

**Date: August 12, 2008**

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

**Current Status**

	July Inflow (unreg) (acre-feet)	Percent of Normal	Midnight Aug 11 Elevation	Reservoir Storage (acre-feet)
Fontenelle	173,000	81	6501.90	313,000
Flaming Gorge	188,000	73	6022.49	3,069,000
Blue Mesa	172,000	128	7511.21	756,000
Powell	1,672,000	107	3632.10	15,089,000
Navajo	79,000	94	6061.46	1,366,000

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**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>

The April 24 Month study projected an end of water year elevation at Lake Powell of 3639.81 feet, with an annual release volume of 8.23 million acre-feet, which was above the equalization level for 2008 (3636 feet above sea level). In accordance with 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 August 24 Month Study projects the annual release from Glen Canyon Dam to be 8.972 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.

**FONTENELLE** – Releases from Fontenelle are currently 1,700 cfs while inflows are averaging 1,100 cfs. The elevation of Fontenelle Reservoir is 6502.3 feet above sea level, about 3.7 feet from top of pool, or 92% full. The reservoir elevation reached its peak for water year 2008 on July 8, 2008 at an elevation of 6505.7 ft (approximately 4 inches from top of pool) and is now slowly declining.

Inflows so far for water year 2008 have been below average. During the April through July period Fontenelle received 582,000 acre-feet inflow, which is 68% of average. Despite the below average conditions, the reservoir still filled and bypasses were required

for 11 days during July. Bypasses are considered normal operations for Fontenelle reservoir.

Based on the latest inflow forecast from the Colorado Basin River Forecast Center, inflows will be slightly below average through the fall and winter months. Releases will be decreased later in August to approximately 1,000 cfs and will remain at, or near, that level through the winter season. Current modeling projects that the reservoir elevation will be approximately 6468 ft above sea level early next spring.

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. Spring and summer operations will be reviewed and future operations will be discussed. For more information about the Fontenelle Working Group, contact Ed Vidmar at 801-379-1182.

**FLAMING GORGE** – The average base flow release from Flaming Gorge is currently 1,500 cfs/day, and will remain at this level through September 30, 2008. The current off peak low is approximately 940 cfs with an afternoon peak of approximately 1,720 cfs. July observed unregulated inflow into Flaming Gorge reservoir was 188,000 acre-feet (AF), or 73 percent of average inflow. The total observed April through July unregulated inflow into Flaming Gorge Reservoir was 731,000 af (61 percent of average). The projected end of water year elevation of Flaming Gorge Reservoir is 6021.5 feet above sea level (87 percent live storage capacity).

Under the most probable scenario, average releases of 1,300 cfs will begin on October 1, 2008, and continue through February 28, 2009. Beginning March 1, 2009, releases will decrease to 800 cfs and will likely remain at that level until the beginning of the 2009 high spring peak release. Western Area Power Administration (Western) is working with the Utah Department of Wildlife Resources to study effects downstream of a double-peak fluctuating flow pattern. Reclamation will be considering an operation regime that includes double peaks during the winter months of water year 2009 depending on water availability.

Based on the hydrologic classification system implemented by the Flaming Gorge Record of Decision (ROD) and the 2008 observed April through July unregulated inflow to Flaming Gorge, the hydrologic classification is moderately dry. However, the Flaming Gorge Technical Working Group (FGTWG), which is comprised of representatives from the U.S. Fish and Wildlife Service, Western, and Reclamation, developed a proposal for the Green River during the base flow period. The FGTWG proposed to Reclamation that base flows in the Green River should fall within the average range to better match the flow conditions that occurred during the spring peak when average targets were achieved. The current release rate is maintaining flows in the Green River which fall within the average hydrologic condition.

The Flaming Gorge ROD implemented operational flexibility during the base flow period. The flexibility during the August through November base-flow period allows for daily flows to deviate from the seasonal average by  $\pm 40$  percent. During the December through February base-flow period, the daily flows should be within  $\pm 25$  percent of the seasonal average. Additionally, the mean daily flows should not exceed 3 percent variation between consecutive days and daily fluctuations due to power production at Flaming Gorge Dam should produce no more than a 0.1 meter daily stage change at Jensen, Utah.

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** – July unregulated inflow into Blue Mesa Reservoir was 172,500 acre-feet or 128 percent of average. The current inflow rate into Blue Mesa Reservoir is approximately 1,400 cfs while reservoir releases are averaging 1,900 cfs. Blue Mesa's present elevation is 7511.5 feet, which corresponds to a storage content of about 758,000 acre-feet. The observed April through July runoff into Blue Mesa Reservoir was recorded at 1,006,000 acre-feet, or 140 percent of normal. The reservoir reached a high elevation of 7511.9 feet on July 31, 2008, which was approximately 4.5 feet below “full” pool. Based on significantly high April to July inflow forecasts (153 percent of average in mid-May), Blue Mesa Reservoir was operated to provide an early high peak release in spring 2008. Late-season reductions in the forecast prompted decreased releases and slightly lower reservoir elevations near the end of runoff. The reservoir is considered full at elevations above 7516.4 feet. The top of the spillway gates is actually 7519.4 feet, but we rarely fill to that level due to safety concerns for the reservoir.

Releases from Crystal are currently set at 2,000 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 1,050 cfs, which results in a river flow below the diversion tunnel of approximately 1,050 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 decreased releases from Navajo Reservoir to 500 cubic feet per second (cfs) on June 25, 2008 and has kept them steady since then. Releases will remain at 500 cfs until changes are required based on 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 probable that increases in the release will be necessary later in the summer and fall 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.

July unregulated inflow into Navajo Reservoir was 79,000 acre-feet, or 94 percent of average. The total runoff for the 2008 season ending July (April-July) was recorded at 956,000 acre-feet, or about 122 percent of average runoff. The reservoir had a seasonal peak elevation of 6066.84 feet on May 25, 2008. Navajo Reservoir also provided a spring peak hydrograph of 5,000 cfs during the first two weeks of May.

Currently the daily reservoir inflow is averaging 800 cfs and reservoir releases to the San Juan River are set at 500 cfs. NIIP diversions are approximately 550 cfs. The reservoir water surface elevation is currently 6061.31 feet, which corresponds to a storage content of about 1,365,000 acre-feet.

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.

## **LAKE POWELL** –

### **Glen Canyon Dam Operations**

The monthly release volume in August 2008 is scheduled to be 890,000 acre-feet. Weekday releases will average about 14,700 cfs with afternoon peak releases to about 18,000 cfs and early morning lows to about 10,000 cfs. Weekend releases will average about 14,000 cfs with afternoon peak releases to about 17,750 cfs and early morning lows to about 10,000 cfs.

The release volume in September is being managed to achieve the objectives of the Equalization Tier of the Interim Guidelines. For water year 2008 the Equalization Tier calls for the annual release volume for Glen Canyon Dam to be managed as practicably

as possible to achieve a Lake Mead end of water year elevation of 1105 feet above sea level. In the August 24-month study, the release volume for September that achieves this objective is projected to be 717 KAF which is an average release rate of 12,050 cfs. A two month steady flow experiment will be conducted in September and October 2008. Once this steady flow experiment begins, releases during September will be steady and will not be adjusted. If necessary, Reclamation may make a final adjustment to the September release volume at the end of August 2008 to better achieve the objectives of the Equalization Tier. The October 2008 release volume will be scheduled to maintain consistent steady flows during the steady flow experiment.

The annual release volume for water year 2008 that is projected in the August 24-month study is 8.972 million acre-feet (maf) and the volume of equalization water (volume in excess of 8.23 maf) is 742 thousand acre-feet (kaf). The projected end of year elevation at Lake Powell is 3630.41 feet above sea level which is about 32 feet above the elevation at the beginning of water year 2008 (October 1, 2007). During water year 2008 the live storage in Lake Powell will likely have increased by nearly 3 maf and will likely end water year 2008 at 61% of full capacity. The April through July unregulated inflow to Lake Powell in water year 2008 was 8.84 maf which is 111% of 30-year average (1971-2000).

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

Precipitation in the basin above Lake Powell was above average in July (150% of average). The overall precipitation in the Upper Colorado River Basin for water year 2008 so far has been 105% of average.

The unregulated inflow to Lake Powell during the April through July period was 8.84 maf (111% of average). Unregulated inflow to Lake Powell over the next 3 months (August through October) is projected to be above average (106%). The long range outlook for water year 2009 projects that the most probable unregulated inflow to Lake Powell will be 91% of the 30-year average (1971-2000) however there is a wide range of uncertainty associated with these long range outlooks.

### **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 water year 2005 and 2008.

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 9 years (2000 through 2008, inclusive), inflow to Lake Powell has been below average in all but two years (2005 and 2008). Drought conditions have eased in water year 2008 with above average inflows to the main stem Colorado River reservoirs with the exception of Flaming Gorge and Fontenelle Reservoirs. 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 63 percent of capacity. Storage in Lake Mead is 49 percent 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 84138-1147

PHONE 801-524-3709

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RUNOFF PROJECTIONS AND INFLOW INFORMATION INTO UPPER BASIN RESERVOIRS PROVIDED BY THE COLORADO RIVER FORECASTING SERVICE THROUGH 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		1003	2645	3526	1672	107%:	700/	500/	550/	8846/:	112%
GBRW4: Fontenelle		53	132	224	173	81%:	70/	45/	45/	582/:	68%
GRNU1: Flaming Gorge		79	177	284	188	73%:	75/	50/	50/	728/:	61%
BMDC2: Blue Mesa		107	318	409	172	128%:	80/	50/	45/	1006/:	140%
MPSC2: Morrow Point		109	343	432	178	126%:	85/	50/	50/	1062/:	135%
CLSC2: Crystal		124	388	484	191	119%:	95/	57/	60/	1187/:	130%
TPIC2: Taylor Park		7.3	36	65	29	131%:	13.5/	9.5/	8/	137/:	133%
VCRC2: Vallecito		33	77	84	32	93%:	20/	15/	15/	226/:	110%
NVRN5: Navajo		242	328	307	79	94%:	45/	45/	40/	956/:	122%
LEMC2: Lemon		7.9	24	25	7.3	88%:	4/	4/	2.5/	64/:	110%
MPHC2: McPhee		106	142	104	24	77%:	15/	11/	7/	376/:	118%
RBSC2: Ridgway		13.1	26	56	38	135%:	/	/	/	133/:	130%

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 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
* Aug 2007	35	2	50	0	50	6486.48	205
H Sep 2007	25	1	27	16	43	6483.42	186
WY 2007	577	14	602	16	618		
I Oct 2007	33	1	37	6	44	6481.38	175
S Nov 2007	32	1	41	2	42	6479.48	164
T Dec 2007	27	1	43	0	44	6476.19	147
O Jan 2008	24	0	43	0	43	6472.00	128
R Feb 2008	25	0	40	1	41	6468.13	111
I Mar 2008	32	0	43	0	43	6465.20	100
C Apr 2008	53	1	42	0	42	6467.95	111
A May 2008	132	1	64	1	65	6481.73	177
L Jun 2008	224	2	100	0	101	6499.83	298
* Jul 2008	173	3	104	34	138	6503.99	330
Aug 2008	70	2	94	0	94	6500.60	304
Sep 2008	45	2	60	5	66	6497.58	281
WY 2008	870	14	712	50	762		
Oct 2008	45	1	68	0	68	6494.22	257
Nov 2008	44	1	66	0	66	6490.97	234
Dec 2008	33	1	68	0	68	6485.48	199
Jan 2009	31	1	68	0	68	6478.98	161
Feb 2009	29	0	61	0	61	6472.15	128
Mar 2009	53	0	68	0	68	6468.56	113
Apr 2009	90	1	83	0	83	6470.03	119
May 2009	190	1	100	5	105	6486.19	203
Jun 2009	301	2	104	99	202	6500.11	300
Jul 2009	185	3	101	41	141	6505.36	341
Aug 2009	84	2	92	0	92	6504.04	330
Sep 2009	50	2	58	11	69	6501.33	309
WY 2009	1135	15	937	155	1092		
Oct 2009	49	1	71	0	71	6498.18	285
Nov 2009	41	1	69	0	69	6494.17	257
Dec 2009	32	1	71	0	71	6488.18	216
Jan 2010	30	1	71	0	71	6481.34	174
Feb 2010	27	1	65	0	65	6473.87	136
Mar 2010	51	0	71	0	71	6469.11	115
Apr 2010	89	1	83	0	83	6470.32	120
May 2010	176	1	99	2	101	6484.65	194
Jun 2010	308	2	103	96	199	6500.16	300
Jul 2010	186	3	101	41	141	6505.54	342



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply 08-aug-2008 10:50:09  
 Flaming Gorge Reservoir

	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
* Aug 2007	32	46	12	51	0	51	86	6022.87	3082	0	66
H Sep 2007	23	40	10	49	0	49	85	6022.35	3063	0	72
WY 2007	744	784	77	777	0	777					2764
I Oct 2007	35	46	7	49	1	50	85	6022.07	3053	0	95
S Nov 2007	33	42	3	49	0	49	85	6021.81	3044	0	83
T Dec 2007	21	37	2	41	9	50	84	6021.40	3029	0	83
O Jan 2008	24	43	2	50	0	50	84	6021.15	3020	0	0
R Feb 2008	33	49	2	47	0	47	84	6021.15	3020	0	327
I Mar 2008	59	70	3	50	0	50	84	6021.55	3035	0	141
C Apr 2008	83	71	5	53	0	53	85	6021.85	3045	0	231
A May 2008	176	110	7	101	0	101	85	6021.85	3045	0	790
L Jun 2008	284	161	10	177	0	177	84	6021.15	3020	0	911
* Jul 2008	188	153	12	93	0	93	86	6022.43	3066	0	287
Aug 2008	75	99	12	92	0	92	85	6022.29	3061	0	92
Sep 2008	50	71	11	89	0	89	84	6021.51	3033	0	89
WY 2008	1061	953	76	893	10	903					3131
Oct 2008	50	73	7	80	0	80	84	6021.14	3020	0	80
Nov 2008	49	71	3	77	0	77	83	6020.87	3011	0	77
Dec 2008	33	68	2	80	0	80	83	6020.51	2997	0	80
Jan 2009	39	76	2	80	0	80	83	6020.35	2992	0	80
Feb 2009	44	76	2	72	0	72	83	6020.41	2994	0	72
Mar 2009	95	110	3	49	0	49	85	6021.97	3050	0	49
Apr 2009	134	127	5	48	0	48	88	6023.96	3122	0	48
May 2009	261	176	8	170	0	170	88	6023.90	3120	0	170
Jun 2009	359	260	10	125	0	125	92	6027.13	3240	0	125
Jul 2009	198	154	13	95	0	95	94	6028.29	3283	0	95
Aug 2009	90	98	13	95	0	95	94	6028.05	3274	0	95
Sep 2009	52	71	11	92	0	92	93	6027.23	3243	0	92
WY 2009	1404	1361	78	1065	0	1065					1065
Oct 2009	59	81	7	95	0	95	92	6026.69	3223	0	95
Nov 2009	51	79	3	92	0	92	91	6026.26	3207	0	92
Dec 2009	37	76	2	95	0	95	90	6025.73	3187	0	95
Jan 2010	41	82	2	95	0	95	90	6025.36	3173	0	95
Feb 2010	46	84	2	86	0	86	90	6025.23	3169	0	86
Mar 2010	103	123	3	95	0	95	91	6025.89	3193	0	95
Apr 2010	142	136	5	92	0	92	92	6026.89	3231	0	92
May 2010	263	188	8	188	0	188	92	6026.71	3224	0	188
Jun 2010	400	291	10	145	0	145	97	6030.13	3354	0	145
Jul 2010	219	174	14	117	0	117	99	6031.22	3396	0	117

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply  
Taylor Park Reservoir

08-aug-2008 10:50:09

	Regulated Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft
* Aug 2007	10	18	9318.20	84
H Sep 2007	8	14	9314.67	78
WY 2007	130	124		
I Oct 2007	7	7	9314.68	78
S Nov 2007	4	4	9314.68	78
T Dec 2007	5	5	9314.89	78
O Jan 2008	5	4	9315.09	78
R Feb 2008	4	4	9314.99	78
I Mar 2008	4	7	9313.24	75
C Apr 2008	7	19	9305.56	63
A May 2008	36	29	9310.30	70
L Jun 2008	65	40	9324.75	96
* Jul 2008	29	34	9322.03	91
Aug 2008	14	22	9317.34	82
Sep 2008	10	15	9314.15	77
WY 2008	190	191		
Oct 2008	8	10	9312.95	75
Nov 2008	6	6	9312.65	74
Dec 2008	4	6	9311.36	72
Jan 2009	4	6	9310.06	70
Feb 2009	4	6	9309.11	68
Mar 2009	4	6	9307.75	66
Apr 2009	9	10	9307.10	65
May 2009	30	13	9317.45	82
Jun 2009	47	29	9327.09	100
Jul 2009	19	20	9326.58	99
Aug 2009	10	20	9321.33	89
Sep 2009	8	15	9317.45	82
WY 2009	152	147		
Oct 2009	6	10	9315.15	78
Nov 2009	5	6	9314.56	77
Dec 2009	4	6	9313.28	75
Jan 2010	4	6	9311.98	73
Feb 2010	4	6	9311.02	72
Mar 2010	4	6	9309.68	69
Apr 2010	8	11	9307.75	66
May 2010	27	12	9316.88	81
Jun 2010	43	24	9327.09	100
Jul 2010	20	20	9327.09	100

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply 08-aug-2008 10:50:09  
 Blue Mesa Reservoir

	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
* Aug 2007	75	83	1	109	0	109	7510.40	749
H Sep 2007	50	56	1	117	0	117	7503.06	687
WY 2007	895	889	9	861	0	861		
I Oct 2007	48	48	1	85	0	85	7498.53	649
S Nov 2007	31	31	0	65	0	65	7494.31	615
T Dec 2007	33	33	0	67	0	67	7489.90	581
O Jan 2008	33	33	0	93	0	93	7481.92	520
R Feb 2008	31	31	0	97	0	97	7472.73	454
I Mar 2008	36	39	0	53	0	53	7470.50	439
C Apr 2008	107	119	1	147	0	147	7466.24	411
A May 2008	318	312	1	199	50	250	7475.27	472
L Jun 2008	409	383	1	143	20	163	7503.56	691
* Jul 2008	172	176	1	103	0	103	7511.87	762
Aug 2008	80	88	1	115	0	115	7508.69	735
Sep 2008	50	55	1	109	0	109	7502.26	680
WY 2008	1348	1349	8	1277	70	1348		
Oct 2008	45	47	1	73	0	73	7499.04	653
Nov 2008	34	34	0	49	0	49	7497.23	639
Dec 2008	28	30	0	87	0	87	7490.00	581
Jan 2009	28	30	0	87	0	87	7482.49	524
Feb 2009	25	27	0	74	0	74	7475.90	477
Mar 2009	38	40	0	74	0	74	7470.96	442
Apr 2009	79	80	1	74	0	74	7471.74	448
May 2009	217	200	1	70	0	70	7489.40	577
Jun 2009	298	280	1	55	0	55	7516.15	800
Jul 2009	113	114	2	110	0	110	7516.40	802
Aug 2009	64	74	1	118	0	118	7511.31	757
Sep 2009	38	45	1	105	0	105	7504.20	696
WY 2009	1007	1001	9	977	0	977		
Oct 2009	35	39	1	80	0	80	7499.20	655
Nov 2009	31	32	0	50	0	50	7496.95	637
Dec 2009	25	27	0	82	0	82	7490.00	581
Jan 2010	24	26	0	73	0	73	7483.84	534
Feb 2010	22	24	0	62	0	62	7478.58	496
Mar 2010	34	36	0	62	0	62	7474.89	469
Apr 2010	73	76	1	64	0	64	7476.50	481
May 2010	212	197	1	65	0	65	7493.87	612
Jun 2010	271	252	1	69	0	69	7515.39	793
Jul 2010	121	121	2	110	0	110	7516.40	802

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

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 Morrow Point Reservoir

	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
* Aug 2007	67	109	-8	101	0	100	0	100	7154.39	113
H Sep 2007	41	117	-8	109	0	107	0	107	7156.75	114
WY 2007	883	861	-12	848	1	839	0	839		
I Oct 2007	43	85	-5	80	0	85	0	85	7150.81	110
S Nov 2007	28	65	-3	62	0	63	0	63	7149.32	109
T Dec 2007	31	67	-3	65	0	62	0	62	7152.91	111
O Jan 2008	29	93	-4	89	0	87	0	87	7156.26	114
R Feb 2008	26	97	-5	92	0	99	0	99	7146.95	107
I Mar 2008	34	53	-2	52	0	45	0	45	7155.12	113
C Apr 2008	109	147	1	148	0	153	0	153	7149.81	109
A May 2008	343	250	25	275	0	255	24	278	7144.87	105
L Jun 2008	432	163	23	186	0	177	4	180	7152.31	111
* Jul 2008	178	103	6	109	0	108	0	108	7152.94	111
Aug 2008	85	115	5	120	0	119	0	119	7153.73	112
Sep 2008	50	109	0	109	0	109	0	109	7153.73	112
WY 2008	1388	1348	39	1387	1	1361	27	1389		
Oct 2008	50	73	5	78	0	78	0	78	7153.73	112
Nov 2008	35	49	1	50	0	50	0	50	7153.73	112
Dec 2008	30	87	2	89	0	89	0	89	7153.73	112
Jan 2009	30	87	2	89	0	89	0	89	7153.73	112
Feb 2009	28	74	3	77	0	77	0	77	7153.73	112
Mar 2009	43	74	5	79	0	79	0	79	7153.73	112
Apr 2009	93	74	14	88	0	88	0	88	7153.73	112
May 2009	245	70	28	98	0	98	0	98	7153.73	112
Jun 2009	328	55	30	85	0	85	0	85	7153.73	112
Jul 2009	120	110	7	117	0	117	0	117	7153.73	112
Aug 2009	67	118	3	121	0	121	0	121	7153.73	112
Sep 2009	41	105	3	108	0	108	0	108	7153.73	112
WY 2009	1110	977	103	1080	0	1080	0	1080		
Oct 2009	38	80	3	83	0	83	0	83	7153.73	112
Nov 2009	33	50	2	52	0	52	0	52	7153.73	112
Dec 2009	27	82	2	84	0	84	0	84	7153.73	112
Jan 2010	26	73	2	75	0	75	0	75	7153.73	112
Feb 2010	25	62	3	65	0	65	0	65	7153.73	112
Mar 2010	38	62	4	66	0	66	0	66	7153.73	112
Apr 2010	84	64	11	75	0	75	0	75	7153.73	112
May 2010	237	65	25	90	0	90	0	90	7153.73	112
Jun 2010	292	69	21	90	0	90	0	90	7153.73	112
Jul 2010	127	110	6	116	0	116	0	116	7153.73	112

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

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 Crystal Reservoir

	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
* Aug 2007	74	100	7	107	108	0	108	6744.63	15	63	51
H 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
I Oct 2007	48	85	5	90	90	0	90	6745.51	15	38	54
S Nov 2007	32	63	4	67	66	0	66	6748.78	16	1	70
T Dec 2007	35	62	5	67	68	0	68	6742.95	14	1	73
O Jan 2008	34	87	5	91	77	13	90	6748.45	16	1	94
R Feb 2008	30	99	4	103	72	31	103	6749.17	16	1	108
I Mar 2008	41	45	6	52	52	0	52	6749.59	16	1	54
C Apr 2008	124	153	16	168	127	40	168	6751.31	16	23	150
A May 2008	388	278	45	323	130	191	321	6760.22	19	54	275
L Jun 2008	484	180	52	232	118	116	234	6753.95	17	47	196
* Jul 2008	191	108	13	121	123	0	123	6747.80	15	62	72
Aug 2008	95	119	10	129	128	0	128	6753.04	17	65	63
Sep 2008	57	109	7	116	116	0	116	6753.04	17	55	61
WY 2008	1559	1389	172	1560	1167	391	1558			349	1270
Oct 2008	60	78	10	88	88	0	88	6753.04	17	30	58
Nov 2008	42	50	7	57	57	0	57	6753.04	17	0	57
Dec 2008	35	89	5	94	94	0	94	6753.04	17	0	94
Jan 2009	34	89	4	93	93	0	93	6753.04	17	0	93
Feb 2009	32	77	4	81	81	0	81	6753.04	17	0	81
Mar 2009	51	79	8	87	87	0	87	6753.04	17	5	82
Apr 2009	107	88	14	102	102	0	102	6753.04	17	30	72
May 2009	280	98	35	133	133	0	133	6753.04	17	55	78
Jun 2009	372	85	44	129	129	0	129	6753.04	17	60	69
Jul 2009	135	117	15	132	132	0	132	6753.04	17	65	67
Aug 2009	76	121	9	130	130	0	130	6753.04	17	65	65
Sep 2009	49	108	8	116	116	0	116	6753.04	17	55	61
WY 2009	1273	1080	163	1242	1242	0	1242			365	878
Oct 2009	44	83	6	89	89	0	89	6753.04	17	30	59
Nov 2009	38	52	5	57	57	0	57	6753.04	17	0	57
Dec 2009	32	84	5	89	89	0	89	6753.04	17	0	89
Jan 2010	31	75	5	80	80	0	80	6753.04	17	0	80
Feb 2010	29	65	4	69	69	0	69	6753.04	17	0	69
Mar 2010	46	66	8	74	74	0	74	6753.04	17	5	69
Apr 2010	96	75	12	87	87	0	87	6753.04	17	30	57
May 2010	272	90	35	125	125	0	125	6753.04	17	55	70
Jun 2010	330	90	38	128	128	0	128	6753.04	17	60	68
Jul 2010	144	116	17	133	133	0	133	6753.04	17	65	68

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 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
* Aug 2007	27	34	7654.84	99
H Sep 2007	18	34	7648.41	83
WY 2007	330	327		
I Oct 2007	15	31	7641.28	67
S Nov 2007	7	4	7642.40	69
T Dec 2007	8	3	7644.42	74
O Jan 2008	6	4	7645.29	76
R Feb 2008	6	17	7640.08	65
I Mar 2008	11	36	7626.73	39
C Apr 2008	33	29	7628.85	43
A May 2008	77	38	7647.76	82
L Jun 2008	84	43	7663.79	122
* Jul 2008	32	40	7660.68	114
Aug 2008	20	39	7652.85	94
Sep 2008	15	33	7645.13	76
WY 2008	314	318		
Oct 2008	15	20	7643.03	71
Nov 2008	8	6	7643.88	73
Dec 2008	7	5	7644.92	75
Jan 2009	6	5	7645.50	76
Feb 2009	5	4	7645.83	77
Mar 2009	8	5	7647.21	80
Apr 2009	20	12	7650.45	88
May 2009	70	43	7660.95	115
Jun 2009	76	65	7664.95	125
Jul 2009	28	43	7659.07	110
Aug 2009	18	40	7650.10	87
Sep 2009	18	30	7644.82	75
WY 2009	279	276		
Oct 2009	13	20	7641.80	68
Nov 2009	8	6	7642.67	70
Dec 2009	6	5	7643.27	71
Jan 2010	5	5	7643.42	72
Feb 2010	5	4	7643.76	72
Mar 2010	8	5	7645.18	76
Apr 2010	22	12	7649.34	85
May 2010	69	43	7659.55	111
Jun 2010	78	65	7664.33	124
Jul 2010	31	43	7659.58	111

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply  
Navajo Reservoir

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	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 Elevation EOM Feet	Live Storage 1000 Ac-Ft	Farm Flow 1000 Ac-Ft
* Aug 2007	61	7	59	4	33	48	6074.98	1551	82
H Sep 2007	27	2	41	3	23	56	6072.10	1510	80
WY 2007	1096	119	974	31	192	660			1160
I Oct 2007	41	0	57	2	10	46	6072.01	1509	79
S Nov 2007	19	0	17	1	1	43	6070.07	1482	57
T Dec 2007	46	0	40	1	0	42	6069.89	1479	67
O Jan 2008	26	0	24	1	0	47	6068.19	1456	69
R Feb 2008	38	0	48	1	0	122	6062.59	1381	160
I Mar 2008	147	6	167	2	6	219	6057.91	1321	284
C Apr 2008	242	27	218	2	21	156	6060.97	1360	240
A May 2008	328	45	243	4	31	149	6065.54	1420	303
L Jun 2008	307	49	214	4	39	221	6061.77	1370	411
* Jul 2008	82	14	74	4	40	32	6061.63	1369	103
Aug 2008	45	5	60	4	39	35	6060.22	1351	35
Sep 2008	45	1	62	3	23	31	6060.69	1357	31
WY 2008	1364	147	1226	28	210	1142			1839
Oct 2008	40	0	44	2	7	31	6061.11	1362	31
Nov 2008	32	0	30	1	0	30	6061.05	1361	30
Dec 2008	26	0	24	1	0	31	6060.44	1353	31
Jan 2009	24	0	23	1	0	31	6059.75	1345	31
Feb 2009	33	0	32	1	0	28	6060.03	1348	28
Mar 2009	102	4	94	2	4	31	6064.52	1406	31
Apr 2009	166	13	145	3	16	30	6071.63	1503	30
May 2009	287	33	227	4	30	149	6074.77	1548	149
Jun 2009	245	40	194	5	45	182	6072.08	1510	182
Jul 2009	61	13	63	5	49	31	6070.56	1488	31
Aug 2009	36	13	45	4	41	36	6067.99	1453	36
Sep 2009	44	4	52	3	24	32	6067.54	1447	32
WY 2009	1096	119	974	29	215	640			640
Oct 2009	38	0	45	2	7	31	6067.94	1452	31
Nov 2009	33	0	31	1	0	30	6067.96	1453	30
Dec 2009	24	0	23	1	0	31	6067.31	1444	31
Jan 2010	22	0	22	1	0	31	6066.58	1434	31
Feb 2010	30	0	29	1	0	28	6066.62	1434	28
Mar 2010	88	4	80	2	4	31	6069.85	1478	31
Apr 2010	174	13	151	3	16	34	6076.79	1577	34
May 2010	279	33	220	4	30	200	6075.83	1563	200
Jun 2010	246	40	193	5	45	212	6070.98	1494	212
Jul 2010	74	13	73	5	49	31	6070.18	1483	31

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

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 Lake Powell

	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 Elevation EOM Feet	Bank Storage 1000 Ac-Ft	EOM Storage 1000 Ac-Ft	Lees Ferry 1000 Ac-Ft
* Aug 2007	378	437	52	804	0	804	3603.58	18278	12095	818
H Sep 2007	296	454	47	604	0	604	3601.87	18246	11929	617
WY 2007	8213	8077	371	8230	0	8231				8397
I Oct 2007	467	540	32	601	0	601	3600.62	18273	11809	612
S Nov 2007	397	470	31	603	0	603	3598.63	18298	11620	615
T Dec 2007	398	455	24	803	0	803	3594.64	18299	11246	814
O Jan 2008	336	440	7	801	0	801	3590.66	18296	10880	813
R Feb 2008	412	568	8	602	0	602	3590.66	18254	10880	613
I Mar 2008	589	717	13	737	93	830	3589.77	18208	10800	848
C Apr 2008	1003	983	21	678	0	678	3594.09	18098	11195	691
A May 2008	2644	2384	27	790	0	790	3610.81	18048	12812	808
L Jun 2008	3525	3239	49	791	0	791	3631.05	18288	14971	810
* Jul 2008	1672	1393	63	865	0	865	3633.00	18532	15192	887
Aug 2008	700	784	54	890	0	890	3631.69	18520	15043	890
Sep 2008	500	607	47	717	0	717	3630.41	18508	14899	717
WY 2008	12642	12579	378	8879	93	8972				9119
Oct 2008	550	605	42	717	0	717	3629.14	18497	14756	717
Nov 2008	502	543	35	600	0	600	3628.37	18490	14671	600
Dec 2008	406	517	29	800	0	800	3625.75	18467	14383	800
Jan 2009	383	490	21	800	0	800	3622.92	18442	14076	800
Feb 2009	399	471	20	700	0	700	3620.77	18424	13845	700
Mar 2009	629	556	25	660	0	660	3619.65	18414	13726	660
Apr 2009	866	667	28	659	0	659	3619.47	18413	13707	659
May 2009	2147	1834	39	800	0	800	3627.99	18487	14629	800
Jun 2009	2866	2412	47	800	0	800	3640.63	18602	16077	800
Jul 2009	1306	1232	55	956	0	956	3642.34	18619	16282	956
Aug 2009	524	637	57	956	0	956	3639.41	18591	15934	956
Sep 2009	420	542	49	600	0	600	3638.57	18583	15835	600
WY 2009	10998	10506	446	9048	0	9048				9048
Oct 2009	556	637	44	601	0	601	3638.51	18582	15827	601
Nov 2009	551	608	37	600	0	600	3638.28	18580	15801	600
Dec 2009	440	562	30	800	0	800	3636.15	18560	15553	800
Jan 2010	406	518	23	900	0	900	3632.88	18530	15178	900
Feb 2010	421	499	21	800	0	800	3630.24	18507	14880	800
Mar 2010	663	634	26	800	0	800	3628.65	18492	14702	800
Apr 2010	984	814	29	1000	0	1000	3626.84	18476	14502	1000
May 2010	2309	2071	40	1100	0	1100	3634.51	18545	15364	1100
Jun 2010	3085	2679	49	1160	0	1160	3646.02	18654	16726	1160
Jul 2010	1559	1465	57	1285	0	1285	3646.95	18663	16839	1285



OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

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 Hoover Dam - Lake Mead

	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
* Aug 2007	804	138	80	803	13.1	33	801	818	1111.84	12578
H Sep 2007	604	63	66	656	11.0	24	653	813	1111.06	12505
WY 2007	8231	677	633	9450		297	9420			
I Oct 2007	601	32	48	570	9.3	26	564	812	1110.95	12494
S Nov 2007	603	67	48	576	9.7	19	575	814	1111.22	12520
T Dec 2007	803	95	42	477	7.8	17	467	836	1114.81	12860
O Jan 2008	801	88	34	672	10.9	14	659	846	1116.46	13017
R Feb 2008	602	147	32	659	11.5	11	658	849	1116.93	13062
I Mar 2008	830	116	35	1025	16.7	17	1023	841	1115.65	12940
C Apr 2008	678	40	44	1159	19.5	25	1155	810	1110.61	12463
A May 2008	790	47	49	1113	18.1	27	1110	789	1107.05	12132
L Jun 2008	791	39	59	949	15.9	25	949	776	1104.98	11941
* Jul 2008	865	66	73	876	14.2	37	874	773	1104.42	11890
Aug 2008	890	115	78	823	13.4	35	823	777	1105.13	11955
Sep 2008	717	79	64	716	12.0	29	716	776	1105.00	11943
WY 2008	8972	931	606	9613		283	9572			
Oct 2008	717	68	47	516	8.4	29	516	788	1106.96	12123
Nov 2008	600	68	47	531	8.9	18	531	792	1107.68	12190
Dec 2008	800	61	41	538	8.8	12	538	809	1110.41	12444
Jan 2009	800	126	34	680	11.1	12	680	821	1112.41	12632
Feb 2009	700	116	31	641	11.5	12	641	829	1113.71	12755
Mar 2009	660	87	35	913	14.9	16	913	816	1111.54	12550
Apr 2009	659	74	43	1070	18.0	22	1070	791	1107.49	12173
May 2009	800	65	49	1030	16.7	35	1030	776	1104.96	11939
Jun 2009	800	16	58	848	14.3	34	848	768	1103.68	11823
Jul 2009	956	57	73	912	14.8	33	912	768	1103.63	11819
Aug 2009	956	115	78	820	13.3	30	820	777	1105.10	11953
Sep 2009	600	79	64	593	10.0	33	593	776	1105.00	11943
WY 2009	9048	931	599	9093		287	9093			
Oct 2009	601	68	47	408	6.6	31	408	787	1106.87	12115
Nov 2009	600	68	47	490	8.2	23	490	794	1107.96	12216
Dec 2009	800	61	41	616	10.0	11	616	806	1109.91	12397
Jan 2010	900	128	34	754	12.3	12	754	820	1112.19	12611
Feb 2010	800	78	31	894	16.1	12	894	816	1111.59	12555
Mar 2010	800	76	35	1011	16.4	16	1011	805	1109.73	12381
Apr 2010	1000	63	43	1034	17.4	22	1034	803	1109.37	12347
May 2010	1100	17	49	981	16.0	35	981	806	1109.88	12395
Jun 2010	1160	55	60	877	14.7	34	877	821	1112.33	12625
Jul 2010	1285	115	76	795	12.9	33	795	851	1117.21	13090

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 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
* Aug 2007	803	-29	786	0	786	12.8	642.45	1684
H Sep 2007	656	-18	777	0	777	13.0	637.26	1545
WY 2007	9450	-249	9241	0	9241			
I Oct 2007	570	-14	635	0	635	10.3	634.21	1465
S Nov 2007	576	-17	516	0	516	8.7	635.89	1509
T Dec 2007	477	-24	396	0	396	6.4	638.03	1565
O Jan 2008	672	-27	547	0	547	8.9	641.68	1663
R Feb 2008	659	-12	717	0	717	12.5	639.09	1593
I Mar 2008	1025	-26	974	0	974	15.8	640.01	1618
C Apr 2008	1159	-23	1104	0	1104	18.6	641.20	1650
A May 2008	1113	-45	993	0	993	16.2	643.95	1725
L Jun 2008	949	-34	932	0	932	15.7	643.36	1709
* Jul 2008	876	-23	896	0	896	14.6	641.79	1666
Aug 2008	823	-25	806	0	806	13.1	641.50	1658
Sep 2008	716	-18	792	0	792	13.3	638.00	1564
WY 2008	9613	-286	9307	0	9307			
Oct 2008	516	-2	644	0	644	10.5	633.00	1434
Nov 2008	531	-16	490	0	490	8.2	634.00	1460
Dec 2008	538	-19	396	0	396	6.4	638.71	1583
Jan 2009	680	-20	576	0	576	9.4	641.80	1666
Feb 2009	641	-14	627	0	627	11.3	641.80	1666
Mar 2009	913	-25	854	0	854	13.9	643.05	1700
Apr 2009	1070	-30	1042	0	1042	17.5	643.01	1699
May 2009	1030	-33	997	0	997	16.2	643.01	1699
Jun 2009	848	-27	849	0	849	14.3	642.00	1671
Jul 2009	912	-25	901	0	901	14.6	641.50	1658
Aug 2009	820	-25	795	0	795	12.9	641.50	1658
Sep 2009	593	-18	669	0	669	11.2	638.00	1564
WY 2009	9093	-253	8840	0	8840			
Oct 2009	408	-2	536	0	536	8.7	633.00	1434
Nov 2009	490	-16	449	0	449	7.5	634.00	1460
Dec 2009	616	-19	474	0	474	7.7	638.71	1583
Jan 2010	754	-16	655	0	655	10.7	641.80	1666
Feb 2010	894	-23	872	0	872	15.7	641.80	1666
Mar 2010	1011	-31	946	0	946	15.4	643.05	1700
Apr 2010	1034	-32	1003	0	1003	16.9	643.01	1699
May 2010	981	-28	953	0	953	15.5	643.01	1699
Jun 2010	877	-24	880	0	880	14.8	642.00	1671
Jul 2010	795	-25	784	0	784	12.7	641.50	1658

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply 08-aug-2008 10:50:09  
 Parker Dam - Lake Havasu

	Davis Release 1000 Ac-Ft	Side Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Total Release 1000 CFS	MWD Diversion 1000 Ac-Ft	CAP diversion 1000 Ac-Ft	Reservoir Elevation EOM Feet	EOM Storage 1000 Ac-Ft	Flow_to Mexico 1000 Ac-Ft	Flow_to Mexico 1000 CFS
* Aug 2007	786	-13	634	10.3	98	42	448.28	585	97	1.6
H Sep 2007	777	-7	555	9.3	91	134	447.77	576	92	1.5
WY 2007	9241	-94	6803		689	1632			1514	
I Oct 2007	635	2	455	7.4	27	164	447.28	566	80	1.3
S Nov 2007	516	3	336	5.6	29	147	447.65	573	103	1.7
T Dec 2007	396	10	270	4.4	35	118	446.77	557	126	2.1
O Jan 2008	547	5	306	5.0	81	167	446.67	555	132	2.1
R Feb 2008	717	-11	486	8.4	67	157	446.44	551	155	2.7
I Mar 2008	974	-15	744	12.1	46	168	446.47	551	205	3.3
C Apr 2008	1104	-10	838	14.1	76	166	447.25	566	202	3.4
A May 2008	993	-11	684	11.1	96	172	448.84	596	113	1.8
L Jun 2008	932	-25	691	11.6	93	126	448.62	592	116	1.9
* Jul 2008	896	-18	728	11.8	87	78	447.86	577	122	2.0
Aug 2008	806	-11	630	10.2	85	77	448.00	580	93	1.5
Sep 2008	792	-12	563	9.5	83	156	446.80	557	89	1.5
WY 2008	9307	-93	6730		806	1697			1535	
Oct 2008	644	3	469	7.6	86	102	446.31	548	74	1.2
Nov 2008	490	11	380	6.4	41	76	446.50	552	103	1.7
Dec 2008	396	10	306	5.0	36	64	446.50	552	118	1.9
Jan 2009	576	23	348	5.7	82	170	446.50	552	119	1.9
Feb 2009	627	32	444	8.0	62	153	446.50	552	154	2.8
Mar 2009	854	31	694	11.3	19	168	446.70	555	204	3.3
Apr 2009	1042	-4	761	12.8	77	162	448.71	594	200	3.4
May 2009	997	-14	723	11.8	97	163	448.71	594	109	1.8
Jun 2009	849	-24	676	11.4	94	54	448.71	594	113	1.9
Jul 2009	901	-17	729	11.9	86	83	448.00	580	119	1.9
Aug 2009	795	-11	630	10.2	86	78	447.50	571	93	1.5
Sep 2009	669	-12	461	7.8	83	126	446.81	557	89	1.5
WY 2009	8840	26	6621		847	1399			1497	
Oct 2009	536	3	373	6.1	86	89	446.31	548	74	1.2
Nov 2009	449	11	308	5.2	27	122	446.50	552	103	1.7
Dec 2009	474	10	337	5.5	26	121	446.50	552	122	2.0
Jan 2010	655	35	433	7.0	82	176	446.50	552	119	1.9
Feb 2010	872	28	680	12.2	62	158	446.50	552	154	2.8
Mar 2010	946	-4	746	12.1	19	174	446.70	555	204	3.3
Apr 2010	1003	-14	707	11.9	77	167	448.71	594	200	3.4
May 2010	953	-25	662	10.8	97	168	448.71	594	109	1.8
Jun 2010	880	-16	714	12.0	94	56	448.71	594	113	1.9
Jul 2010	784	-11	615	10.0	86	86	448.00	580	119	1.9

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply 08-aug-2008 10:50:09  
 Hoover Dam - Lake Mead

	Power Release 1000 Ac-Ft	Power Release 1000 CFS	EOM Reservoir Elevation Feet	EOM Storage 1000 Ac-Ft	Change_In Storage 1000 Ac-Ft	Hoover Static Head Feet	Hoover Generator Capacity MW	Hoover Gross Energy MKWH	Percent Of Units Available	KWH/AF
* Aug 2007	803	13.1	1111.84	12578	24	0.00	1704.0	315.2	100	392.6
H Sep 2007	656	11.0	1111.06	12505	-73	0.00	1500.0	252.9	88	385.6
WY 2007	9450							3826.0		
I Oct 2007	570	9.3	1110.95	12494	-10	0.00	1363.0	219.9	80	385.9
S Nov 2007	575	9.7	1111.22	12520	25	0.00	1056.0	225.1	62	391.4
T Dec 2007	477	7.8	1114.81	12860	340	0.00	1074.0	183.5	63	385.0
O Jan 2008	672	10.9	1116.46	13017	158	0.00	1183.4	268.3	69	399.2
R Feb 2008	659	11.5	1116.93	13062	45	0.00	1093.0	266.5	63	404.5
I Mar 2008	1025	16.7	1115.65	12940	-123	0.00	1218.0	420.7	70	410.6
C Apr 2008	1159	19.5	1110.61	12463	-477	0.00	1398.1	475.9	81	410.7
A May 2008	1113	18.1	1107.05	12132	-331	0.00	1481.6	445.7	87	400.5
L Jun 2008	949	15.9	1104.98	11941	-190	0.00	1694.0	371.6	100	391.7
* Jul 2008	876	14.2	1104.42	11890	-51	0.00	1672.0	344.2	100	392.8
Aug 2008	823	13.4	1105.13	11955	65	451.98	1678.0	335.6	100	407.9
Sep 2008	716	12.0	1105.00	11943	-12	453.50	1677.0	289.0	100	403.7
WY 2008	9612							3846.1		
Oct 2008	516	8.4	1106.96	12123	180	460.80	1029.1	213.7	61	413.8
Nov 2008	531	8.9	1107.68	12190	67	463.01	1150.6	215.3	68	405.3
Dec 2008	538	8.8	1110.41	12444	254	461.65	1400.6	215.4	82	400.3
Jan 2009	680	11.1	1112.41	12632	188	462.22	1289.2	278.6	75	409.9
Feb 2009	641	11.5	1113.71	12755	123	464.28	1069.5	268.1	62	418.1
Mar 2009	913	14.9	1111.54	12550	-205	461.24	1401.4	379.6	82	415.6
Apr 2009	1070	18.0	1107.49	12173	-378	458.41	1281.4	449.9	76	420.5
May 2009	1030	16.7	1104.96	11939	-233	452.53	1672.0	416.0	100	403.9
Jun 2009	848	14.3	1103.68	11823	-116	450.97	1672.0	347.8	100	410.0
Jul 2009	912	14.8	1103.63	11819	-4	450.80	1677.0	367.6	100	403.1
Aug 2009	820	13.3	1105.10	11953	134	451.67	1691.0	334.1	100	407.5
Sep 2009	593	10.0	1105.00	11943	-9	453.49	1684.0	237.2	100	400.0
WY 2009	9093							3723.4		
Oct 2009	408	6.6	1106.87	12115	172	458.46	1387.4	161.3	82	395.4
Nov 2009	490	8.2	1107.96	12216	101	461.57	1389.1	200.9	82	410.0
Dec 2009	616	10.0	1109.91	12397	182	460.22	1604.6	249.9	94	405.9
Jan 2010	754	12.3	1112.19	12611	214	461.86	1280.2	313.6	75	415.8
Feb 2010	894	16.1	1111.59	12555	-56	463.12	1058.3	379.6	62	424.5
Mar 2010	1011	16.4	1109.73	12381	-174	459.28	1399.7	417.8	82	413.2
Apr 2010	1034	17.4	1109.37	12347	-33	458.44	1297.3	432.5	76	418.4
May 2010	981	16.0	1109.88	12395	48	455.91	1707.0	403.5	100	411.3
Jun 2010	877	14.7	1112.33	12625	230	457.71	1707.0	357.9	100	408.3
Jul 2010	795	12.9	1117.21	13090	466	461.84	1707.0	329.1	100	414.0

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply  
 Davis Dam - Lake Mohave

08-aug-2008 10:50:09

	Power Release 1000 Ac-Ft	Power Release 1000 CFS	EOM Reservoir Elevation Feet	EOM Storage 1000 Ac-Ft	Change_In Storage 1000 Ac-Ft	Davis Static Head Feet	Davis Generator Capacity MW	Davis Gross Energy MKWH	Percent Of Units Available	KWH/AF
* Aug 2007	786	12.8	642.45	1684	-12	0.00	255.0	99.2	100	126.3
H Sep 2007	777	13.0	637.26	1545	-139	0.00	240.0	95.9	94	123.5
WY 2007	9241							1148.3		
I Oct 2007	635	10.3	634.21	1465	-79	0.00	201.0	76.0	79	119.8
S Nov 2007	516	8.7	635.89	1509	43	0.00	171.0	61.8	67	119.8
T Dec 2007	396	6.4	638.03	1565	56	0.00	181.0	48.9	71	123.4
O Jan 2008	547	8.9	641.68	1663	98	0.00	158.1	67.9	62	124.1
R Feb 2008	717	12.5	639.09	1593	-70	0.00	191.2	88.7	75	123.8
I Mar 2008	974	15.8	640.01	1618	25	0.00	227.0	120.5	89	123.7
C Apr 2008	1104	18.6	641.20	1650	32	0.00	255.0	135.8	100	123.0
A May 2008	993	16.2	643.95	1725	75	0.00	255.0	123.5	100	124.4
L Jun 2008	932	15.7	643.36	1709	-16	0.00	255.0	117.8	100	126.5
* Jul 2008	896	14.6	641.79	1666	-43	0.00	255.0	111.7	100	124.6
Aug 2008	806	13.1	641.50	1658	-8	134.62	255.0	100.5	100	124.7
Sep 2008	792	13.3	638.00	1564	-94	133.86	211.7	97.3	83	122.9
WY 2008	9307							1150.5		
Oct 2008	644	10.5	633.00	1434	-130	130.22	186.2	77.3	73	120.1
Nov 2008	490	8.2	634.00	1460	26	128.12	186.2	58.4	73	119.1
Dec 2008	396	6.4	638.71	1583	123	131.81	165.8	48.5	65	122.4
Jan 2009	576	9.4	641.80	1666	83	135.36	181.0	71.9	71	124.7
Feb 2009	627	11.3	641.80	1666	0	135.63	224.4	78.6	88	125.4
Mar 2009	854	13.9	643.05	1700	34	135.44	255.0	106.9	100	125.1
Apr 2009	1042	17.5	643.01	1699	-1	136.08	255.0	129.7	100	124.6
May 2009	997	16.2	643.01	1699	0	136.05	255.0	124.5	100	124.9
Jun 2009	849	14.3	642.00	1671	-28	135.52	255.0	106.1	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	99.1	100	124.6
Sep 2009	669	11.2	638.00	1564	-94	132.63	255.0	82.6	100	123.6
WY 2009	8840							1095.7		
Oct 2009	536	8.7	633.00	1434	-130	128.15	255.0	64.7	100	120.7
Nov 2009	449	7.5	634.00	1460	26	126.03	255.0	53.6	100	119.4
Dec 2009	474	7.7	638.71	1583	123	129.41	242.3	57.8	95	121.9
Jan 2010	655	10.7	641.80	1666	83	133.93	227.0	81.4	89	124.3
Feb 2010	872	15.7	641.80	1666	0	134.78	255.0	108.1	100	124.0
Mar 2010	946	15.4	643.05	1700	34	135.44	255.0	118.0	100	124.6
Apr 2010	1003	16.9	643.01	1699	-1	136.08	255.0	125.1	100	124.7
May 2010	953	15.5	643.01	1699	0	136.05	255.0	119.3	100	125.1
Jun 2010	880	14.8	642.00	1671	-28	135.52	255.0	109.9	100	124.9
Jul 2010	784	12.7	641.50	1658	-14	134.73	255.0	97.9	100	124.9

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply 08-aug-2008 10:50:09  
 Parker Dam - Lake Havasu

	Power Release 1000 Ac-Ft	Power Release 1000 CFS	EOM Reservoir Elevation Feet	EOM Storage 1000 Ac-Ft	Change_In Storage 1000 Ac-Ft	Parker Static Head Feet	Parker Generator Capacity MW	Parker Gross Energy MKWH	Percent Of Units Available	KWH/AF
* Aug 2007	634	10.3	448.28	585	-1	0.00	120.0	43.0	100	67.8
H Sep 2007	555	9.3	447.77	576	-10	0.00	95.0	37.8	79	68.3
WY 2007	6804							455.2		
I Oct 2007	455	7.4	447.28	566	-9	0.00	90.0	31.5	75	69.3
S Nov 2007	336	5.6	447.65	573	7	0.00	79.0	23.0	66	68.7
T Dec 2007	270	4.4	446.77	557	-16	0.00	79.0	17.9	66	66.5
O Jan 2008	306	5.0	446.67	555	-2	0.00	85.2	20.3	71	66.5
R Feb 2008	486	8.4	446.44	551	-4	0.00	90.0	32.6	75	67.2
I Mar 2008	744	12.1	446.47	551	1	0.00	90.0	49.8	75	67.0
C Apr 2008	838	14.1	447.25	566	14	0.00	90.0	55.0	75	65.6
A May 2008	684	11.1	448.84	596	30	0.00	90.0	46.4	75	67.9
L Jun 2008	691	11.6	448.62	592	-4	0.00	90.0	47.3	75	68.4
* Jul 2008	728	11.8	447.86	577	-14	0.00	90.0	48.9	75	67.3
Aug 2008	630	10.2	448.00	580	3	75.61	112.8	41.6	94	66.0
Sep 2008	563	9.5	446.80	557	-23	76.20	90.0	37.5	75	66.5
WY 2008	6730							451.9		
Oct 2008	469	7.6	446.31	548	-9	75.97	79.2	30.9	66	65.9
Nov 2008	380	6.4	446.50	552	3	75.83	79.2	24.8	66	65.2
Dec 2008	306	5.0	446.50	552	0	75.32	90.0	19.5	75	63.7
Jan 2009	348	5.7	446.50	552	0	75.32	90.0	22.3	75	64.2
Feb 2009	444	8.0	446.50	552	0	75.32	90.0	29.1	75	65.4
Mar 2009	694	11.3	446.70	555	4	74.01	120.0	45.0	100	64.9
Apr 2009	761	12.8	448.71	594	38	75.09	120.0	50.2	100	65.9
May 2009	723	11.8	448.71	594	0	76.06	120.0	48.1	100	66.5
Jun 2009	676	11.4	448.71	594	0	76.06	120.0	44.9	100	66.5
Jul 2009	729	11.9	448.00	580	-14	75.72	120.0	48.3	100	66.3
Aug 2009	630	10.2	447.50	571	-10	75.13	120.0	41.3	100	65.6
Sep 2009	461	7.8	446.81	557	-13	75.95	90.0	30.3	75	65.8
WY 2009	6621							434.8		
Oct 2009	373	6.1	446.31	548	-9	75.98	79.2	24.3	66	65.1
Nov 2009	308	5.2	446.50	552	3	75.83	79.2	19.8	66	64.3
Dec 2009	337	5.5	446.50	552	0	75.92	79.2	21.8	66	64.6
Jan 2010	433	7.0	446.50	552	0	75.32	90.0	28.1	75	65.0
Feb 2010	680	12.2	446.50	552	0	75.32	90.0	45.2	75	66.4
Mar 2010	746	12.1	446.70	555	4	74.01	120.0	48.5	100	65.0
Apr 2010	707	11.9	448.71	594	38	75.09	120.0	46.5	100	65.8
May 2010	662	10.8	448.71	594	0	76.06	120.0	44.0	100	66.4
Jun 2010	714	12.0	448.71	594	0	76.06	120.0	47.5	100	66.6
Jul 2010	615	10.0	448.00	580	-14	75.72	120.0	40.5	100	65.9

OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS

Bureau of Reclamation - CRFS 8/2008 Most Prob Water Supply  
Upper Basin Power

08-aug-2008 10:50:09

	Glen Canyon 1000 MWHR	Flam Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Res 1000 MWHR	Font Res 1000 MWHR
* Aug 2007	340	20	32	36	20	3
H Sep 2007	253	19	34	39	20	2
Summer 2007	593	39	65	75	41	5
I Oct 2007	251	19	24	30	17	2
S Nov 2007	252	19	18	22	12	2
T Dec 2007	334	15	19	22	13	3
O Jan 2008	330	19	25	31	15	2
R Feb 2008	247	18	26	35	14	2
I Mar 2008	299	19	14	16	9	2
Winter 2008	1714	110	126	156	80	14
C Apr 2008	280	20	38	55	23	2
A May 2008	333	39	52	92	23	4
L Jun 2008	348	68	40	63	22	7
* Jul 2008	390	36	31	39	23	9
Aug 2008	375	33	36	43	22	9
Sep 2008	302	32	33	39	20	6
Summer 2008	2027	229	230	330	133	37
Oct 2008	300	29	22	28	15	6
Nov 2008	251	28	15	18	10	6
Dec 2008	334	29	26	32	16	6
Jan 2009	332	29	25	32	16	5
Feb 2009	289	26	21	28	14	4
Mar 2009	272	18	21	28	15	4
Winter 2009	1778	159	130	167	87	31
Apr 2009	271	17	21	32	18	5
May 2009	332	62	20	35	23	7
Jun 2009	338	46	17	31	22	9
Jul 2009	410	35	35	42	23	10
Aug 2009	409	35	37	44	22	9
Sep 2009	256	34	32	39	20	6
Summer 2009	2017	228	162	222	128	45
Oct 2009	256	35	24	30	15	7
Nov 2009	255	34	15	19	10	6
Dec 2009	340	35	24	30	15	6
Jan 2010	380	35	21	27	14	6
Feb 2010	336	31	18	23	12	5
Mar 2010	335	35	18	24	13	5
Winter 2010	1902	204	121	153	79	34
Apr 2010	417	34	18	27	15	5
May 2010	461	69	19	32	22	7
Jun 2010	495	53	21	32	22	9
Jul 2010	555	43	35	42	23	10

model\_run\_id = 2007

FLOOD CONTROL CRITERIA  
 BEGINNING OF MONTH CONDITIONS

MON	YEAR	FLAMING GORGE KAF	BLUE MESA KAF	NAVAJO KAF	LAKE POWELL KAF	UPPER BASIN TOTAL KAF	LAKE MEAD KAF	TOTAL KAF	FLAMING GORGE KAF	BLUE MESA KAF	NAVAJO KAF	TOT OR MAX ALLOW KAF	LAKE POWELL KAF	LAKE MEAD KAF	TOTAL KAF	BOM SPACE REQD KAF	MEAD SCHD REL KAF	MEAD FC REL KAF	SYS CONT MAF
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* * * * P R E D I C T E D S P A C E * * * *								* * * * C R E D I T A B L E S P A C E * * * *											
* * * * P R E D I C T E D S P A C E * * * *								* * * * C R E D I T A B L E S P A C E * * * *											
AUG	2008	698	67	327	9128	10221	15490	25711	698	67	327	1092	9128	15490	25711	1500	823	0	34.9
SEP	2008	729	95	345	9277	10446	15425	25871	729	95	345	1169	9277	15425	25871	2270	716	0	34.5
OCT	2008	779	149	339	9421	10690	15437	26127	779	149	339	1268	9421	15437	26127	3040	516	0	34.4
NOV	2008	817	176	334	9564	10891	15257	26147	817	176	334	1327	9564	15257	26147	3810	531	0	34.3
DEC	2008	849	191	335	9649	11023	15190	26212	849	191	335	1374	9649	15190	26212	4580	538	0	34.3
JAN	2009	897	248	343	9937	11425	14936	26361	897	248	343	1488	9937	14936	26361	5350	680	0	34.1
												* * * * E F F E C T I V E S P A C E * * * *							
JAN	2009	897	248	343	9937	11425	14936	26361	490	248	298	1036	9937	14936	25909	5350	680	0	34.1
FEB	2009	940	305	351	10244	11841	14748	26589	531	305	306	1142	10244	14748	26135	1500	641	0	34.0
MAR	2009	971	353	348	10475	12147	14625	26772	559	353	302	1214	10475	14625	26314	1500	913	0	33.7
APR	2009	931	387	290	10594	12202	14830	27031	513	387	238	1139	10594	14830	26562	1500	1070	0	33.6
MAY	2009	853	382	193	10613	12040	15207	27247	427	382	123	931	10613	15207	26751	1500	1030	0	34.5
JUN	2009	771	253	148	9691	10863	15441	26304	336	246	44	626	9691	15441	25758	1500	848	0	36.2
JUL	2009	555	29	186	8243	9013	15557	24570	103	3	33	138	8243	15557	23938	1500	912	0	36.5
												* * * * C R E D I T A B L E S P A C E * * * *							
AUG	2009	470	27	208	8038	8743	15561	24304	470	27	208	704	8038	15561	24304	1500	820	0	36.1
SEP	2009	490	72	243	8386	9191	15427	24618	490	72	243	805	8386	15427	24618	2270	593	0	35.8
OCT	2009	541	133	249	8485	9409	15437	24846	541	133	249	924	8485	15437	24846	3040	408	0	35.7
NOV	2009	585	175	244	8493	9497	15265	24762	585	175	244	1004	8493	15265	24762	3810	490	0	35.8
DEC	2009	630	193	243	8519	9586	15164	24750	630	193	243	1067	8519	15164	24750	4580	616	0	35.7
JAN	2010	690	248	252	8767	9958	14983	24941	690	248	252	1190	8767	14983	24941	5350	754	0	35.5
												* * * * E F F E C T I V E S P A C E * * * *							
JAN	2010	690	248	252	8767	9958	14983	24941	395	248	203	846	8767	14983	24596	5350	754	0	35.5
FEB	2010	746	295	262	9142	10446	14769	25214	449	295	212	956	9142	14769	24867	1500	894	0	35.1
MAR	2010	789	334	262	9440	10825	14825	25650	489	334	211	1034	9440	14825	25299	1500	1011	0	34.8
APR	2010	785	360	218	9618	10981	14999	25981	482	360	161	1003	9618	14999	25620	1500	1034	0	34.7
MAY	2010	743	349	119	9818	11028	15033	26061	432	349	43	824	9818	15033	25674	1500	981	0	35.9
JUN	2010	676	218	133	8956	9983	14985	24968	357	213	23	593	8956	14985	24534	1500	877	0	37.8
JUL	2010	440	36	202	7594	8272	14755	23027	102	11	43	155	7594	14755	22505	1500	795	0	38.4