

**Date: July 11, 2008**

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

### **Current Status**

	June Inflow (unreg) (acre-feet)	Percent of Normal	Midnight July 10 Elevation	Reservoir Storage (acre-feet)
Fontenelle	224,000	63	6505.35	340,000
Flaming Gorge	277,000	59	6021.61	3,037,000
Blue Mesa	409,000	140	7509.45	741,000
Powell	3,614,000	117	3633.28	15,223,000
Navajo	308,000	120	6062.30	1,377,000

### **Expected Operations**

The operation of Lake Powell and Lake Mead in this 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). The Interim Guidelines are available for download at <http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>

Based on the April 24 Month study and Section 6.B.3 of the Interim Guidelines, the operation of Glen Canyon Dam will be governed by Section 6.A (Equalization Tier) for the remainder of Water Year 2008. Under the Equalization Tier, it is likely that the annual release from Glen Canyon Dam for Water Year 2008 will be greater than 8.23 million acre-feet. The July 24 Month Study projects the annual release to be 8.97 million acre-feet; however, the projected annual release will be updated each month throughout the remainder of the Water Year to achieve the operation specified in Section 6.A.1 of the Interim Guidelines.

**FONTENELLE** – The elevation of Fontenelle Reservoir has risen to 6505.0 feet above sea level, about 1 foot from top of pool, or 98% full. Inflows are approximately 4,000 cfs and the bypass tubes will be opened starting July 7 to avoid spillway use and safely route the inflow to the reservoir. Releases from Fontenelle Reservoir will be increased from powerplant capacity (approximately 1,700cfs) to 4,200 cfs over a period of three days. Releases will be reduced later in July to match the falling limb of the inflow hydrograph and keep the reservoir near full.

The projected April-July inflow to Fontenelle Reservoir is 570,000 acre-feet (66% of normal) based on the July 1 final forecast issued by the Colorado Basin River Forecast

Center. This forecast is 135,000 acre-ft below the April 1 forecast of 705,000 acre-ft (82% of normal), however, the observed runoff has been enough to fill the reservoir.

Open forum discussions on Fontenelle operations take place at the "Fontenelle Reservoir Working Group" meetings. The Working Group is a forum for information exchange between Reclamation and other parties associated with the operation of Fontenelle Reservoir. The public is encouraged to attend and express their concerns and interests with regard to Fontenelle Reservoir operation. The next Working Group meeting is scheduled for August 19, 2008 at 10:00 am at the Wyoming Department of Fish and Game in Green River Wyoming. For more information about the Fontenelle Working Group, contact Ed Vidmar at 801-379-1182.

**FLAMING GORGE** – Flaming Gorge releases reached powerplant capacity on May 24, 2008, and remained at that level until June 15, 2008 when releases were decreased 500 cubic feet per second (cfs) a day to base flow levels. An interim average base flow level of 1,500 cfs/day is currently being released from Flaming Gorge. Releases began fluctuating around the 1,500 cfs average on July 1, 2008, from an off peak low of approximately 1,360 cfs to an afternoon peak of approximately 1,646 cfs.

The Yampa River produced two peaks this year. The first peak reached the stream gage at Green River at Jensen, Utah, on May 24, with a peak flow of 23,100 cfs (10.57 feet). Cold weather decreased runoff and Yampa River flows until early June, when a second peak reached Jensen, Utah, on June 6, 2008 with a peak flow of 24,075 cfs (10.82 feet). The targeted flow of 18,600 cfs or greater for a duration of fourteen days measured at Jensen, Utah, was reached on Sunday, June 8, 2008.

The base flow average target at Jensen, Utah is 1,975 cfs. During the August through November base-flow period, the daily flows should be within  $\pm 40\%$  of the mean base flow. During the December through February base-flow period, the daily flows should be within  $\pm 25\%$  of the mean base flow. Additionally, the mean daily flows should not exceed 3% variation between consecutive days and daily fluctuations at Flaming Gorge should produce no more than a 0.1 meter daily stage change at Jensen, Utah.

June observed unregulated inflow into Flaming Gorge reservoir was 277,000 acre-feet (AF), or 59 percent of average inflow. The July water supply forecast for unregulated inflow to Flaming Gorge during the April through July period decreased to 705,000 af (59 percent of average), down from the June forecasted volume of 785,000 af (66 percent of average).

The projected end of water year elevation of Flaming Gorge Reservoir is 6021.42 feet above sea level (81 percent storage capacity). Based on the hydrologic classification outlined in the Flaming Gorge Record of Decision and the July forecast of April through July unregulated inflow to Flaming Gorge, the hydrologic classification is moderately dry.

The next Flaming Gorge Working Group meeting is scheduled for August 20, 2008 in Vernal Utah. The meeting will be held at 10:00 a.m. at the Western Park Convention Center located at 302 East 200 South in Vernal Utah. For directions, please call 435-789-7396. 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** – June unregulated inflow into Blue Mesa Reservoir was 409,000 acre-feet or 140 percent of average. Hydrologic conditions in the basin had been relatively dry this last month of June. Precipitation during April, May and June was 75, 110 and 45 percent of average respectively. The basin snowpack has for the most part has been totally depleted. The current inflow rate into Blue Mesa Reservoir is about 3,900 cfs while reservoir releases are averaging about 1,400 cfs. For the past few days, reservoir inflows have been slowly decreasing in response to the snowpack melt out. In the next couple of weeks Blue Mesa Reservoir will reach its annual peak. Its present elevation is 7508.26 feet, which corresponds to a storage content of about 731,000 acre-feet.

On July 3, 2008, the NWS River Forecast Center issued an updated April through July runoff forecast. The forecast is for 1,020,000 acre-feet, or 142 percent of normal inflow into Blue Mesa Reservoir. This was a reduction of 100,000 acre-feet from the previous month's forecast. In conjunction with this reduction in runoff forecast and the fact we provided an earlier high peak release, Blue Mesa reservoir should nearly fill this year but will be about 5 or 6 feet short of its full elevation at 7519.4 feet.

Releases from Crystal Dam are currently set at 2000 cfs. The Gunnison Diversion Tunnel started taking water for the new season on March 31, 2008. The current diversion rate in the tunnel is about 750 cfs, which results in a river flow below the diversion tunnel of approximately 1400 cfs. As in years past there seems to be about 100 cfs discrepancy between the different gage readings. These reservoir release rates may change as conditions warrant, primarily as we respond to changes in the river inflows.

The next meeting of the "Aspinall Unit Working Group" will be held on Thursday August 27<sup>th</sup> in the Elk Creek Visitors Center at Blue Mesa Reservoir. Spring and summer operations will be reviewed and future operations 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** – Reclamation begin ramping down from the Spring Peak release of 5,000 cfs starting Thursday, June 19, 2008. A release rate of 500 cfs was achieved by June 25<sup>th</sup> and has been kept steady at that rate until the present time. This release will remain at 500 cubic feet per second (cfs) until changes are required from changes in weather and or river conditions downstream.

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). It is likely that increases in the release will be necessary later in the summer in order to maintain the target base flow. 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 gauged flows throughout the critical habitat area.

On July 3, 2008, the NWS River Forecast Center issued an updated inflow forecast for Navajo Reservoir for the April through July runoff period. This forecast is projecting a volume runoff into the reservoir of 965,000 acre-feet, a decrease of 65,000 acre-feet from the June forecast. This represents a 123 percent of normal runoff for the Upper San Juan River Basin.

Precipitation for the month of June was on the dry side, which averaged 50 percent of average. Unregulated inflow into Navajo Reservoir during the month of June was 308,000 acre-feet, or 120 percent of average. Currently the daily reservoir inflow is averaging about 1,500 cfs and reservoir releases are set at 500 cfs. The reservoir water surface elevation is currently 6062.29 feet, which corresponds to a storage content of about 1,377,000 acre-feet. NIIP diversions are currently set at 600 cfs.

A public meeting on Navajo Reservoir operations will be held on Tuesday, August 26, 2008 at 1:00 p.m. in Farmington, New Mexico. At this meeting, review of last spring and summer reservoir operations, and plans for this fall and winter 2008/2009 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 Pat Page in Reclamation's Durango, Colorado Office at (970) 385-6560 for information about these meetings or the daily operation of Navajo Reservoir.

### **Glen Canyon Dam Operations**

The monthly release volume in July 2008 will be scheduled to be 865,000 acre feet. For the first two weeks of July, weekday releases will average about 13,800 cfs with afternoon peaks to about 17,500 cfs and off peak lows to about 9,500 cfs. Saturday and Sunday releases will average about 13,000 cfs with afternoon peaks to about 17,250 cfs and off peak lows to about 9,500 cfs. After July 14<sup>th</sup>, weekday releases will average about 14,500 cfs with afternoon peaks to about 18,000 cfs and morning lows to about 10,000 cfs.

Monthly releases are being managed to prepare for a steady flow experiment to be conducted in September and October of 2008. The release volume for August will be adjusted in the range from 840 KAF to 890 KAF in order to target a release volume of 700 KAF for September which would result in steady flows of approximately 12,500 cfs. The release volume for September may be adjusted if necessary to achieve a projected Lake Mead elevation of 1105 feet above sea level by the end of water year 2008. The

release volume for October will be adjusted to match the steady flow conditions that occur in September.

Releases from Glen Canyon Dam for the remainder of water year 2008 will be governed by the Equalization Tier of the Interim Guidelines for the Operation of Lake Powell and Lake Mead (Interim Guidelines). Under the Equalization Tier, the water year annual release volume can be above 8.23 million acre-feet (maf). For the June 2008 24-Month Study, the controlling Equalization objective for water year 2008 is an end of water year Lake Mead elevation of 1,105 feet above sea level. To achieve this objective, the water year annual release volume from Glen Canyon Dam will be controlled as practicable as possible to achieve an end of water year elevation at Lake Mead of 1105. The June 2008 24-month study projects the annual release volume from Glen Canyon Dam that would accomplish this objective to be 8.965 maf which equates to an equalization volume (volume in excess of 8.23 maf) projected to be 735,000 af. These projected values, as well as the monthly release volumes, for the remaining months of water year 2008 will be adjusted as conditions change.

Inflows to Lake Powell in early June increased to over 75,000 cfs with the elevation of Lake Powell increasing at nearly 1 foot per day. The current elevation of Lake Powell (July 6, 2008) is 3,632.64 feet above sea level. The Castle Rock Cut became passable in early June for the first time in over 5 years. The elevation of Lake Powell will likely reach its peak for water year 2008 by early August at approximately 3635 feet above sea level.

## **Upper Colorado River Basin Hydrology**

Precipitation in the basin above Lake Powell was below average in June (70% of average). The precipitation above Lake Powell in March and April was below normal at 60% of normal over the 2 month period and was average in May (100% of average). The overall precipitation in the Upper Colorado River Basin for water year 2008 so far is 104% of normal. Temperature conditions in June were below normal to begin the month but ended the month above normal.

The unregulated inflow to Lake Powell in May was 3,612,000 acre-feet (117% of normal). This was 188,000 acre-feet below the level forecasted in early June. The April through July unregulated inflow forecast for Lake Powell has been decreased from 9.2 maf (issued for June update) to 8.8 maf (issued for July update) which is 111% of average.

## **Upper Colorado River Basin Drought**

The Upper Colorado River Basin is experiencing a protracted multi-year drought. Since 1999, inflow to Lake Powell has been below average in every year except one.

In the summer of 1999, Lake Powell was essentially full with reservoir storage at 23.5 million acre-feet, or 97 percent of capacity. Inflow to Lake Powell in 1999 was 109

percent of average. The manifestation of drought conditions in the Upper Colorado River Basin began in the fall months of 1999. A five year period of extreme drought occurred in water years 2000, 2001, 2002, 2003, and 2004 with unregulated inflow to Lake Powell only 62, 59, 25, 51, and 49 percent of average, respectively. Lake Powell storage decreased through this five-year period, with reservoir storage reaching a low of 8.0 million acre-feet (33 percent of capacity) on April 8, 2005.

Drought conditions eased in water year 2005 in the Upper Colorado River Basin. Precipitation was above average in 2005 and unregulated inflow to Lake Powell was 105 percent of average. Lake Powell increased by 2.77 million acre-feet (31 feet in elevation) during water year 2005. But as is often the case, one favorable year does not necessarily end a protracted drought. In 2006, there was a return to drier conditions in the Colorado River Basin. Unregulated inflow to Lake Powell in water year 2006 was only 71 percent of average.

Water year 2007 was another year of below average inflow with unregulated inflow into Lake Powell at 68 percent of average. Over the past 8 years (2000 through 2007, inclusive), inflow to Lake Powell has been below average in all but one year (2005). Drought conditions have eased again in water year 2008 with projected inflows to the main stem Colorado River reservoirs at or above normal. Reservoir storage in the Colorado River Basin, however, is still below desired levels with the overall Colorado River system storage (above Lake Mead) projected to be about 58% of capacity at the end of water year 2008.

Reservoir storage in Lake Powell and Lake Mead has decreased during the past 8 years but is projected to increase by the end of water year 2008. Current reservoir storage in Lake Powell is 62 percent of capacity. Storage in Lake Mead is 46 percent of capacity.

TO ALL ANNUAL OPERATING PLAN RECIPIENTS

MAILED FROM UPPER COLORADO REGION  
WATER RESOURCES GROUP  
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SALT LAKE CITY, UT 84138-1147  
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SEASONAL RUNOFF PROJECTIONS AND INFLOW INFORMATION IN TO UPPER BASIN RESERVOIRS PROVIDED BY THE NATIONAL WEATHER SERVICES'S COLORADO BASIN RIVER FORECAST CENTER ARE AS FOLLOWS:

		Obs			jun	Forecast		Outlook			
		mar	apr	may	jun	%Avg	Jul	Aug	Sep	Apr-Jul	%Avg
GLDA3:Lake Powell		589	1003	2645	3614	117%:	1535/	700/	500/	8800/:	111%
GBRW4:Fontenelle		32	53	132	224	63%:	163/	65/	45/	570/:	66%
GRNU1:Flaming Gorge		59	79	177	277	59%:	172/	70/	50/	705/:	59%
BMDC2:Blue Mesa		36	107	318	409	140%:	186/	85/	47/	1020/:	142%
MPSC2:Morrow Point		34	109	343	432	137%:	196/	90/	50/	1080/:	138%
CLSC2:Crystal		41	124	388	484	133%:	224/	100/	57/	1220/:	133%
TPIC2:Taylor Park		3.9	7.3	36	65	144%:	35/	14/	9.5/	143/:	139%
VCRC2:Vallecito		11.1	33	77	84	102%:	25/	20/	15/	219/:	107%
NVRN5:Navajo		147	242	328	308	120%:	85/	50/	45/	965/:	123%
LEMC2:Lemon		1.68	7.9	24	25	100%:	5.1/	4/	4/	62/:	107%
MPHC2:McPhee		23	106	142	102e	103%:	20/	15/	11/	370/:	116%
RBSC2:Ridgway		6.7	13.1	26	56	138%:	/	/	/	126/:	124%

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Fontenelle Reservoir

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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 Elevation EOM Feet	Live Storage 1000 Ac-Ft
* Jul 2007	46	2	50	0	50	6489.09
H Aug 2007	35	2	50	0	50	6486.48
I Sep 2007	25	1	27	16	43	6483.42
WY 2007	578	14	602	16	618	186
S Oct 2007	33	1	37	6	44	6481.38
T Nov 2007	32	1	41	2	42	6479.48
O Dec 2007	27	1	43	0	44	6476.19
R Jan 2008	24	0	43	0	43	6472.00
I Feb 2008	25	0	40	1	41	6468.13
C Mar 2008	32	0	43	0	43	6465.20
A Apr 2008	53	1	42	0	42	6467.95
L May 2008	132	1	64	1	65	6481.73
* Jun 2008	224	2	100	0	101	298
Jul 2008	163	3	101	18	119	6505.17
Aug 2008	65	2	71	0	71	6504.16
Sep 2008	45	2	58	10	68	6500.89
WY 2008	856	14	684	38	722	306
Oct 2008	46	1	71	0	71	6497.43
Nov 2008	40	1	68	0	68	6493.32
Dec 2008	32	1	71	0	71	6487.39
Jan 2009	30	1	71	0	71	6480.46
Feb 2009	27	1	64	0	64	6472.98
Mar 2009	51	0	71	0	71	6468.35
Apr 2009	89	1	86	0	86	6468.82
May 2009	176	1	98	18	116	6481.08
Jun 2009	308	2	102	77	179	6500.03
Jul 2009	186	3	101	41	142	6505.37
Aug 2009	83	2	82	0	82	6505.13
Sep 2009	49	2	58	12	70	6502.15
WY 2009	1116	15	943	148	1091	315
Oct 2009	49	1	73	0	73	6498.82
Nov 2009	41	1	70	0	70	6494.66
Dec 2009	32	1	73	0	73	6488.53
Jan 2010	30	1	73	0	73	6481.49
Feb 2010	27	1	66	0	66	6473.86
Mar 2010	51	0	73	0	73	6468.89
Apr 2010	89	1	89	0	89	6468.63
May 2010	176	1	98	19	117	6480.83
Jun 2010	308	2	102	79	181	296

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Flaming Gorge Reservoir

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	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	Bank Storage 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft	Yampa Flow 1000 Ac-Ft	Jensen Flow 1000 Ac-Ft
* Jul 2007	42	45	13	55	0	55	87	6023.31	3098	0	81
H Aug 2007	32	46	12	51	0	51	86	6022.87	3082	0	66
I Sep 2007	23	40	10	49	0	49	85	6022.35	3063	0	72
WY 2007	744	784	77	777	0	777					2764
S Oct 2007	35	46	7	49	1	50	85	6022.07	3053	0	95
T Nov 2007	33	42	3	49	0	49	85	6021.81	3044	0	83
O Dec 2007	21	37	2	41	9	50	84	6021.40	3029	0	83
R Jan 2008	24	43	2	50	0	50	84	6021.15	3020	0	0
I Feb 2008	33	49	2	47	0	47	84	6021.15	3020	0	327
C Mar 2008	59	70	3	50	0	50	84	6021.55	3035	0	141
A Apr 2008	79	69	5	53	0	53	85	6021.85	3045	0	231
L May 2008	176	110	7	101	0	101	85	6021.85	3045	0	790
* Jun 2008	277	161	10	177	0	177	84	6021.15	3020	0	911
Jul 2008	172	128	13	93	0	93	84	6021.76	3042	0	93
Aug 2008	70	76	12	92	0	92	84	6020.99	3015	0	92
Sep 2008	50	73	10	89	0	89	83	6020.28	2989	0	89
WY 2008	1029	905	76	892	10	902					2936
Oct 2008	54	78	7	55	0	55	83	6020.71	3005	0	55
Nov 2008	49	77	3	54	0	54	84	6021.27	3025	0	54
Dec 2008	37	76	2	55	0	55	84	6021.77	3043	0	55
Jan 2009	41	82	2	55	0	55	85	6022.44	3067	0	55
Feb 2009	45	82	2	50	0	50	86	6023.25	3096	0	50
Mar 2009	103	123	3	57	0	57	88	6024.91	3157	0	57
Apr 2009	142	140	5	55	0	55	91	6026.98	3234	0	55
May 2009	263	203	8	159	0	159	92	6027.91	3269	0	159
Jun 2009	400	271	11	152	0	152	95	6030.66	3375	0	152
Jul 2009	219	175	14	112	0	112	97	6031.88	3422	0	112
Aug 2009	97	96	13	112	0	112	96	6031.16	3394	0	112
Sep 2009	58	80	11	109	0	109	95	6030.16	3355	0	109
WY 2009	1508	1483	80	1026	0	1026					1026
Oct 2009	59	83	7	112	0	112	94	6029.25	3320	0	112
Nov 2009	51	81	3	109	0	109	93	6028.45	3290	0	109
Dec 2009	37	77	2	112	0	112	91	6027.52	3254	0	112
Jan 2010	41	84	2	112	0	112	90	6026.74	3225	0	112
Feb 2010	45	84	2	101	0	101	90	6026.23	3206	0	101
Mar 2010	103	125	3	112	0	112	90	6026.48	3215	0	112
Apr 2010	142	143	5	109	0	109	91	6027.23	3243	0	109
May 2010	263	204	8	176	0	176	92	6027.76	3263	0	176
Jun 2010	400	273	10	162	0	162	95	6030.31	3361	0	162

## O P E R A T I O N   P L A N   F O R   C O L O R A D O   R I V E R   S Y S T E M   R E S E R V O I R S

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Taylor Park Reservoir

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	Regulated Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft
* Jul 2007	15	25	9322.65	92
H Aug 2007	10	18	9318.20	84
I Sep 2007	8	14	9314.67	78
WY 2007	130	124		
S Oct 2007	7	7	9314.68	78
T Nov 2007	4	4	9314.68	78
O Dec 2007	5	5	9314.89	78
R Jan 2008	5	4	9315.09	78
I Feb 2008	4	4	9314.99	78
C Mar 2008	4	7	9313.24	75
A Apr 2008	7	19	9305.56	63
L May 2008	36	29	9310.30	70
* Jun 2008	65	40	9324.75	96
Jul 2008	31	32	9324.48	95
Aug 2008	14	28	9316.74	81
Sep 2008	9	18	9311.41	72
WY 2008	192	198		
Oct 2008	7	12	9308.45	67
Nov 2008	5	5	9308.68	68
Dec 2008	4	5	9308.31	67
Jan 2009	4	5	9307.78	66
Feb 2009	4	5	9306.95	65
Mar 2009	4	5	9306.45	64
Apr 2009	8	10	9305.33	63
May 2009	27	14	9313.68	76
Jun 2009	43	20	9326.28	99
Jul 2009	20	20	9326.49	99
Aug 2009	10	20	9321.25	89
Sep 2009	7	16	9316.20	80
WY 2009	145	137		
Oct 2009	6	12	9312.71	74
Nov 2009	5	6	9312.03	73
Dec 2009	4	5	9311.68	73
Jan 2010	4	5	9311.17	72
Feb 2010	4	5	9310.49	71
Mar 2010	4	5	9310.01	70
Apr 2010	8	12	9307.66	66
May 2010	27	18	9313.39	75
Jun 2010	43	20	9326.04	98

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Blue Mesa Reservoir

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	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 elevation EOM Feet	Live Storage 1000 Ac-Ft
* Jul 2007	81	91	2	99	0	99	7513.48	776
H Aug 2007	75	83	1	109	0	109	7510.40	749
I Sep 2007	50	56	1	117	0	117	7503.06	687
WY 2007	895	889	9	861	0	861		
S Oct 2007	48	48	1	85	0	85	7498.53	649
T Nov 2007	31	31	0	65	0	65	7494.31	615
O Dec 2007	33	33	0	67	0	67	7489.90	581
R Jan 2008	33	33	0	93	0	93	7481.92	520
I Feb 2008	31	31	0	97	0	97	7472.73	454
C Mar 2008	36	39	0	53	0	53	7470.50	439
A Apr 2008	107	119	1	147	0	147	7466.24	411
L May 2008	318	312	1	199	50	250	7475.27	472
* Jun 2008	409	383	1	143	20	163	7503.56	691
Jul 2008	186	187	2	87	0	87	7514.89	789
Aug 2008	85	99	1	114	0	114	7513.09	773
Sep 2008	47	56	1	115	0	115	7506.16	713
WY 2008	1365	1371	8	1267	70	1337		
Oct 2008	42	47	1	91	0	91	7500.81	668
Nov 2008	34	33	0	61	0	61	7497.38	640
Dec 2008	25	26	0	84	0	84	7490.00	581
Jan 2009	24	25	0	73	0	73	7483.67	533
Feb 2009	22	23	0	65	0	65	7477.93	491
Mar 2009	34	35	0	72	0	72	7472.60	454
Apr 2009	73	75	1	66	0	66	7473.80	462
May 2009	212	199	1	56	0	56	7492.85	604
Jun 2009	271	248	1	60	0	60	7515.07	791
Jul 2009	121	120	2	107	0	107	7516.41	803
Aug 2009	62	72	1	116	0	116	7511.28	757
Sep 2009	36	45	1	106	0	106	7504.08	695
WY 2009	956	948	9	957	0	957		
Oct 2009	35	41	1	82	0	82	7499.06	654
Nov 2009	31	32	0	52	0	52	7496.53	633
Dec 2009	25	26	0	77	0	77	7490.00	581
Jan 2010	24	25	0	73	0	73	7483.66	533
Feb 2010	22	23	0	60	0	60	7478.60	496
Mar 2010	34	35	0	61	0	61	7474.88	469
Apr 2010	73	77	1	72	0	72	7475.48	474
May 2010	212	203	1	66	0	66	7493.58	610
Jun 2010	271	248	1	66	0	66	7515.04	790

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Morrow Point Reservoir

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	Unreg Inflow 1000 Ac-Ft	Blue_Mesa Release 1000 Ac-Ft	Side Inflow 1000 Ac-Ft	Total 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 Elevation EOM Feet	Live Storage 1000 Ac-Ft
* Jul 2007	73	99	-7	92	0	92	0	92	7153.52	112
H Aug 2007	67	109	-8	101	0	100	0	100	7154.39	113
I Sep 2007	41	117	-8	109	0	107	0	107	7156.75	114
WY 2007	883	861	-12	848	1	839	0	839		
S Oct 2007	43	85	-5	80	0	85	0	85	7150.81	110
T Nov 2007	28	65	-3	62	0	63	0	63	7149.32	109
O Dec 2007	31	67	-3	65	0	62	0	62	7152.91	111
R Jan 2008	29	93	-4	89	0	87	0	87	7156.26	114
I Feb 2008	26	97	-5	92	0	99	0	99	7146.95	107
C Mar 2008	34	53	-2	52	0	45	0	45	7155.12	113
A Apr 2008	109	147	1	148	0	153	0	153	7149.81	109
L May 2008	343	250	25	275	0	255	24	278	7144.87	105
* Jun 2008	432	163	23	186	0	177	4	180	7152.31	111
Jul 2008	196	87	10	97	0	96	0	96	7153.73	112
Aug 2008	90	114	5	119	0	119	0	119	7153.73	112
Sep 2008	50	115	3	118	0	118	0	118	7153.73	112
WY 2008	1412	1337	47	1384	0	1359	27	1386		
Oct 2008	45	91	3	94	0	94	0	94	7153.73	112
Nov 2008	36	61	2	63	0	63	0	63	7153.73	112
Dec 2008	27	84	2	86	0	86	0	86	7153.73	112
Jan 2009	26	73	2	75	0	75	0	75	7153.73	112
Feb 2009	25	65	3	68	0	68	0	68	7153.73	112
Mar 2009	38	72	4	76	0	76	0	76	7153.73	112
Apr 2009	84	66	11	77	0	77	0	77	7153.73	112
May 2009	237	56	25	81	0	81	0	81	7153.73	112
Jun 2009	292	60	21	81	0	81	0	81	7153.73	112
Jul 2009	127	107	7	113	0	113	0	113	7153.73	112
Aug 2009	65	116	4	120	0	120	0	120	7153.73	112
Sep 2009	39	106	3	109	0	109	0	109	7153.73	112
WY 2009	1043	957	87	1044	0	1044	0	1044		
Oct 2009	38	82	3	85	0	85	0	85	7153.73	112
Nov 2009	33	52	2	54	0	54	0	54	7153.73	112
Dec 2009	27	77	2	79	0	79	0	79	7153.73	112
Jan 2010	26	73	2	75	0	75	0	75	7153.73	112
Feb 2010	25	60	3	63	0	63	0	63	7153.73	112
Mar 2010	38	61	4	65	0	65	0	65	7153.73	112
Apr 2010	84	72	11	83	0	83	0	83	7153.73	112
May 2010	237	66	25	91	0	91	0	91	7153.73	112
Jun 2010	292	66	21	87	0	87	0	87	7153.73	112

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Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Crystal Reservoir

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	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 Elevation EOM Feet	Live Storage 1000 Ac-Ft	Tunnel Flow 1000 Ac-Ft	Below_tunnel Flow 1000 Ac-Ft
* Jul 2007	80	92	7	99	98	0	98	6748.50	16	66	37
H Aug 2007	74	100	7	107	108	0	108	6744.63	15	63	51
I Sep 2007	46	107	5	112	112	0	112	6746.25	15	56	62
WY 2007	991	839	108	946	907	39	946			363	632
S Oct 2007	48	85	5	90	90	0	90	6745.51	15	38	54
T Nov 2007	32	63	4	67	66	0	66	6748.78	16	0	70
O Dec 2007	35	62	5	67	68	0	68	6742.95	14	1	73
R Jan 2008	34	87	5	91	77	13	90	6748.45	16	1	94
I Feb 2008	30	99	4	103	72	31	103	6749.17	16	1	108
C Mar 2008	41	45	6	52	52	0	52	6749.59	16	1	54
A Apr 2008	124	153	16	168	127	40	168	6751.31	16	23	150
L May 2008	388	278	45	323	130	191	321	6760.22	19	54	275
* Jun 2008	484	180	52	232	118	116	234	6753.95	17	47	196
Jul 2008	224	96	28	124	124	0	124	6753.04	17	65	59
Aug 2008	100	119	10	129	129	0	129	6753.04	17	65	64
Sep 2008	57	118	7	125	125	0	125	6753.04	17	55	70
WY 2008	1597	1386	186	1571	1178	391	1569			351	1267
Oct 2008	52	94	7	101	101	0	101	6753.04	17	30	71
Nov 2008	41	63	5	69	69	0	69	6753.04	17	0	69
Dec 2008	32	86	5	91	91	0	91	6753.04	17	0	91
Jan 2009	31	75	5	80	80	0	80	6753.04	17	0	80
Feb 2009	29	68	4	72	72	0	72	6753.04	17	0	72
Mar 2009	46	76	7	83	83	0	83	6753.04	17	5	78
Apr 2009	96	77	12	89	89	0	89	6753.04	17	30	59
May 2009	272	81	35	116	116	0	116	6753.04	17	55	61
Jun 2009	330	81	38	119	119	0	119	6753.04	17	60	59
Jul 2009	144	113	17	130	130	0	130	6753.04	17	65	65
Aug 2009	74	120	8	128	128	0	128	6753.04	17	65	63
Sep 2009	45	109	6	115	115	0	115	6753.04	17	55	60
WY 2009	1194	1044	151	1195	1195	0	1195			365	830
Oct 2009	44	85	7	91	91	0	91	6753.04	17	30	61
Nov 2009	38	54	5	59	59	0	59	6753.04	17	0	59
Dec 2009	32	79	5	84	84	0	84	6753.04	17	0	84
Jan 2010	31	75	5	80	80	0	80	6753.04	17	0	80
Feb 2010	29	63	4	67	67	0	67	6753.04	17	0	67
Mar 2010	46	65	7	72	72	0	72	6753.04	17	5	67
Apr 2010	96	83	12	95	95	0	95	6753.04	17	30	65
May 2010	272	91	35	126	126	0	126	6753.04	17	55	71
Jun 2010	330	87	38	125	125	0	125	6753.04	17	60	65

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Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Vallecito Reservoir

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	Regulated Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft
* Jul 2007	23	41	7657.48	106
H Aug 2007	27	34	7654.84	99
I Sep 2007	18	34	7648.41	83
WY 2007	330	327		
S Oct 2007	15	31	7641.28	67
T Nov 2007	7	4	7642.40	69
O Dec 2007	8	3	7644.42	74
R Jan 2008	6	4	7645.29	76
I Feb 2008	6	17	7640.08	65
C Mar 2008	11	36	7626.73	39
A Apr 2008	33	29	7628.85	43
L May 2008	77	38	7647.76	82
* Jun 2008	84	43	7663.79	122
Jul 2008	25	43	7656.69	104
Aug 2008	20	40	7648.37	83
Sep 2008	15	33	7640.23	65
WY 2008	307	322		
Oct 2008	12	19	7636.67	57
Nov 2008	8	6	7637.55	59
Dec 2008	6	5	7638.18	60
Jan 2009	5	5	7638.42	61
Feb 2009	5	4	7638.60	61
Mar 2009	8	5	7640.15	65
Apr 2009	22	12	7644.59	74
May 2009	69	43	7655.42	100
Jun 2009	78	55	7663.86	122
Jul 2009	31	43	7659.05	110
Aug 2009	19	40	7650.56	88
Sep 2009	17	30	7644.96	75
WY 2009	280	266		
Oct 2009	13	15	7643.94	73
Nov 2009	8	4	7645.76	77
Dec 2009	6	4	7646.57	79
Jan 2010	5	5	7646.61	79
Feb 2010	5	5	7646.62	79
Mar 2010	8	5	7647.84	82
Apr 2010	22	14	7651.07	90
May 2010	69	44	7660.92	115
Jun 2010	78	68	7664.30	124

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Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Navajo Reservoir

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	Mod_Unreg	Azetea	Reg	Evap	NIIP	Total	Reservoir	Live	Farm
	Inflow	Tunnel_Div	Inflow	Losses	Diversion	Release	Elevation	Storage	Flow
	1000	1000	1000	1000	1000	1000	EOM	1000	1000
	Ac-Ft	Ac-Ft	Ac-Ft	Ac-Ft	ac-Ft	Ac-Ft	Feet	Ac-Ft	Ac-Ft
* Jul 2007	33	4	46	5	38	46	6076.77	1577	81
H Aug 2007	61	7	59	4	33	48	6074.98	1551	82
I Sep 2007	27	2	41	3	23	56	6072.10	1510	80
WY 2007	1096	119	974	31	192	660			1160
S Oct 2007	41	0	57	2	10	46	6072.01	1509	79
T Nov 2007	19	0	17	1	1	43	6070.07	1482	57
O Dec 2007	46	0	40	1	0	42	6069.89	1479	67
R Jan 2008	26	0	24	1	0	47	6068.19	1456	69
I Feb 2008	38	0	48	1	0	122	6062.59	1381	160
C Mar 2008	147	6	167	2	6	219	6057.91	1321	284
A Apr 2008	242	27	214	2	21	152	6060.97	1360	240
L May 2008	328	45	243	4	31	149	6065.54	1420	303
* Jun 2008	307	0	215	4	39	221	6061.77	1370	415
Jul 2008	85	33	70	4	43	32	6061.03	1361	32
Aug 2008	50	5	65	4	36	31	6060.63	1356	31
Sep 2008	45	1	62	3	21	30	6061.34	1365	30
WY 2008	1373	117	1224	28	208	1132			1766
Oct 2008	39	0	47	2	6	31	6061.96	1373	31
Nov 2008	34	0	32	1	0	30	6062.05	1374	30
Dec 2008	24	0	23	1	0	31	6061.37	1365	31
Jan 2009	22	0	21	1	0	31	6060.59	1355	31
Feb 2009	30	0	30	1	0	28	6060.68	1356	28
Mar 2009	88	4	81	2	4	31	6064.11	1401	31
Apr 2009	174	13	151	3	16	34	6071.36	1499	34
May 2009	279	33	219	4	30	200	6070.31	1485	200
Jun 2009	246	40	184	4	45	212	6064.55	1407	212
Jul 2009	74	13	73	5	49	31	6063.73	1396	31
Aug 2009	43	13	51	4	41	31	6061.88	1372	31
Sep 2009	42	4	51	3	24	30	6061.49	1367	30
WY 2009	1096	119	963	28	214	718			718
Oct 2009	38	0	40	2	6	31	6061.59	1368	31
Nov 2009	33	0	29	1	0	30	6061.42	1366	30
Dec 2009	24	0	22	1	0	31	6060.68	1356	31
Jan 2010	22	0	22	1	0	31	6059.92	1347	31
Feb 2010	30	0	30	1	0	28	6060.04	1348	28
Mar 2010	88	4	81	2	4	31	6063.52	1393	31
Apr 2010	174	13	153	3	16	34	6070.92	1493	34
May 2010	279	0	253	4	30	200	6072.27	1512	200
Jun 2010	246	40	197	5	45	212	6067.57	1447	212

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Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Lake Powell

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	Unreg Inflow Ac-Ft	Regulated Inflow Ac-Ft	Evap Losses Ac-Ft	PowerPlant Release Ac-Ft	Bypass Release Ac-Ft	Total Release Ac-Ft	Reservoir Elevation Feet	Bank Storage Ac-Ft	EOM Storage Ac-Ft	Lees Ferry Ac-Ft
* Jul 2007	366	452	54	804	0	804	3607.35	18327	12465	819
H Aug 2007	378	437	52	804	0	804	3603.58	18278	12095	818
I Sep 2007	296	454	47	604	0	604	3601.87	18246	11929	617
WY 2007	8213	8077	371	8230	0	8231				8397
S Oct 2007	467	540	32	601	0	601	3600.62	18273	11809	612
T Nov 2007	397	470	31	603	0	603	3598.63	18298	11620	615
O Dec 2007	398	455	24	803	0	803	3594.64	18299	11246	814
R Jan 2008	336	440	7	801	0	801	3590.66	18296	10880	813
I Feb 2008	412	568	8	602	0	602	3590.66	18254	10880	613
C Mar 2008	589	717	13	737	93	830	3589.77	18208	10800	848
A Apr 2008	1003	986	21	679	0	679	3594.09	18098	11195	691
L May 2008	2644	2384	27	790	0	790	3610.81	18048	12812	808
* Jun 2008	3613	3377	49	791	0	791	3631.05	18426	14971	810
Jul 2008	1535	1379	53	865	0	865	3634.80	18460	15398	865
Aug 2008	700	773	55	890	0	890	3633.41	18447	15238	890
Sep 2008	500	613	47	710	0	710	3632.24	18437	15105	710
WY 2008	12594	12701	369	8872	93	8965				9090
Oct 2008	536	585	42	710	0	710	3630.86	18424	14950	710
Nov 2008	539	567	35	650	0	650	3629.89	18416	14840	650
Dec 2008	418	502	29	800	0	800	3627.16	18391	14537	800
Jan 2009	384	457	22	800	0	800	3624.07	18364	14199	800
Feb 2009	395	440	20	700	0	700	3621.66	18344	13940	700
Mar 2009	628	570	25	650	0	650	3620.75	18336	13843	650
Apr 2009	952	747	28	650	0	650	3621.34	18341	13906	650
May 2009	2161	1885	39	800	0	800	3630.20	18418	14875	800
Jun 2009	2808	2400	48	915	0	915	3641.71	18525	16206	915
Jul 2009	1345	1243	56	1050	0	1050	3642.77	18535	16333	1050
Aug 2009	566	678	57	1050	0	1050	3639.43	18503	15936	1050
Sep 2009	459	594	49	600	0	600	3639.00	18499	15885	600
WY 2009	11192	10667	449	9375	0	9375				9375
Oct 2009	506	605	44	600	0	600	3638.69	18496	15849	600
Nov 2009	523	599	37	600	0	600	3638.40	18494	15815	600
Dec 2009	418	552	30	800	0	800	3636.18	18473	15557	800
Jan 2010	384	514	23	800	0	800	3633.69	18450	15270	800
Feb 2010	395	486	21	800	0	800	3630.96	18425	14960	800
Mar 2010	628	614	26	800	0	800	3629.21	18409	14764	800
Apr 2010	952	807	29	900	0	900	3628.18	18400	14651	900
May 2010	2161	1879	41	1000	0	1000	3635.06	18462	15427	1000
Jun 2010	2808	2416	49	1050	0	1050	3645.38	18560	16647	1050

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Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Hoover Dam - Lake Mead

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	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	Dwnstrm Reqmnts 1000 Ac-Ft	Bank Storage 1000 Ac-Ft	Reservoir Elevation EOM Feet	EOM Storage 1000 Ac-Ft
* Jul 2007	804	67	76	950	15.5	39	949	816	1111.58	12554
H Aug 2007	804	138	80	803	13.1	33	801	818	1111.84	12578
I Sep 2007	604	63	66	656	11.0	24	653	813	1111.06	12505
WY 2007	8231	677	633	9450		297	9420			
S Oct 2007	601	32	48	570	9.3	26	564	812	1110.95	12494
T Nov 2007	603	67	48	576	9.7	19	575	814	1111.22	12520
O Dec 2007	803	95	42	477	7.8	17	467	836	1114.81	12860
R Jan 2008	801	88	34	672	10.9	14	659	846	1116.46	13017
I Feb 2008	602	147	32	659	11.5	11	658	849	1116.93	13062
C Mar 2008	830	116	35	1025	16.7	17	1023	841	1115.65	12940
A Apr 2008	679	40	44	1159	19.5	25	1155	810	1110.61	12463
L May 2008	790	47	49	1113	18.1	27	1110	789	1107.05	12132
* Jun 2008	791	39	59	949	15.9	25	948	776	1104.98	11941
Jul 2008	865	57	73	877	14.3	37	877	772	1104.31	11880
Aug 2008	890	115	78	812	13.2	34	812	777	1105.14	11956
Sep 2008	710	79	64	711	11.9	28	711	776	1105.00	11943
WY 2008	8965	921	606	9599		281	9560			
Oct 2008	710	68	47	525	8.5	28	525	787	1106.82	12110
Nov 2008	650	68	47	568	9.5	17	568	792	1107.69	12191
Dec 2008	800	61	41	539	8.8	11	539	809	1110.42	12446
Jan 2009	800	126	34	685	11.1	12	685	821	1112.37	12628
Feb 2009	700	116	31	660	11.9	12	660	828	1113.48	12733
Mar 2009	650	87	35	951	15.5	16	951	811	1110.83	12484
Apr 2009	650	74	43	1080	18.2	22	1080	786	1106.58	12088
May 2009	800	65	49	1022	16.6	35	1022	771	1104.11	11862
Jun 2009	915	16	58	838	14.1	34	838	771	1104.12	11864
Jul 2009	1050	57	73	912	14.8	33	912	777	1105.04	11947
Aug 2009	1050	115	78	819	13.3	30	819	791	1107.46	12170
Sep 2009	600	79	65	698	11.7	33	698	784	1106.28	12061
WY 2009	9375	931	600	9297		283	9297			
Oct 2009	600	68	47	453	7.4	31	453	792	1107.67	12189
Nov 2009	600	68	47	568	9.5	23	568	794	1107.97	12217
Dec 2009	800	61	41	583	9.5	11	583	808	1110.25	12429
Jan 2010	800	128	34	677	11.0	12	677	820	1112.30	12622
Feb 2010	800	78	31	679	12.2	12	679	830	1113.84	12768
Mar 2010	800	76	35	995	16.2	16	995	820	1112.15	12608
Apr 2010	900	63	43	1097	18.4	22	1097	807	1110.17	12421
May 2010	1000	17	49	1033	16.8	35	1033	801	1109.16	12327
Jun 2010	1050	55	60	829	13.9	34	829	812	1110.99	12498

## O P E R A T I O N   P L A N   F O R   C O L O R A D O   R I V E R   S Y S T E M   R E S E R V O I R S

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
 Davis Dam - Lake Mohave

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	Hoover Release 1000 Ac-Ft	Side inflow 1000 Ac-Ft	Power Release 1000 Ac-Ft	Spill Release 1000 Ac-Ft	Total Release 1000 Ac-Ft	Total Release 1000 CFS	Reservoir Elevation EOM Feet	EOM Storage 1000 Ac-Ft
* Jul 2007	950	-32	916	0	916	14.9	642.89	1696
H Aug 2007	803	-29	786	0	786	12.8	642.45	1684
I Sep 2007	656	-18	777	0	777	13.0	637.26	1545
WY 2007	9450	-249	9241	0	9241			
S Oct 2007	570	-14	635	0	635	10.3	634.21	1465
T Nov 2007	576	-17	516	0	516	8.7	635.89	1509
O Dec 2007	477	-24	396	0	396	6.4	638.03	1565
R Jan 2008	672	-27	547	0	547	8.9	641.68	1663
I Feb 2008	659	-12	717	0	717	12.5	639.09	1593
C Mar 2008	1025	-26	974	0	974	15.8	640.01	1618
A Apr 2008	1159	-23	1104	0	1104	18.6	641.20	1650
L May 2008	1113	-45	993	0	993	16.2	643.95	1725
* Jun 2008	949	-34	932	0	932	15.7	643.36	1709
Jul 2008	877	-25	889	0	889	14.5	642.00	1671
Aug 2008	812	-25	801	0	801	13.0	641.50	1658
Sep 2008	711	-18	786	0	786	13.2	638.00	1564
WY 2008	9599	-289	9290	0	9290			
Oct 2008	525	-2	653	0	653	10.6	633.00	1434
Nov 2008	568	-16	527	0	527	8.8	634.00	1460
Dec 2008	539	-19	397	0	397	6.5	638.71	1583
Jan 2009	685	-20	582	0	582	9.5	641.80	1666
Feb 2009	660	-14	646	0	646	11.6	641.80	1666
Mar 2009	951	-25	892	0	892	14.5	643.05	1700
Apr 2009	1080	-30	1052	0	1052	17.7	643.01	1699
May 2009	1022	-33	989	0	989	16.1	643.01	1699
Jun 2009	838	-27	839	0	839	14.1	642.00	1671
Jul 2009	912	-25	901	0	901	14.6	641.50	1658
Aug 2009	819	-25	795	0	795	12.9	641.50	1658
Sep 2009	698	-18	774	0	774	13.0	638.00	1564
WY 2009	9297	-253	9044	0	9044			
Oct 2009	453	-2	581	0	581	9.4	633.00	1434
Nov 2009	568	-16	526	0	526	8.8	634.00	1460
Dec 2009	583	-19	441	0	441	7.2	638.71	1583
Jan 2010	677	-16	578	0	578	9.4	641.80	1666
Feb 2010	679	-23	656	0	656	11.8	641.80	1666
Mar 2010	995	-31	930	0	930	15.1	643.05	1700
Apr 2010	1097	-32	1066	0	1066	17.9	643.01	1699
May 2010	1033	-28	1005	0	1005	16.3	643.01	1699
Jun 2010	829	-24	832	0	832	14.0	642.00	1671

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Parker Dam - Lake Havasu

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	Davis Release	Side Inflow	Total Release	Total Release	MWD Diversion	CAP diversion	Reservoir Elevation	EOM Storage	Flow_to Mexico	Flow_to Mexico
	1000 Ac-Ft	1000 Ac-Ft	1000 Ac-Ft	1000 CFS	1000 Ac-Ft	1000 Ac-Ft	1000 Feet	1000 Ac-Ft	1000 Ac-Ft	1000 CFS
* Jul 2007	916	-2	749	12.2	64	100	448.35	587	124	2.0
H Aug 2007	786	-13	634	10.3	98	42	448.28	585	97	1.6
I Sep 2007	777	-7	555	9.3	91	134	447.77	576	92	1.5
WY 2007	9241	-94	6803		689	1632			1514	
S Oct 2007	635	2	455	7.4	27	164	447.28	566	80	1.3
T Nov 2007	516	3	336	5.6	29	147	447.65	573	103	1.7
O Dec 2007	396	10	270	4.4	35	118	446.77	557	126	2.1
R Jan 2008	547	5	306	5.0	81	167	446.67	555	132	2.1
I Feb 2008	717	-11	486	8.4	67	157	446.44	551	155	2.7
C Mar 2008	974	-15	744	12.1	46	168	446.47	551	205	3.3
A Apr 2008	1104	-10	838	14.1	76	166	447.25	566	202	3.4
L May 2008	993	-10	684	11.1	98	172	448.84	596	113	1.8
* Jun 2008	932	-26	691	11.6	93	126	448.62	592	116	1.9
Jul 2008	889	-17	717	11.7	86	82	448.00	580	119	1.9
Aug 2008	801	-11	626	10.2	86	79	448.00	580	93	1.5
Sep 2008	786	-12	564	9.5	83	150	446.81	557	89	1.5
WY 2008	9290	-91	6715		806	1697			1533	
Oct 2008	653	3	471	7.7	86	108	446.31	548	74	1.2
Nov 2008	527	11	381	6.4	28	125	446.50	552	103	1.7
Dec 2008	397	10	316	5.1	20	70	446.50	552	118	1.9
Jan 2009	582	23	354	5.8	81	170	446.50	552	119	1.9
Feb 2009	646	32	449	8.1	76	153	446.50	552	154	2.8
Mar 2009	892	31	703	11.4	47	168	446.70	555	204	3.3
Apr 2009	1052	-4	771	13.0	76	162	448.71	594	200	3.4
May 2009	989	-14	730	11.9	82	163	448.71	594	109	1.8
Jun 2009	839	-24	681	11.5	79	54	448.71	594	113	1.9
Jul 2009	901	-17	734	11.9	81	83	448.00	580	119	1.9
Aug 2009	795	-11	633	10.3	81	78	447.50	571	93	1.5
Sep 2009	774	-12	570	9.6	79	126	446.81	557	89	1.5
WY 2009	9044	26	6795		816	1460			1497	
Oct 2009	581	3	476	7.7	28	89	446.31	548	74	1.2
Nov 2009	526	11	386	6.5	26	122	446.50	552	103	1.7
Dec 2009	441	10	324	5.3	6	121	446.50	552	122	2.0
Jan 2010	578	35	352	5.7	85	176	446.50	552	119	1.9
Feb 2010	656	28	446	8.0	80	158	446.50	552	154	2.8
Mar 2010	930	-4	700	11.4	49	174	446.70	555	204	3.3
Apr 2010	1066	-14	767	12.9	80	167	448.71	594	200	3.4
May 2010	1005	-25	726	11.8	85	168	448.71	594	109	1.8
Jun 2010	832	-16	678	11.4	83	56	448.71	594	113	1.9

## O P E R A T I O N   P L A N   F O R   C O L O R A D O   R I V E R   S Y S T E M   R E S E R V O I R S

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Hoover Dam - Lake Mead

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	Power Release	Power Release	EOM Reservoir	EOM Storage	Change_In Storage	Hoover Static Head	Hoover Generator Capacity	Hoover Gross Energy	Percent Of Units Available	KWH/AF
	1000 Ac-Ft	1000 CFS	1000 Elevation Feet	1000 Ac-Ft	1000 Ac-Ft	Feet	MW	MKWH		
* Jul 2007	950	15.5	1111.58	12554	-181	0.00	1730.0	377.2	100	397.0
H Aug 2007	803	13.1	1111.84	12578	24	0.00	1704.0	315.2	100	392.6
I Sep 2007	656	11.0	1111.06	12505	-73	0.00	1500.0	252.9	88	385.6
WY 2007	9450							3826.0		
S Oct 2007	570	9.3	1110.95	12494	-10	0.00	1363.0	219.9	80	385.9
T Nov 2007	575	9.7	1111.22	12520	25	0.00	1056.0	225.1	62	391.4
O Dec 2007	477	7.8	1114.81	12860	340	0.00	1074.0	183.5	63	385.0
R Jan 2008	672	10.9	1116.46	13017	158	0.00	1183.4	268.3	69	399.2
I Feb 2008	659	11.5	1116.93	13062	45	0.00	1093.0	266.5	63	404.5
C Mar 2008	1025	16.7	1115.65	12940	-123	0.00	1218.0	420.7	70	410.6
A Apr 2008	1159	19.5	1110.61	12463	-477	0.00	1398.1	475.9	81	410.7
L May 2008	1113	18.1	1107.05	12132	-331	0.00	1481.6	445.7	87	400.5
* Jun 2008	949	15.9	1104.98	11941	-190	0.00	1694.0	371.6	100	391.7
Jul 2008	877	14.3	1104.31	11880	-61	451.18	1672.0	359.7	100	410.2
Aug 2008	812	13.2	1105.14	11956	76	451.86	1674.0	330.7	100	407.2
Sep 2008	711	11.9	1105.00	11943	-13	453.51	1682.0	286.7	100	403.3
WY 2008	9598							3854.4		
Oct 2008	525	8.5	1106.82	12110	167	460.73	1027.2	211.3	61	402.5
Nov 2008	568	9.5	1107.69	12191	81	462.94	1155.3	232.5	68	409.6
Dec 2008	539	8.8	1110.42	12446	255	461.66	1402.2	215.6	82	400.4
Jan 2009	685	11.1	1112.37	12628	183	462.21	1283.2	281.3	75	410.4
Feb 2009	660	11.9	1113.48	12733	105	463.49	1150.6	275.5	68	417.3
Mar 2009	951	15.5	1110.83	12484	-249	460.77	1375.1	397.0	82	417.6
Apr 2009	1080	18.2	1106.58	12088	-396	457.60	1268.4	454.2	76	420.4
May 2009	1022	16.6	1104.11	11862	-226	454.27	1276.8	421.2	76	412.0
Jun 2009	838	14.1	1104.12	11864	1	450.77	1691.0	343.1	100	409.3
Jul 2009	912	14.8	1105.04	11947	83	451.72	1710.0	368.4	100	403.9
Aug 2009	819	13.3	1107.46	12170	223	453.54	1713.0	335.0	100	408.9
Sep 2009	698	11.7	1106.28	12061	-109	455.30	1721.0	281.8	100	403.7
WY 2009	9297							3816.8		
Oct 2009	453	7.4	1107.67	12189	128	459.49	1412.9	182.4	82	402.4
Nov 2009	568	9.5	1107.97	12217	28	461.97	1423.5	230.4	82	406.0
Dec 2009	583	9.5	1110.25	12429	213	461.71	1423.5	236.4	82	405.5
Jan 2010	677	11.0	1112.30	12622	193	462.09	1302.0	277.1	75	409.5
Feb 2010	679	12.2	1113.84	12768	146	463.64	1180.5	284.4	68	419.0
Mar 2010	995	16.2	1112.15	12608	-160	461.61	1423.5	412.0	82	414.0
Apr 2010	1097	18.4	1110.17	12421	-187	460.04	1319.4	464.3	76	423.4
May 2010	1033	16.8	1109.16	12327	-94	458.57	1319.4	429.8	76	416.3
Jun 2010	829	13.9	1110.99	12498	171	456.68	1736.0	342.9	100	413.6

## O P E R A T I O N   P L A N   F O R   C O L O R A D O   R I V E R   S Y S T E M   R E S E R V O I R S

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Davis Dam - Lake Mohave

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	Power Release	Power Release	EOM Reservoir	EOM Storage	Change_In Storage	Davis Static Head	Davis Generator Capacity	Davis Gross Energy	Percent Of Units Available	KWH/AF
	1000 Ac-Ft	1000 CFS	Elevation Feet	1000 Ac-Ft	1000 Ac-Ft	Feet	MW	MKWH		
* Jul 2007	916	14.9	642.89	1696	3	0.00	242.0	114.9	95	125.5
H Aug 2007	786	12.8	642.45	1684	-12	0.00	255.0	99.2	100	126.3
I Sep 2007	777	13.0	637.26	1545	-139	0.00	240.0	95.9	94	123.5
WY 2007	9241							1148.3		
S Oct 2007	635	10.3	634.21	1465	-79	0.00	201.0	76.0	79	119.8
T Nov 2007	516	8.7	635.89	1509	43	0.00	171.0	61.8	67	119.8
O Dec 2007	396	6.4	638.03	1565	56	0.00	181.0	48.9	71	123.4
R Jan 2008	547	8.9	641.68	1663	98	0.00	158.1	67.9	62	124.1
I Feb 2008	717	12.5	639.09	1593	-70	0.00	191.2	88.7	75	123.8
C Mar 2008	974	15.8	640.01	1618	25	0.00	227.0	120.5	89	123.7
A Apr 2008	1104	18.6	641.20	1650	32	0.00	255.0	135.8	100	123.0
L May 2008	993	16.2	643.95	1725	75	0.00	255.0	123.5	100	124.4
* Jun 2008	932	15.7	643.36	1709	-16	0.00	255.0	117.8	100	126.5
Jul 2008	889	14.5	642.00	1671	-37	135.70	255.0	111.3	100	125.2
Aug 2008	801	13.0	641.50	1658	-14	134.73	255.0	100.0	100	124.8
Sep 2008	786	13.2	638.00	1564	-94	132.63	255.0	96.7	100	122.9
WY 2008	9290							1149.0		
Oct 2008	653	10.6	633.00	1434	-130	128.15	255.0	78.3	100	120.0
Nov 2008	527	8.8	634.00	1460	26	126.25	247.3	62.6	97	118.9
Dec 2008	397	6.5	638.71	1583	123	129.99	221.8	48.6	87	122.4
Jan 2009	582	9.5	641.80	1666	83	136.14	158.1	72.6	62	124.7
Feb 2009	646	11.6	641.80	1666	0	136.62	191.2	81.0	75	125.3
Mar 2009	892	14.5	643.05	1700	34	136.20	227.0	111.4	89	124.9
Apr 2009	1052	17.7	643.01	1699	-1	136.08	255.0	131.0	100	124.5
May 2009	989	16.1	643.01	1699	0	136.05	255.0	123.6	100	124.9
Jun 2009	839	14.1	642.00	1671	-28	135.52	255.0	104.9	100	125.1
Jul 2009	901	14.6	641.50	1658	-14	134.73	255.0	111.9	100	124.3
Aug 2009	795	12.9	641.50	1658	0	134.46	255.0	99.0	100	124.6
Sep 2009	774	13.0	638.00	1564	-94	132.63	255.0	95.2	100	123.0
WY 2009	9044							1120.0		
Oct 2009	581	9.4	633.00	1434	-130	128.15	255.0	70.0	100	120.4
Nov 2009	526	8.8	634.00	1460	26	126.25	247.3	62.6	97	118.9
Dec 2009	441	7.2	638.71	1583	123	129.99	221.8	53.9	87	122.1
Jan 2010	578	9.4	641.80	1666	83	136.14	158.1	72.1	62	124.7
Feb 2010	656	11.8	641.80	1666	0	136.62	191.2	82.2	75	125.2
Mar 2010	930	15.1	643.05	1700	34	136.20	227.0	116.0	89	124.7
Apr 2010	1066	17.9	643.01	1699	-1	136.08	255.0	132.7	100	124.4
May 2010	1005	16.3	643.01	1699	0	136.05	255.0	125.4	100	124.9
Jun 2010	832	14.0	642.00	1671	-28	135.52	255.0	104.2	100	125.1

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Parker Dam - Lake Havasu

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	Power Release	Power Release	EOM Reservoir	EOM Storage	Change_In Storage	Parker Static Head	Parker Generator Capacity	Parker Gross Energy MKW	Percent Of Units Available	KWH/AF
	1000 Ac-Ft	1000 CFS	Elevation Feet	1000 Ac-Ft	1000 Ac-Ft	Feet	MW			
* Jul 2007	749	12.2	448.35	587	1	0.00	120.0	50.1	100	66.9
H Aug 2007	634	10.3	448.28	585	-1	0.00	120.0	43.0	100	67.8
I Sep 2007	555	9.3	447.77	576	-10	0.00	95.0	37.8	79	68.3
WY 2007	6804							455.2		
S Oct 2007	455	7.4	447.28	566	-9	0.00	90.0	31.5	75	69.3
T Nov 2007	336	5.6	447.65	573	7	0.00	79.0	23.0	66	68.7
O Dec 2007	270	4.4	446.77	557	-16	0.00	79.0	17.9	66	66.5
R Jan 2008	306	5.0	446.67	555	-2	0.00	85.2	20.3	71	66.5
I Feb 2008	486	8.4	446.44	551	-4	0.00	90.0	32.6	75	67.2
C Mar 2008	744	12.1	446.47	551	1	0.00	90.0	49.8	75	67.0
A Apr 2008	838	14.1	447.25	566	14	0.00	90.0	55.0	75	65.6
L May 2008	684	11.1	448.84	596	30	0.00	90.0	46.4	75	67.9
* Jun 2008	691	11.6	448.62	592	-4	0.00	90.0	47.3	75	68.4
Jul 2008	717	11.7	448.00	580	-12	77.08	90.0	48.5	75	67.7
Aug 2008	626	10.2	448.00	580	0	75.37	120.0	41.1	100	65.7
Sep 2008	564	9.5	446.81	557	-23	76.20	90.0	37.5	75	66.5
WY 2008	6715							451.1		
Oct 2008	471	7.7	446.31	548	-9	75.98	79.2	31.1	66	65.9
Nov 2008	381	6.4	446.50	552	3	75.83	79.2	24.9	66	65.2
Dec 2008	316	5.1	446.50	552	0	75.32	90.0	20.2	75	63.8
Jan 2009	354	5.8	446.50	552	0	75.32	90.0	22.8	75	64.3
Feb 2009	449	8.1	446.50	552	0	75.32	90.0	29.4	75	65.4
Mar 2009	703	11.4	446.70	555	4	74.01	120.0	45.7	100	64.9
Apr 2009	771	13.0	448.71	594	38	75.09	120.0	50.9	100	66.0
May 2009	730	11.9	448.71	594	0	76.06	120.0	48.6	100	66.6
Jun 2009	681	11.5	448.71	594	0	76.06	120.0	45.3	100	66.5
Jul 2009	734	11.9	448.00	580	-14	75.72	120.0	48.7	100	66.3
Aug 2009	633	10.3	447.50	571	-10	75.13	120.0	41.5	100	65.6
Sep 2009	570	9.6	446.81	557	-13	75.95	90.0	37.8	75	66.4
WY 2009	6795							446.7		
Oct 2009	476	7.7	446.31	548	-9	75.98	79.2	31.4	66	66.0
Nov 2009	386	6.5	446.50	552	3	75.83	79.2	25.2	66	65.3
Dec 2009	324	5.3	446.50	552	0	75.92	79.2	20.9	66	64.5
Jan 2010	352	5.7	446.50	552	0	75.32	90.0	22.6	75	64.3
Feb 2010	446	8.0	446.50	552	0	75.32	90.0	29.2	75	65.4
Mar 2010	700	11.4	446.70	555	4	74.01	120.0	45.4	100	64.9
Apr 2010	767	12.9	448.71	594	38	75.09	120.0	50.6	100	66.0
May 2010	726	11.8	448.71	594	0	76.06	120.0	48.3	100	66.6
Jun 2010	678	11.4	448.71	594	0	76.06	120.0	45.1	100	66.5

## OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 7/2008 Most Prob Water Supply  
Upper Basin Power

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	Glen Canyon	Flam Gorge	Blue Mesa	Morrow Point	Crystal Res	Font Res
	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR	1000 MWHR
* Jul 2007	343	21	29	33	19	4
H Aug 2007	340	20	32	36	20	3
I Sep 2007	253	19	34	39	20	2
Summer 2007	936	60	94	108	60	9
S Oct 2007	251	19	24	30	17	2
T Nov 2007	252	19	18	22	12	2
O Dec 2007	334	15	19	22	13	3
R Jan 2008	330	19	25	31	15	2
I Feb 2008	247	18	26	35	14	2
C Mar 2008	299	19	14	16	9	2
Winter 2008	1714	110	126	156	80	14
A Apr 2008	280	20	38	55	23	2
L May 2008	333	39	52	92	23	4
* Jun 2008	348	68	40	63	22	7
Jul 2008	365	34	27	35	22	10
Aug 2008	376	33	36	43	22	7
Sep 2008	300	32	36	43	22	6
Summer 2008	2001	226	228	330	134	35
Oct 2008	298	20	28	34	17	6
Nov 2008	272	19	18	23	12	6
Dec 2008	335	20	25	31	16	6
Jan 2009	333	20	21	27	14	6
Feb 2009	290	18	19	24	12	5
Mar 2009	268	21	20	27	14	5
Winter 2009	1797	118	132	167	86	33
Apr 2009	268	20	19	28	15	6
May 2009	333	58	16	29	20	7
Jun 2009	388	56	18	29	21	9
Jul 2009	451	41	34	41	23	10
Aug 2009	450	41	36	43	22	8
Sep 2009	256	40	33	39	20	6
Summer 2009	2146	257	156	209	121	44
Oct 2009	256	41	25	31	16	7
Nov 2009	255	40	16	20	10	6
Dec 2009	340	41	23	29	15	6
Jan 2010	338	41	21	27	14	6
Feb 2010	337	37	17	23	12	5
Mar 2010	335	41	17	23	13	5
Winter 2010	1861	241	119	152	79	34
Apr 2010	376	40	20	30	16	6
May 2010	420	64	19	33	22	7
Jun 2010	448	59	20	31	22	9

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model_run_id = 2000
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## FLOOD CONTROL CRITERIA BEGINNING OF MONTH CONDITIONS

MON	YEAR	FLAMING	BLUE	LAKE	UPPER	BASIN	LAKE		FLAMING	BLUE		TOT OR	LAKE	LAKE		BOM	MEAD	MEAD	SYS
		GORGE	MESA	NAVAJO	POWELL	TOTAL	MEAD	TOTAL	GORGE	MESA	NAVAJO	MAX	POWELL	MEAD	TOTAL	SPACE	SCHED	FC	CONT
		KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	REQD	REL	REL	MAF
APR	2008	959	390	375	13520	15244	14440	29685	442	388	327	1157	13520	14440	29118	1500	1149	0	31.3
MAY	2008	869	447	228	13036	14580	14873	29453	345	447	163	955	13036	14873	28863	1500	1091	0	33.2
JUN	2008	715	269	114	11279	12377	15204	27581	179	269	17	465	11279	15204	26949	1500	892	0	35.6
JUL	2008	606	20	159	8998	9783	15382	25164	57	-10	15	62	8998	15382	24442	1500	900	0	36.0
		*	*	*	*	P R E D I C T E D	S P A C E	*	*	*	E F F E C T I V E	S P A C E	*	*	*	*	*	*	
AUG	2008	565	21	194	8533	9313	15488	24801	565	21	194	780	8533	15488	24801	1500	817	0	35.7
SEP	2008	589	36	218	8750	9593	15464	25057	589	36	218	843	8750	15464	25057	2270	707	0	35.3
OCT	2008	630	105	227	8940	9901	15437	25338	630	105	227	961	8940	15437	25338	3040	471	0	35.1
NOV	2008	662	161	245	8975	10042	15322	25364	662	161	245	1068	8975	15322	25364	3810	603	0	35.0
DEC	2008	695	195	261	9009	10160	15320	25480	695	195	261	1151	9009	15320	25480	4580	543	0	35.0
JAN	2009	743	248	286	9279	10556	15069	25626	743	248	286	1278	9279	15069	25626	5350	685	0	34.9
		*	*	*	*	C R E D I T A B L E	S P A C E	*	*	*	E F F E C T I V E	S P A C E	*	*	*	*	*	*	
JAN	2009	743	248	286	9279	10556	15069	25626	409	248	286	943	9279	15069	25291	5350	685	0	34.9
FEB	2009	788	298	296	9591	10973	14886	25859	451	298	296	1045	9591	14886	25522	1500	660	0	34.7
MAR	2009	820	341	294	9736	11190	14875	26066	480	341	294	1115	9736	14875	25726	1500	951	0	34.4
APR	2009	804	380	249	9761	11195	15171	26366	460	380	249	1090	9761	15171	26022	1500	1080	0	34.3
MAY	2009	749	374	148	9817	11088	15425	26514	398	374	148	920	9817	15425	26163	1500	1022	0	35.3
JUN	2009	618	230	45	9149	10043	15487	25529	256	223	45	524	9149	15487	25160	1500	838	0	37.0
JUL	2009	489	43	91	7872	8494	15359	23853	113	12	43	168	7872	15359	23399	1500	912	0	37.2
		*	*	*	*	C R E D I T A B L E	S P A C E	*	*	*	E F F E C T I V E	S P A C E	*	*	*	*	*	*	
AUG	2009	393	33	104	7799	8329	15225	23554	393	33	104	530	7799	15225	23554	1500	819	0	36.9
SEP	2009	418	78	130	8252	8878	14951	23829	418	78	130	626	8252	14951	23829	2270	698	0	36.5
OCT	2009	474	142	136	8435	9187	14932	24119	474	142	136	752	8435	14932	24119	3040	453	0	36.4
NOV	2009	528	184	136	8475	9324	14804	24128	528	184	136	848	8475	14804	24128	3810	568	0	36.3
DEC	2009	583	204	138	8516	9442	14777	24219	583	204	138	926	8516	14777	24219	4580	583	0	36.3
JAN	2010	654	254	148	8781	9837	14565	24402	654	254	148	1056	8781	14565	24402	5350	677	0	36.1
		*	*	*	*	E F F E C T I V E	S P A C E	*	*	*	E F F E C T I V E	S P A C E	*	*	*	*	*	*	
JAN	2010	654	254	148	8781	9837	14565	24402	307	253	148	708	8781	14565	24054	5350	677	0	36.1
FEB	2010	720	302	158	9073	10253	14373	24627	372	302	158	832	9073	14373	24278	1500	679	0	35.9
MAR	2010	773	340	156	9203	10472	14415	24887	423	340	156	919	9203	14415	24537	1500	995	0	35.5