7	22	932	681	1085.48	10470
	Jul 2014	800	55	68	855	13.9	28	855	675	1084.40	10379
	Aug 2014	800	109	72	820	13.3	23	820	674	1084.34	10374
	Sep 2014	600	81	59	625	10.5	19	625	673	1084.10	10354
<b>WY 2014</b>		<b>7480</b>	<b>870</b>	<b>567</b>	<b>9405</b>		<b>251</b>	<b>9405</b>			
	Oct 2014	600	54	43	455	7.4	17	455	681	1085.65	10484
	Nov 2014	600	44	43	598	10.0	23	598	680	1085.42	10465
	Dec 2014	800	99	37	485	7.9	18	485	702	1089.36	10802
	Jan 2015	800	81	31	717	11.7	16	717	709	1090.63	10911
	Feb 2015	600	94	28	687	12.4	18	687	707	1090.20	10874
	Mar 2015	600	77	32	1036	16.8	22	1036	682	1085.68	10487

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Davis Dam - Lake Mohave



	Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
*	Apr 2012	1170	-24	17	1091	0	1091	18.3	643.35	1708
H	May 2012	1008	-14	22	980	0	980	15.9	643.06	1700
I	Jun 2012	989	-19	25	952	0	952	16.0	642.80	1693
S	Jul 2012	841	-9	25	805	0	805	13.1	642.89	1696
T	Aug 2012	798	-11	23	744	0	744	12.1	643.63	1716
O	Sep 2012	635	-5	18	723	0	723	12.1	639.55	1605
<b>WY 2012</b>		<b>9421</b>	<b>-177</b>	<b>197</b>	<b>9051</b>	<b>0</b>	<b>9051</b>			
R	Oct 2012	346	-3	14	556	0	556	9.0	630.75	1377
I	Nov 2012	650	-11	10	499	0	499	8.4	635.82	1507
C	Dec 2012	476	-6	9	395	0	395	6.4	638.30	1572
A	Jan 2013	609	-11	10	510	0	510	8.3	641.20	1650
L	Feb 2013	646	-12	10	609	0	609	11.0	641.78	1665
*	Mar 2013	987	-11	13	956	0	956	15.5	642.06	1673
	Apr 2013	1105	-15	17	1048	0	1048	17.6	643.00	1699
	May 2013	1016	-14	22	980	0	980	15.9	643.00	1699
	Jun 2013	949	-12	25	939	0	939	15.8	642.00	1671
	Jul 2013	923	-5	25	906	0	906	14.7	641.50	1658
	Aug 2013	854	-8	23	823	0	823	13.4	641.50	1658
	Sep 2013	703	-1	18	777	0	777	13.1	638.00	1564
<b>WY 2013</b>		<b>9264</b>	<b>-110</b>	<b>196</b>	<b>8998</b>	<b>0</b>	<b>8998</b>			
	Oct 2013	513	0	15	628	0	628	10.2	633.00	1434
	Nov 2013	617	-16	10	539	0	539	9.1	635.00	1486
	Dec 2013	536	-17	9	412	0	412	6.7	638.71	1583
	Jan 2014	704	-16	10	596	0	596	9.7	641.80	1666
	Feb 2014	674	-8	10	656	0	656	11.8	641.80	1666
	Mar 2014	1023	-16	13	959	0	959	15.6	643.05	1700
	Apr 2014	1109	-15	17	1079	0	1079	18.1	643.00	1699
	May 2014	997	-14	22	961	0	961	15.6	643.00	1699
	Jun 2014	932	-12	25	922	0	922	15.5	642.00	1671
	Jul 2014	855	-5	25	839	0	839	13.6	641.50	1658
	Aug 2014	820	-8	23	789	0	789	12.8	641.50	1658
	Sep 2014	625	-1	18	699	0	699	11.7	638.00	1564
<b>WY 2014</b>		<b>9405</b>	<b>-129</b>	<b>197</b>	<b>9079</b>	<b>0</b>	<b>9079</b>			
	Oct 2014	455	0	15	569	0	569	9.3	633.00	1434
	Nov 2014	598	-16	10	520	0	520	8.7	635.00	1486
	Dec 2014	485	-17	9	361	0	361	5.9	638.71	1583
	Jan 2015	717	-16	10	609	0	609	9.9	641.80	1666
	Feb 2015	687	-8	10	669	0	669	12.0	641.80	1666
	Mar 2015	1036	-16	13	973	0	973	15.8	643.05	1700

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Parker Dam - Lake Havasu



Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
* Apr 2012	1091	24	11	785	13.2	97	180	449.13	602	183	3.1
H May 2012	980	26	13	709	11.5	100	179	448.81	596	99	1.6
I Jun 2012	952	10	15	719	12.1	97	130	448.23	584	103	1.7
S Jul 2012	805	46	17	675	11.0	101	34	448.91	598	124	2.0
T Aug 2012	744	26	17	568	9.2	100	85	448.38	587	97	1.6
O Sep 2012	723	31	15	548	9.2	74	137	446.98	561	90	1.5
<b>WY 2012</b>	<b>9051</b>	<b>290</b>	<b>140</b>	<b>6652</b>		<b>723</b>	<b>1763</b>			<b>1435</b>	
R Oct 2012	556	34	12	482	7.8	14	32	449.31	606	70	1.1
I Nov 2012	499	27	9	348	5.9	14	174	448.06	581	88	1.5
C Dec 2012	395	21	7	289	4.7	15	132	446.41	550	132	2.2
A Jan 2013	510	17	6	352	5.7	57	80	448.01	580	143	2.3
L Feb 2013	609	5	8	444	8.0	7	147	448.13	583	158	2.8
* Mar 2013	956	9	9	680	11.1	98	180	447.58	572	192	3.1
Apr 2013	1048	21	11	781	13.1	87	173	448.00	580	212	3.6
May 2013	980	20	13	688	11.2	94	184	448.50	589	111	1.8
Jun 2013	939	15	16	693	11.7	96	131	448.70	593	109	1.8
Jul 2013	906	25	17	724	11.8	99	91	448.00	580	111	1.8
Aug 2013	823	24	17	639	10.4	99	89	447.50	571	105	1.7
Sep 2013	777	23	15	560	9.4	96	133	446.81	557	102	1.7
<b>WY 2013</b>	<b>8998</b>	<b>241</b>	<b>140</b>	<b>6681</b>		<b>776</b>	<b>1545</b>			<b>1533</b>	
Oct 2013	628	26	12	453	7.4	47	143	446.31	548	65	1.1
Nov 2013	539	32	8	378	6.4	52	123	446.50	552	99	1.7
Dec 2013	412	26	6	277	4.5	53	97	446.50	552	105	1.7
Jan 2014	596	16	6	335	5.5	89	176	446.50	552	125	2.0
Feb 2014	656	10	8	445	8.0	79	127	446.50	552	156	2.8
Mar 2014	959	17	9	691	11.2	89	175	446.70	555	201	3.3
Apr 2014	1079	21	11	788	13.2	86	169	448.70	593	212	3.6
May 2014	961	20	13	694	11.3	89	173	448.70	593	111	1.8
Jun 2014	922	15	16	685	11.5	86	137	448.70	593	109	1.8
Jul 2014	839	25	17	719	11.7	89	38	448.00	580	111	1.8
Aug 2014	789	24	17	635	10.3	89	70	447.50	571	105	1.7
Sep 2014	699	23	15	549	9.2	60	101	446.81	557	102	1.7
<b>WY 2014</b>	<b>9079</b>	<b>256</b>	<b>139</b>	<b>6650</b>		<b>908</b>	<b>1531</b>			<b>1500</b>	
Oct 2014	569	26	12	447	7.3	15	124	446.31	548	65	1.1
Nov 2014	520	32	8	372	6.3	15	147	446.50	552	99	1.7
Dec 2014	361	26	6	269	4.4	15	92	446.50	552	105	1.7
Jan 2015	609	16	6	348	5.7	89	176	446.50	552	125	2.0
Feb 2015	669	10	8	458	8.3	79	127	446.50	552	156	2.8
Mar 2015	973	17	9	704	11.5	89	175	446.70	555	201	3.3

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Apr 2012	1170	19.7	1123.93	13986	-548	475.07	1164.0	505.3	62	432.0
H	May 2012	1008	16.4	1119.38	13541	-445	471.90	1050.0	429.0	56	425.4
I	Jun 2012	989	16.6	1115.84	13200	-341	470.21	1829.0	414.2	100	418.8
S	Jul 2012	841	13.7	1115.92	13207	8	471.23	1374.0	349.7	76	415.6
T	Aug 2012	798	13.0	1116.56	13269	61	471.53	1809.0	331.4	100	415.2
O	Sep 2012	635	10.7	1115.16	13135	-134	473.98	1809.0	261.9	100	412.2
<b>WY 2012</b>		<b>9421</b>							<b>3985.6</b>		
R	Oct 2012	346	5.6	1116.50	13263	128	476.50	1051.0	141.3	58	409.0
I	Nov 2012	650	10.9	1117.24	13334	71	473.22	1051.0	276.3	58	424.7
C	Dec 2012	476	7.7	1120.36	13636	302	475.06	1520.0	198.5	84	417.3
A	Jan 2013	609	9.9	1122.32	13828	192	474.10	1062.0	259.8	59	426.6
L	Feb 2013	646	11.6	1122.14	13810	-18	475.07	1072.0	276.4	59	427.6
*	Mar 2013	987	16.1	1118.59	13465	-346	472.93	1073.0	425.6	59	431.1
	Apr 2013	1105	18.6	1113.35	12963	-502	467.26	1042.0	487.6	57	441.4
	May 2013	1016	16.5	1109.07	12560	-402	461.63	1090.0	431.7	62	424.9
	Jun 2013	949	16.0	1107.03	12372	-188	454.68	1743.0	389.5	100	410.3
	Jul 2013	923	15.0	1105.77	12257	-116	453.53	1736.0	374.7	100	406.0
	Aug 2013	854	13.9	1105.28	12212	-45	452.82	1733.0	350.5	100	410.3
	Sep 2013	703	11.8	1104.18	12112	-100	453.17	1727.0	282.9	100	402.5
<b>WY 2013</b>		<b>9264</b>							<b>3894.7</b>		
	Oct 2013	513	8.3	1103.72	12070	-42	456.43	1429.0	208.6	83	406.9
	Nov 2013	617	10.4	1102.23	11935	-135	457.39	1380.0	251.5	80	407.8
	Dec 2013	536	8.7	1103.29	12031	96	455.43	1375.0	212.5	79	396.3
	Jan 2014	704	11.5	1104.62	12152	121	458.06	794.0	296.9	45	421.7
	Feb 2014	674	12.1	1104.34	12126	-26	453.60	1429.0	274.4	82	407.2
	Mar 2014	1023	16.6	1100.16	11750	-376	450.72	1450.0	415.5	84	406.3
	Apr 2014	1002	16.8	1093.96	11202	-548	449.28	708.0	438.3	42	437.4
	May 2014	997	16.2	1089.61	10823	-379	441.66	1140.0	402.0	68	403.2
	Jun 2014	932	15.7	1085.48	10470	-353	434.33	1656.0	365.4	100	392.0
	Jul 2014	855	13.9	1084.40	10379	-91	432.23	1653.0	336.1	100	392.9
	Aug 2014	820	13.3	1084.34	10374	-6	431.83	1659.0	320.5	100	390.8
	Sep 2014	625	10.5	1084.10	10354	-20	432.82	1659.0	237.5	100	379.9
<b>WY 2014</b>		<b>9298</b>							<b>3759.2</b>		
	Oct 2014	455	7.4	1085.65	10484	131	437.47	1368.8	175.9	83	387.0
	Nov 2014	598	10.0	1085.42	10465	-19	440.05	1324.1	234.7	80	392.6
	Dec 2014	485	7.9	1089.36	10802	336	440.15	1305.0	190.4	79	392.6
	Jan 2015	717	11.7	1090.63	10911	110	444.14	750.6	294.8	45	411.1
	Feb 2015	687	12.4	1090.20	10874	-37	439.62	1352.4	272.6	82	396.8
	Mar 2015	1036	16.8	1085.68	10487	-387	436.50	1390.5	408.9	84	394.8

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Davis Dam - Lake Mohave



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Apr 2012	1091	18.3	643.35	1708	39	142.08	249.9	147.4	98	135.2
H	May 2012	980	15.9	643.06	1700	-8	141.39	252.5	128.9	99	131.5
I	Jun 2012	952	16.0	642.80	1693	-7	140.12	255.0	122.6	100	128.8
S	Jul 2012	805	13.1	642.89	1696	2	143.36	255.0	100.7	100	125.1
T	Aug 2012	744	12.1	643.63	1716	20	142.43	252.5	92.5	99	124.3
O	Sep 2012	723	12.1	639.55	1605	-111	137.86	255.0	96.5	100	133.5
<b>WY 2012</b>		<b>9051</b>							<b>1153.5</b>		
R	Oct 2012	556	9.0	630.75	1377	-228	130.98	206.6	68.5	81	123.3
I	Nov 2012	499	8.4	635.82	1507	130	136.16	168.3	67.9	66	136.0
C	Dec 2012	395	6.4	638.30	1572	65	134.78	183.6	44.1	72	111.7
A	Jan 2013	510	8.3	641.20	1650	78	139.33	163.2	63.2	64	123.8
L	Feb 2013	609	11.0	641.78	1665	16	138.67	153.0	76.8	60	126.1
*	Mar 2013	956	15.5	642.06	1673	8	140.26	196.4	120.2	77	125.8
	Apr 2013	1048	17.6	643.00	1699	26	135.62	252.5	130.0	99	124.1
	May 2013	980	15.9	643.00	1699	0	136.04	255.0	122.5	100	125.0
	Jun 2013	939	15.8	642.00	1671	-27	135.51	255.0	117.0	100	124.6
	Jul 2013	906	14.7	641.50	1658	-14	134.73	255.0	112.6	100	124.2
	Aug 2013	823	13.4	641.50	1658	0	134.46	255.0	102.5	100	124.4
	Sep 2013	777	13.1	638.00	1564	-94	132.62	255.0	95.5	100	123.0
<b>WY 2013</b>		<b>8998</b>							<b>1120.7</b>		
	Oct 2013	628	10.2	633.00	1434	-130	129.33	214.2	75.4	84	120.2
	Nov 2013	539	9.1	635.00	1486	51	127.83	211.7	64.3	83	119.2
	Dec 2013	412	6.7	638.71	1583	97	130.91	209.1	50.6	82	122.7
	Jan 2014	596	9.7	641.80	1666	83	134.46	209.1	74.2	82	124.6
	Feb 2014	656	11.8	641.80	1666	0	136.08	209.1	82.1	82	125.3
	Mar 2014	959	15.6	643.05	1700	34	135.44	255.0	119.5	100	124.6
	Apr 2014	1079	18.1	643.00	1699	-2	136.07	255.0	134.2	100	124.4
	May 2014	961	15.6	643.00	1699	0	136.04	255.0	120.2	100	125.1
	Jun 2014	922	15.5	642.00	1671	-27	135.51	255.0	114.9	100	124.7
	Jul 2014	839	13.6	641.50	1658	-14	134.73	255.0	104.5	100	124.6
	Aug 2014	789	12.8	641.50	1658	0	134.46	255.0	98.4	100	124.6
	Sep 2014	699	11.7	638.00	1564	-94	132.62	255.0	86.3	100	123.4
<b>WY 2014</b>		<b>9079</b>							<b>1124.6</b>		
	Oct 2014	569	9.3	633.00	1434	-130	129.33	214.2	68.6	84	120.5
	Nov 2014	520	8.7	635.00	1486	51	127.83	211.7	62.1	83	119.4
	Dec 2014	361	5.9	638.71	1583	97	130.91	209.1	44.5	82	123.1
	Jan 2015	609	9.9	641.80	1666	83	134.46	209.1	75.8	82	124.5
	Feb 2015	669	12.0	641.80	1666	0	136.08	209.1	83.7	82	125.2
	Mar 2015	973	15.8	643.05	1700	34	135.44	255.0	121.1	100	124.5

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Apr 2012	785	13.2	449.13	602	36	83.37	120.0	54.1	100	69.0
H	May 2012	709	11.5	448.81	596	-6	81.37	111.6	49.6	93	69.9
I	Jun 2012	719	12.1	448.23	584	-11	79.00	120.0	49.7	100	69.1
S	Jul 2012	675	11.0	448.91	598	13	82.94	120.0	46.8	100	69.4
T	Aug 2012	568	9.2	448.38	587	-10	80.54	120.0	39.3	100	69.2
O	Sep 2012	548	9.2	446.98	561	-26	81.05	120.0	37.8	100	69.0
<b>WY 2012</b>		<b>6652</b>							<b>458.2</b>		
R	Oct 2012	482	7.8	449.31	606	44	83.52	96.0	33.3	80	69.0
I	Nov 2012	348	5.9	448.06	581	-24	82.22	92.4	24.1	77	69.2
C	Dec 2012	289	4.7	446.41	550	-31	80.98	103.2	19.5	86	67.5
A	Jan 2013	352	5.7	448.01	580	30	83.56	102.0	24.4	85	69.4
L	Feb 2013	444	8.0	448.13	583	2	80.52	115.2	31.2	96	70.1
*	Mar 2013	680	11.1	447.58	572	-10	81.73	120.0	46.8	100	68.9
	Apr 2013	781	13.1	448.00	580	8	75.85	104.4	52.1	87	66.7
	May 2013	688	11.2	448.50	589	9	75.61	120.0	45.5	100	66.1
	Jun 2013	693	11.7	448.70	593	4	75.95	120.0	46.1	100	66.4
	Jul 2013	724	11.8	448.00	580	-13	75.71	120.0	48.0	100	66.3
	Aug 2013	639	10.4	447.50	571	-10	75.13	120.0	41.9	100	65.6
	Sep 2013	560	9.4	446.81	557	-13	74.55	120.0	36.4	100	64.9
<b>WY 2013</b>		<b>6681</b>							<b>449.2</b>		
	Oct 2013	453	7.4	446.31	548	-9	75.37	90.0	29.5	75	65.2
	Nov 2013	378	6.4	446.50	552	3	75.10	92.4	24.4	77	64.5
	Dec 2013	277	4.5	446.50	552	0	75.32	90.0	17.5	75	63.2
	Jan 2014	335	5.5	446.50	552	0	75.19	92.4	21.5	77	64.0
	Feb 2014	445	8.0	446.50	552	0	75.13	93.6	29.1	78	65.2
	Mar 2014	691	11.2	446.70	555	4	75.42	90.0	45.8	75	66.3
	Apr 2014	788	13.2	448.70	593	38	75.34	114.0	52.2	95	66.3
	May 2014	694	11.3	448.70	593	0	76.05	120.0	46.1	100	66.5
	Jun 2014	685	11.5	448.70	593	0	76.05	120.0	45.6	100	66.5
	Jul 2014	719	11.7	448.00	580	-13	75.71	120.0	47.7	100	66.3
	Aug 2014	635	10.3	447.50	571	-10	75.13	120.0	41.6	100	65.6
	Sep 2014	549	9.2	446.81	557	-13	74.55	120.0	35.7	100	64.9
<b>WY 2014</b>		<b>6650</b>							<b>436.6</b>		
	Oct 2014	447	7.3	446.31	548	-9	74.77	102.0	28.8	85	64.6
	Nov 2014	372	6.3	446.50	552	3	74.62	102.0	23.8	85	64.0
	Dec 2014	269	4.4	446.50	552	0	74.71	102.0	16.9	85	62.6
	Jan 2015	348	5.7	446.50	552	0	74.71	102.0	22.2	85	63.7
	Feb 2015	458	8.3	446.50	552	0	73.92	120.0	29.4	100	64.2
	Mar 2015	704	11.5	446.70	555	4	74.01	120.0	45.7	100	64.9

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## April 2013 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



	Glen Canyon	Flaming Gorge	Blue Mesa	Morrow Point	Crystal Reservoir	Fontenelle Reservoir
Date	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
* Apr 2012	276	47	16	22	14	4
H May 2012	276	61	19	28	17	4
I Jun 2012	324	34	26	33	19	7
S Jul 2012	398	33	24	31	18	6
T Aug 2012	360	31	21	28	16	6
O Sep 2012	214	27	17	25	12	4
<b>Summer 2012</b>	<b>1849</b>	<b>232</b>	<b>123</b>	<b>168</b>	<b>94</b>	<b>31</b>
R Oct 2012	221	20	8	13	6	2
C Dec 2012	346	27	4	6	2	4
A Jan 2013	349	28	4	6	2	4
L Feb 2013	259	25	4	5	1	3
* Mar 2013	258	20	4	5	2	3
<b>Winter 2013</b>	<b>1433</b>	<b>121</b>	<b>23</b>	<b>35</b>	<b>12</b>	<b>15</b>
Apr 2013	216	18	13	16	9	4
May 2013	236	35	15	23	13	4
Jun 2013	314	36	19	27	15	4
Jul 2013	331	18	25	34	17	5
Aug 2013	308	18	24	33	16	5
Sep 2013	230	18	18	26	13	6
<b>Summer 2013</b>	<b>1637</b>	<b>143</b>	<b>113</b>	<b>158</b>	<b>83</b>	<b>27</b>
Oct 2013	183	18	11	17	9	4
Nov 2013	190	18	4	6	4	6
Dec 2013	226	18	4	6	4	5
Jan 2014	299	18	4	6	4	5
Feb 2014	224	16	3	6	3	4
Mar 2014	223	18	4	7	5	4
<b>Winter 2014</b>	<b>1345</b>	<b>107</b>	<b>30</b>	<b>48</b>	<b>28</b>	<b>29</b>
Apr 2014	186	18	7	14	9	5
May 2014	227	38	32	51	23	7
Jun 2014	234	59	10	20	16	9
Jul 2014	318	38	28	36	20	10
Aug 2014	318	38	31	38	20	8
Sep 2014	238	37	27	33	17	3
<b>Summer 2014</b>	<b>1520</b>	<b>229</b>	<b>135</b>	<b>192</b>	<b>104</b>	<b>41</b>
Oct 2014	238	38	15	20	10	6
Nov 2014	237	37	7	9	5	6
Dec 2014	313	38	20	25	13	6
Jan 2015	311	38	20	25	13	5
Feb 2015	233	34	17	23	12	5
Mar 2015	232	38	9	13	7	5
<b>Winter 2015</b>	<b>1331</b>	<b>186</b>	<b>79</b>	<b>101</b>	<b>53</b>	<b>28</b>

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

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



April 2013 24-Month Study

Most Probable Inflow\*

Flood Control Criteria

Beginning of Month Conditions



Date	Flaming	Blue	Lake	Upper Basin	Lake	Total	Total	Flaming	Blue	Tot or Max	Lake	Lake	BOM Space	Mead	Mead	Sys		
	George	Mesa	Navajo	Powell	Total			Mead	George	Mesa	Navajo	Allow	Powell	Mead	Total	Required	Sched Rel	FC Rel
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF	
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Apr 2013	978	493	762	12671	14904	13912	28817	194	51	221	466	12671	13912	27049	1500	1105	0	31.4
May 2013	938	492	762	12806	14997	14414	29412	148	46	202	395	12806	14414	27615	1500	1016	0	31.1
Jun 2013	927	450	695	12795	14867	14817	29684	129	-8	101	221	12795	14817	27833	1500	949	0	31.1
Jul 2013	848	425	669	12793	14735	15005	29740	40	-45	26	20	12793	15005	27818	1500	923	0	30.5
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2013	823	465	697	13207	15192	15120	30313	823	465	697	1985	13207	15120	30313	1500	854	0	29.8
Sep 2013	845	518	730	13698	15790	15165	30956	845	518	730	2093	13698	15165	30956	2270	703	0	29.2
Oct 2013	871	556	756	14024	16208	15265	31473	871	556	756	2184	14024	15265	31473	3040	513	0	28.8
Nov 2013	885	571	763	14161	16381	15307	31688	885	571	763	2220	14161	15307	31688	3810	617	0	28.6
Dec 2013	894	559	768	14298	16518	15442	31960	894	559	768	2220	14298	15442	31960	4580	536	0	28.5
Jan 2014	912	548	780	14528	16769	15346	32115	912	548	780	2241	14528	15346	32115	5350	704	0	28.3
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2014	912	548	780	14528	16769	15346	32115	601	443	471	1515	14528	15346	31389	5350	704	0	28.3
Feb 2014	926	539	794	14931	17190	15225	32416	611	434	485	1530	14931	15225	31686	1500	674	0	28.1
Mar 2014	930	529	797	15139	17396	15251	32647	612	425	487	1523	15139	15251	31914	1500	1023	0	27.8
Apr 2014	884	509	746	15212	17351	15627	32979	560	405	432	1397	15212	15627	32236	1500	1109	0	27.8
May 2014	807	464	652	14948	16872	16175	33047	476	355	319	1149	14948	16175	32273	1500	997	0	29.0
Jun 2014	678	377	515	13749	15320	16554	31873	334	249	146	730	13749	16554	31032	1500	932	0	30.5
Jul 2014	466	171	472	12338	13446	16907	30353	106	24	51	180	12338	16907	29425	1500	855	0	30.6
**** PREDICTED SPACE ****								**** CREDITABLE SPACE ****										
Aug 2014	378	145	478	12222	13223	16998	30221	378	145	478	1002	12222	16998	30221	1500	820	0	30.2
Sep 2014	408	171	491	12471	13542	17003	30545	408	171	491	1070	12471	17003	30545	2270	625	0	29.9
Oct 2014	467	210	494	12590	13761	17023	30785	467	210	494	1171	12590	17023	30785	3040	455	0	29.7
Nov 2014	519	217	483	12654	13874	16893	30766	519	217	483	1220	12654	16893	30766	3810	598	0	29.6
Dec 2014	573	209	481	12764	14027	16912	30938	573	209	481	1263	12764	16912	30938	4580	485	0	29.6
Jan 2015	643	248	488	13084	14464	16575	31039	643	248	488	1379	13084	16575	31039	5350	717	0	29.4
**** PREDICTED SPACE ****								**** EFFECTIVE SPACE ****										
Jan 2015	643	248	488	13084	14464	16575	31039	294	248	408	950	13084	16575	30610	5350	717	0	29.4
Feb 2015	709	289	497	13390	14886	16466	31351	358	289	417	1064	13390	16466	30920	1500	687	0	29.1
Mar 2015	761	325	496	13510	15092	16503	31595	408	325	415	1148	13510	16503	31161	1500	1036	0	28.8

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