To: All Annual Operating Plan Recipients

From: Lower Colorado Region
Boulder Canyon Operations Office
River Operations Group
Bruce Williams
P.O. Box 61470
Boulder City, NV 89006-1470
Phone: 702-293-8571

The operation of Lake Powell and Lake Mead in this November 2009 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2009 Annual Operating Plan (AOP) and draft 2010 AOP. Pursuant to the Interim Guidelines, the August 24-Month Study projections of the January 1 system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead. If the operating tier for the year is the Upper Elevation Balancing Tier, an adjustment may be made in April based on the April 24-Month Study projection of the September 30 system storage and reservoir water surface elevations.

The Upper Elevation Balancing Tier is the operational tier for water year 2010 for Glen Canyon Dam. The Intentionally Created Surplus (ICS) Surplus condition is the criterion governing the operation of Lake Mead for calendar years 2009 and 2010.

With a Lake Powell water year release volume of 8.23 million acre-feet (maf), the November 24-Month Study projects Lake Powell's 2010 end of water year elevation to be above the 2010 Equalization Elevation of 3,642 feet. Pursuant to the Interim Guidelines, the November 24-Month Study projects an April adjustment to the Equalization Tier in 2010. The annual release from Glen Canyon Dam under the Equalization Tier is projected to be 10.667 maf. Based on analysis of possible inflow scenarios, the probability of an April adjustment to the Equalization Tier in 2010 is approximately 50 percent.

The Interim Guidelines are available for download at http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf.
The 2009 AOP is available for download at http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP09_final.pdf.
The draft 2010 AOP is available for download at http://www.usbr.gov/lc/region/g4000/AOP2010/AOP10_draft.pdf.

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows: Observed unregulated inflow into Lake Powell for the month of November 2009 was 0.374 maf or 68% of the 30 year average. The forecast for November 2009 unregulated inflow into Lake Powell is 0.430 maf or 79% of the 30 year average.

In this study, the Calendar Year (CY) 2009 diversion for Metropolitan Water District of Southern California (MWD) is forecasted to be 1.117 maf. The CY 2009 diversion for the Central Arizona Project (CAP) is forecasted to be 1.626 maf. Consumptive use for Nevada above Hoover is forecasted to be 0.276 maf for CY 2009.

Due to declining Lake Mead elevations, Hoover's generator capacity is adjusted based on estimated effective capacity and plant availability. The estimated effective capacity is based on projected Lake Mead elevations. Unit capacity tests will be performed as the lake elevation changes in 2-foot increments. This study reflects these changes in the projections.

Hoover, Davis, and Parker historical gross energy figures come from PO&M reports provided by the Lower Colorado Region's Power Management Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Larry Karr at (702) 293-8094.

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Fontenelle Reservoir

		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
*	Nov 2008	41	1	48	13	61	6487.43	211
H	Dec 2008	30	1	26	35	60	6482.26	180
I	Jan 2009	33	1	61	0	61	6476.93	151
S	Feb 2009	27	0	53	0	53	6471.15	124
T	Mar 2009	46	0	59	0	59	6467.98	111
O	Apr 2009	91	1	57	0	57	6475.63	145
R	May 2009	152	1	62	1	64	6490.46	231
I	Jun 2009	477	3	91	285	376	6504.01	330
C	Jul 2009	247	3	88	145	233	6505.36	341
A	Aug 2009	72	2	98	6	104	6500.99	306
L	Sep 2009	37	2	66	0	66	6496.84	276
	WY 2009	1295	15	773	485	1258		
*	Oct 2009	48	1	51	11	62	6494.68	260
	Nov 2009	42	1	0	60	60	6492.07	242
	Dec 2009	33	1	70	0	70	6486.36	204
	Jan 2010	31	1	70	0	70	6479.70	165
	Feb 2010	32	0	63	0	63	6473.28	134
	Mar 2010	48	0	70	0	70	6468.13	111
	Apr 2010	90	1	89	0	89	6468.17	112
	May 2010	180	1	99	6	105	6483.32	186
	Jun 2010	315	2	103	96	199	6500.03	299
	Jul 2010	185	3	101	38	138	6505.68	343
	Aug 2010	80	2	100	5	105	6502.27	316
	Sep 2010	53	2	39	29	68	6500.02	299
	WY 2010	1137	15	854	245	1098		
	Oct 2010	49	1	54	16	71	6496.85	276
	Nov 2010	41	1	68	0	68	6492.94	248
	Dec 2010	32	1	71	0	71	6487.02	209
	Jan 2011	30	1	71	0	71	6480.17	168
	Feb 2011	28	0	64	0	64	6472.72	131
	Mar 2011	52	0	71	0	71	6468.16	111
	Apr 2011	89	1	83	0	83	6469.48	117
	May 2011	176	1	99	6	105	6483.57	187
	Jun 2011	307	2	103	90	193	6499.98	299
	Jul 2011	185	3	101	38	138	6505.66	343
	Aug 2011	82	2	100	5	105	6502.55	318
	Sep 2011	48	2	37	35	71	6499.31	294
	WY 2011	1120	15	921	190	1111		
	Oct 2011	49	1	74	0	74	6495.69	267

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
*	Nov 2008	47	66	3	65	0	65	83	6020.91	3011	0	107
H	Dec 2008	17	48	2	79	0	79	82	6020.01	2980	0	116
I	Jan 2009	39	67	2	80	0	80	82	6019.63	2965	0	752
S	Feb 2009	37	64	2	62	0	62	82	6019.63	2967	0	104
T	Mar 2009	62	75	3	52	0	52	82	6020.18	2987	0	140
O	Apr 2009	127	93	5	50	0	50	84	6021.21	3024	0	312
R	May 2009	212	125	7	150	0	150	83	6020.33	2993	758	883
I	Jun 2009	573	472	10	96	0	96	97	6029.83	3357	517	624
C	Jul 2009	284	271	14	117	0	117	102	6033.29	3478	109	247
A	Aug 2009	74	106	13	124	0	124	101	6032.53	3448	21	161
L	Sep 2009	45	74	11	120	0	120	99	6031.12	3392	14	144
	WY 2009	1564	1527	79	1065	0	1065					3709
*	Oct 2009	45	59	7	109	0	109	96	6029.69	3337	0	152
	Nov 2009	51	69	3	104	0	104	95	6028.71	3299	0	104
	Dec 2009	40	77	2	108	0	108	94	6027.88	3268	0	108
	Jan 2010	38	77	2	108	0	108	92	6027.06	3237	0	108
	Feb 2010	40	71	2	97	0	97	91	6026.33	3210	0	97
	Mar 2010	70	92	3	109	0	109	90	6025.81	3190	0	109
	Apr 2010	115	114	5	106	0	106	91	6025.90	3194	0	106
	May 2010	220	145	8	154	0	154	90	6025.47	3177	0	154
	Jun 2010	370	254	10	181	0	181	92	6027.08	3238	0	181
	Jul 2010	200	153	13	100	0	100	94	6028.10	3276	0	100
	Aug 2010	88	113	13	100	0	100	94	6028.10	3276	0	100
	Sep 2010	60	75	11	97	0	97	93	6027.27	3245	0	97
	WY 2010	1337	1299	79	1373	0	1373					1415
	Oct 2010	59	81	7	100	0	100	92	6026.60	3220	0	100
	Nov 2010	51	78	3	97	0	97	91	6026.03	3198	0	97
	Dec 2010	36	75	2	100	0	100	90	6025.33	3172	0	100
	Jan 2011	41	81	2	100	0	100	89	6024.80	3153	0	100
	Feb 2011	45	82	2	90	0	90	89	6024.52	3142	0	90
	Mar 2011	103	123	3	100	0	100	89	6025.03	3161	0	100
	Apr 2011	142	136	5	97	0	97	91	6025.93	3195	0	97
	May 2011	263	192	8	142	0	142	92	6027.00	3235	0	142
	Jun 2011	400	286	10	186	0	186	96	6029.26	3321	0	186
	Jul 2011	219	172	14	112	0	112	98	6030.42	3365	0	112
	Aug 2011	96	119	13	112	0	112	97	6030.27	3359	0	112
	Sep 2011	58	81	11	109	0	109	96	6029.31	3322	0	109
	WY 2011	1515	1505	80	1345	0	1345					1345
	Oct 2011	59	84	7	101	0	101	95	6028.68	3299	0	101

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Taylor Park Reservoir

		Regulated Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft
*	Nov 2008	5	5	9311.19	72
H	Dec 2008	5	5	9311.34	72
I	Jan 2009	5	5	9311.21	72
S	Feb 2009	4	5	9310.95	71
T	Mar 2009	4	5	9310.68	71
O	Apr 2009	11	5	9314.31	77
R	May 2009	46	20	9328.38	103
I	Jun 2009	37	35	9329.45	105
C	Jul 2009	14	0	9324.35	95
A	Aug 2009	7	19	9317.78	83
L	Sep 2009	6	15	9312.44	74
	WY 2009	152	126		
*	Oct 2009	7	8	9311.60	72
	Nov 2009	6	4	9312.52	74
	Dec 2009	5	4	9313.12	75
	Jan 2010	5	4	9313.42	75
	Feb 2010	4	4	9313.42	75
	Mar 2010	4	4	9313.42	75
	Apr 2010	8	8	9313.42	75
	May 2010	25	18	9317.50	82
	Jun 2010	38	20	9327.13	100
	Jul 2010	16	22	9324.04	94
	Aug 2010	8	22	9316.36	80
	Sep 2010	7	15	9311.60	72
	WY 2010	132	133		
	Oct 2010	6	10	9309.19	69
	Nov 2010	5	6	9308.51	68
	Dec 2010	4	5	9308.18	67
	Jan 2011	4	5	9307.65	66
	Feb 2011	4	5	9306.81	65
	Mar 2011	4	5	9306.31	64
	Apr 2011	8	8	9306.53	65
	May 2011	27	16	9313.56	76
	Jun 2011	43	20	9326.18	99
	Jul 2011	20	22	9325.36	97
	Aug 2011	10	22	9318.95	85
	Sep 2011	7	15	9314.33	77
	WY 2011	144	139		
	Oct 2011	6	6	9314.42	77

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
*	Nov 2008	27	28	0	33	0	33	7491.42	592
H	Dec 2008	28	27	0	36	0	36	7490.25	583
I	Jan 2009	26	27	0	39	0	39	7488.62	571
S	Feb 2009	24	24	0	42	0	42	7486.19	552
T	Mar 2009	40	40	0	49	0	49	7484.97	543
O	Apr 2009	104	99	1	61	0	61	7489.84	580
R	May 2009	344	317	1	110	10	120	7513.48	776
I	Jun 2009	229	227	1	172	3	175	7519.02	826
C	Jul 2009	95	105	2	144	0	144	7514.49	785
A	Aug 2009	42	54	1	128	0	128	7505.79	710
L	Sep 2009	26	35	1	93	0	93	7498.71	651
	WY 2009	1018	1016	9	993	13	1006		
*	Oct 2009	33	34	1	81	0	81	7492.82	603
	Nov 2009	30	29	0	28	0	28	7492.85	604
	Dec 2009	28	27	0	49	0	49	7490.00	581
	Jan 2010	24	23	0	83	0	83	7482.13	522
	Feb 2010	22	22	0	60	0	60	7476.87	483
	Mar 2010	31	31	0	34	0	34	7476.40	480
	Apr 2010	75	75	1	42	0	42	7480.87	512
	May 2010	190	183	1	58	0	58	7496.94	636
	Jun 2010	225	207	1	46	0	46	7515.67	796
	Jul 2010	89	95	2	87	0	87	7516.40	803
	Aug 2010	49	63	1	121	0	121	7509.71	743
	Sep 2010	38	46	1	105	0	105	7502.65	683
	WY 2010	834	835	9	794	0	794		
	Oct 2010	36	39	1	69	0	69	7499.01	653
	Nov 2010	31	32	0	29	0	29	7499.36	656
	Dec 2010	25	26	0	100	0	100	7490.00	581
	Jan 2011	24	25	0	92	0	92	7481.17	515
	Feb 2011	22	23	0	60	0	60	7476.03	477
	Mar 2011	34	35	0	43	0	43	7474.83	469
	Apr 2011	73	73	1	50	0	50	7477.97	491
	May 2011	212	201	1	74	0	74	7494.55	617
	Jun 2011	271	248	1	71	0	71	7515.39	793
	Jul 2011	121	122	2	112	0	112	7516.40	803
	Aug 2011	62	74	1	122	0	122	7510.78	753
	Sep 2011	36	44	1	113	0	113	7502.61	683
	WY 2011	946	942	9	934	0	934		
	Oct 2011	36	35	1	69	0	69	7498.47	649

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
* Nov 2008	29	33	2	35	0	35	0	35	7153.60	112
H Dec 2008	29	36	2	38	0	39	0	39	7152.11	111
I Jan 2009	28	39	1	40	0	43	0	43	7148.12	108
S Feb 2009	24	42	1	43	0	45	0	45	7145.98	106
T Mar 2009	42	49	2	51	0	43	6	49	7147.72	107
O Apr 2009	119	61	14	75	0	69	0	69	7155.78	114
R May 2009	377	120	34	154	0	153	2	155	7154.23	112
I Jun 2009	241	175	12	188	0	184	0	184	7158.19	116
C Jul 2009	97	144	2	146	0	148	0	148	7155.33	113
A Aug 2009	42	128	0	128	0	129	0	129	7154.90	113
L Sep 2009	27	93	1	94	0	100	0	100	7146.95	107
WY 2009	1088	1006	71	1077	1	1074	8	1083		
* Oct 2009	34	81	1	82	0	81	0	81	7148.23	108
Nov 2009	32	28	2	30	0	26	0	26	7153.73	112
Dec 2009	30	49	2	51	0	51	0	51	7153.73	112
Jan 2010	26	83	2	85	0	85	0	85	7153.73	112
Feb 2010	23	60	1	61	0	61	0	61	7153.73	112
Mar 2010	34	34	3	37	0	37	0	37	7153.73	112
Apr 2010	86	42	11	53	0	53	0	53	7153.73	112
May 2010	215	58	25	83	0	83	0	83	7153.73	112
Jun 2010	245	46	20	66	0	66	0	66	7153.73	112
Jul 2010	95	87	6	93	0	93	0	93	7153.73	112
Aug 2010	53	121	4	125	0	125	0	125	7153.73	112
Sep 2010	44	105	6	111	0	111	0	111	7153.73	112
WY 2010	917	794	83	877	0	872	0	872		
Oct 2010	38	69	3	72	0	72	0	72	7153.73	112
Nov 2010	33	29	2	31	0	31	0	31	7153.73	112
Dec 2010	27	100	2	102	0	102	0	102	7153.73	112
Jan 2011	26	92	2	94	0	94	0	94	7153.73	112
Feb 2011	25	60	3	63	0	63	0	63	7153.73	112
Mar 2011	38	43	4	47	0	47	0	47	7153.73	112
Apr 2011	84	50	11	61	0	61	0	61	7153.73	112
May 2011	237	74	25	99	0	99	0	99	7153.73	112
Jun 2011	292	71	21	92	0	92	0	92	7153.73	112
Jul 2011	127	112	7	118	0	118	0	118	7153.73	112
Aug 2011	65	122	4	126	0	126	0	126	7153.73	112
Sep 2011	39	113	3	116	0	116	0	116	7153.73	112
WY 2011	1032	934	86	1020	0	1020	0	1020		
Oct 2011	38	69	3	72	0	72	0	72	7153.73	112

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
* Nov 2008	33	35	4	38	39	0	39	6742.20	14	1	40
H Dec 2008	32	39	3	42	42	0	42	6742.53	14	1	43
I Jan 2009	31	43	4	47	38	9	47	6741.02	14	1	49
S Feb 2009	28	45	3	48	24	20	45	6752.05	17	1	46
T Mar 2009	47	49	5	55	55	0	55	6751.30	16	10	47
O Apr 2009	130	69	12	81	80	0	80	6752.70	17	36	48
R May 2009	431	155	53	208	120	88	208	6752.57	17	55	160
I Jun 2009	264	184	23	207	116	91	207	6753.30	17	59	160
C Jul 2009	104	148	7	156	128	30	158	6743.22	14	68	101
A Aug 2009	44	129	2	131	130	0	130	6746.30	15	67	72
L Sep 2009	29	100	2	102	102	0	102	6746.55	15	63	46
WY 2009	1209	1083	121	1204	964	238	1202			416	857
* Oct 2009	36	81	3	84	72	10	82	6751.89	17	49	36
Nov 2009	37	26	5	31	30	0	30	6753.04	17	0	30
Dec 2009	35	51	5	56	56	0	56	6753.04	17	0	56
Jan 2010	30	85	4	89	89	0	89	6753.04	17	0	89
Feb 2010	26	61	3	64	64	0	64	6753.04	17	0	64
Mar 2010	40	37	6	43	43	0	43	6753.04	17	5	38
Apr 2010	100	53	14	67	67	0	67	6753.04	17	30	37
May 2010	245	83	30	113	113	0	113	6753.04	17	55	58
Jun 2010	275	66	30	96	96	0	96	6753.04	17	60	36
Jul 2010	105	93	10	103	103	0	103	6753.04	17	65	38
Aug 2010	56	125	3	128	128	0	128	6753.04	17	65	63
Sep 2010	49	111	5	116	116	0	116	6753.04	17	55	61
WY 2010	1034	872	118	990	977	10	988			384	606
Oct 2010	44	72	6	78	78	0	78	6753.04	17	30	48
Nov 2010	38	31	5	36	36	0	36	6753.04	17	0	36
Dec 2010	32	102	5	107	107	0	107	6753.04	17	0	107
Jan 2011	31	94	5	99	99	0	99	6753.04	17	0	99
Feb 2011	29	63	4	67	67	0	67	6753.04	17	0	67
Mar 2011	46	47	7	54	54	0	54	6753.04	17	5	49
Apr 2011	96	61	12	73	73	0	73	6753.04	17	30	43
May 2011	272	99	35	134	134	0	134	6753.04	17	55	79
Jun 2011	330	92	38	130	130	0	130	6753.04	17	60	70
Jul 2011	144	118	17	135	134	1	135	6753.04	17	65	70
Aug 2011	74	126	8	134	134	0	134	6753.04	17	65	69
Sep 2011	45	116	6	122	122	0	122	6753.04	17	55	67
WY 2011	1183	1020	150	1170	1169	1	1170			365	805
Oct 2011	44	72	6	78	78	0	78	6753.04	17	30	48

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Vallecito Reservoir

		Regulated Inflow 1000 Ac-Ft	Total Release 1000 Ac-Ft	Reservoir Elevation EOM Feet	Live Storage 1000 Ac-Ft
*	Nov 2008	5	2	7641.75	68
H	Dec 2008	5	2	7643.06	71
I	Jan 2009	5	2	7644.39	74
S	Feb 2009	5	2	7645.61	77
T	Mar 2009	8	4	7647.33	81
O	Apr 2009	22	10	7652.11	92
R	May 2009	98	66	7664.50	124
I	Jun 2009	44	43	7664.64	124
C	Jul 2009	19	39	7656.79	104
A	Aug 2009	8	39	7643.59	72
L	Sep 2009	8	30	7632.32	49
	WY 2009	237	254		
*	Oct 2009	8	13	7629.82	44
	Nov 2009	6	3	7631.17	47
	Dec 2009	5	3	7631.91	48
	Jan 2010	4	3	7632.36	49
	Feb 2010	3	3	7632.70	50
	Mar 2010	5	3	7633.88	52
	Apr 2010	17	12	7636.31	57
	May 2010	62	35	7648.44	83
	Jun 2010	72	52	7656.29	103
	Jul 2010	26	43	7649.16	85
	Aug 2010	16	42	7637.24	59
	Sep 2010	14	32	7627.39	40
	WY 2010	238	244		
	Oct 2010	14	19	7623.99	35
	Nov 2010	8	6	7625.48	37
	Dec 2010	6	5	7626.34	39
	Jan 2011	5	5	7626.65	39
	Feb 2011	5	4	7626.89	39
	Mar 2011	8	5	7628.85	43
	Apr 2011	22	12	7634.20	53
	May 2011	69	43	7646.43	79
	Jun 2011	78	59	7654.11	97
	Jul 2011	31	43	7648.90	84
	Aug 2011	19	42	7638.49	61
	Sep 2011	17	32	7630.70	46
	WY 2011	282	274		
	Oct 2011	14	19	7627.57	41

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Navajo Reservoir

		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
*	Nov 2008	21	0	17	1	0	30	6055.68	1294	47
H	Dec 2008	19	0	16	1	0	31	6054.38	1277	48
I	Jan 2009	23	0	20	1	1	32	6053.29	1264	54
S	Feb 2009	28	1	24	1	0	28	6052.85	1260	50
T	Mar 2009	76	6	65	2	5	31	6055.13	1288	61
O	Apr 2009	125	19	97	2	19	30	6058.76	1337	69
R	May 2009	361	52	275	4	29	59	6072.47	1515	251
I	Jun 2009	146	24	120	5	36	115	6069.92	1479	184
C	Jul 2009	29	4	43	5	43	53	6065.70	1422	77
A	Aug 2009	-11	0	20	4	42	49	6059.96	1347	64
L	Sep 2009	5	0	28	3	22	37	6057.32	1314	52
	WY 2009	850	106	761	28	210	529			1002
*	Oct 2009	15	0	20	2	13	37	6054.76	1283	61
	Nov 2009	21	0	18	1	0	30	6053.75	1270	30
	Dec 2009	19	0	18	1	0	31	6052.61	1256	31
	Jan 2010	18	0	17	1	0	31	6051.40	1242	31
	Feb 2010	25	0	24	1	0	28	6051.03	1238	28
	Mar 2010	74	1	71	2	4	31	6053.92	1272	31
	Apr 2010	125	15	105	2	17	30	6058.47	1328	30
	May 2010	245	34	184	4	29	85	6063.63	1395	85
	Jun 2010	220	28	172	4	44	147	6061.85	1371	147
	Jul 2010	48	4	61	4	47	31	6060.23	1351	31
	Aug 2010	26	2	50	4	40	31	6058.32	1327	31
	Sep 2010	35	1	52	3	22	30	6058.11	1324	30
	WY 2010	871	85	792	27	216	540			564
	Oct 2010	40	2	44	2	8	31	6058.44	1328	31
	Nov 2010	33	0	30	1	0	30	6058.41	1328	30
	Dec 2010	24	0	22	1	0	31	6057.68	1319	31
	Jan 2011	22	0	21	1	0	31	6056.86	1308	31
	Feb 2011	30	0	30	1	0	28	6056.94	1309	28
	Mar 2011	88	2	83	2	4	61	6058.21	1325	61
	Apr 2011	174	16	148	3	17	60	6063.60	1394	60
	May 2011	279	33	219	4	29	200	6062.56	1381	200
	Jun 2011	246	29	198	4	44	212	6057.68	1319	212
	Jul 2011	74	7	79	4	47	31	6057.45	1316	31
	Aug 2011	43	3	63	4	40	31	6056.61	1305	31
	Sep 2011	42	1	56	3	22	30	6056.71	1307	30
	WY 2011	1096	93	994	27	210	775			775
	Oct 2011	40	1	44	2	8	31	6057.06	1311	31

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
*	Nov 2008	419	455	36	603	0	603	3621.90	17367	13966	612
H	Dec 2008	312	386	28	801	0	801	3617.89	17349	13541	818
I	Jan 2009	329	394	9	802	0	802	3614.17	17318	13155	822
S	Feb 2009	323	377	9	602	0	602	3612.05	17300	12938	612
T	Mar 2009	470	445	16	626	0	626	3610.43	17268	12774	632
O	Apr 2009	788	669	25	604	0	604	3611.26	17224	12858	611
R	May 2009	2921	2446	31	582	0	582	3629.09	17163	14751	586
I	Jun 2009	2701	2217	54	664	0	664	3640.49	17353	16061	670
C	Jul 2009	1394	1219	67	803	0	803	3641.14	17625	16138	828
A	Aug 2009	323	536	66	802	0	802	3637.50	17721	15710	829
L	Sep 2009	261	466	59	598	0	598	3635.37	17777	15463	613
	WY 2009	10623	10107	437	8236	0	8236				8396
*	Oct 2009	342	508	41	620	0	620	3633.52	17837	15251	634
	Nov 2009	430	485	35	690	0	690	3631.56	17819	15028	690
	Dec 2009	400	501	29	855	0	855	3628.39	17790	14673	855
	Jan 2010	350	491	22	955	0	955	3624.30	17754	14224	955
	Feb 2010	350	448	20	800	0	800	3621.10	17727	13880	800
	Mar 2010	600	604	25	900	0	900	3618.29	17703	13582	900
	Apr 2010	900	794	28	1010	0	1010	3616.13	17685	13357	1010
	May 2010	1950	1655	38	1030	0	1030	3621.29	17729	13901	1030
	Jun 2010	2600	2232	45	1046	0	1046	3630.93	17813	14957	1046
	Jul 2010	1100	1031	52	1100	0	1100	3629.92	17804	14844	1100
	Aug 2010	475	605	53	1066	0	1066	3625.63	17766	14369	1066
	Sep 2010	425	547	45	595	0	595	3624.83	17759	14282	595
	WY 2010	9922	9901	433	10667	0	10667				10681
	Oct 2010	514	588	41	615	0	615	3624.25	17754	14219	615
	Nov 2010	523	564	34	600	0	600	3623.66	17749	14155	600
	Dec 2010	414	560	28	800	0	800	3621.35	17729	13907	800
	Jan 2011	384	520	21	800	0	800	3618.72	17707	13628	800
	Feb 2011	394	475	20	600	0	600	3617.44	17696	13494	600
	Mar 2011	628	612	24	600	0	600	3617.33	17695	13483	600
	Apr 2011	950	800	28	700	0	700	3617.97	17700	13550	700
	May 2011	2161	1886	39	838	0	838	3626.68	17775	14484	838
	Jun 2011	2811	2436	47	1000	0	1000	3638.02	17878	15770	1000
	Jul 2011	1346	1240	55	1050	0	1050	3639.09	17888	15896	1050
	Aug 2011	566	672	56	1000	0	1000	3636.04	17860	15541	1000
	Sep 2011	460	597	48	595	0	595	3635.68	17856	15498	595
	WY 2011	11151	10950	439	9198	0	9198				9198
	Oct 2011	514	589	43	615	0	615	3635.12	17851	15434	615

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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 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
* Nov 2008	603	74	47	675	11.3	15	659	790	1107.33	12157
H Dec 2008	801	62	41	453	7.4	8	432	812	1110.97	12496
I Jan 2009	802	63	34	741	12.1	9	739	817	1111.78	12572
S Feb 2009	602	82	31	679	12.2	9	669	815	1111.43	12539
T Mar 2009	626	62	34	1037	16.9	17	1036	791	1107.40	12164
O Apr 2009	604	36	42	1174	19.7	20	1169	754	1101.26	11604
R May 2009	582	63	47	977	15.9	33	968	729	1096.92	11217
I Jun 2009	664	11	56	750	12.6	25	748	720	1095.26	11071
C Jul 2009	803	38	70	840	13.7	30	838	714	1094.20	10978
A Aug 2009	802	59	74	801	13.0	30	792	711	1093.73	10938
L Sep 2009	598	55	61	575	9.7	22	570	711	1093.68	10933
WY 2009	8236	651	585	9210		242	9119			
* Oct 2009	620	22	44	613	10.0	23	609	708	1093.26	10897
Nov 2009	690	73	44	653	11.0	32	653	710	1093.62	10928
Dec 2009	855	65	39	598	9.7	26	598	726	1096.37	11169
Jan 2010	955	131	32	688	11.2	20	688	747	1100.03	11494
Feb 2010	800	134	30	676	12.2	21	676	760	1102.20	11689
Mar 2010	900	96	33	1014	16.5	28	1014	755	1101.37	11614
Apr 2010	1010	75	41	1108	18.6	22	1108	750	1100.46	11532
May 2010	1030	70	48	1005	16.3	32	1005	751	1100.62	11547
Jun 2010	1046	24	58	887	14.9	29	887	756	1101.63	11637
Jul 2010	1100	61	72	903	14.7	31	903	766	1103.24	11783
Aug 2010	1066	110	78	809	13.1	32	809	782	1105.89	12025
Sep 2010	595	78	64	668	11.2	27	668	776	1105.00	11944
WY 2010	10667	939	583	9621		324	9617			
Oct 2010	615	73	47	438	7.1	39	438	786	1106.67	12097
Nov 2010	600	73	47	566	9.5	28	566	788	1107.00	12127
Dec 2010	800	65	41	537	8.7	22	537	804	1109.67	12375
Jan 2011	800	131	34	674	11.0	20	674	817	1111.71	12567
Feb 2011	600	134	31	673	12.1	19	673	817	1111.82	12576
Mar 2011	600	96	35	1005	16.3	27	1005	795	1108.10	12229
Apr 2011	700	75	42	1139	19.1	24	1139	769	1103.70	11825
May 2011	838	70	48	1008	16.4	33	1008	758	1101.82	11654
Jun 2011	1000	24	58	898	15.1	31	898	760	1102.21	11690
Jul 2011	1050	61	73	897	14.6	33	897	766	1103.33	11791
Aug 2011	1000	110	78	801	13.0	34	801	778	1105.36	11977
Sep 2011	595	78	64	615	10.3	29	615	776	1105.00	11944
WY 2011	9198	990	596	9252		340	9252			
Oct 2011	615	73	47	467	7.6	38	467	785	1106.39	12071

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Davis Dam - Lake Mohave

	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 CFS	Reservoir Elevation EOM Feet	EOM Storage 1000 Ac-Ft
* Nov 2008	675	-23	603	0	603	10.1	635.28	1493
H Dec 2008	453	-23	339	0	339	5.5	638.77	1585
I Jan 2009	741	-25	655	0	655	10.6	641.08	1647
S Feb 2009	679	-18	629	0	629	11.3	642.29	1679
T Mar 2009	1037	-27	1035	0	1035	16.8	641.38	1655
O Apr 2009	1174	-30	1097	0	1097	18.4	643.11	1702
R May 2009	977	-28	916	0	916	14.9	644.36	1736
I Jun 2009	750	-28	788	0	788	13.2	641.92	1669
C Jul 2009	840	-20	835	0	835	13.6	641.37	1654
A Aug 2009	801	-31	756	0	756	12.3	641.90	1669
L Sep 2009	575	-16	726	0	726	12.2	635.60	1501
WY 2009	9210	-286	9008	0	9008			
* Oct 2009	613	-22	623	0	623	10.1	634.34	1469
Nov 2009	653	-18	605	0	605	10.2	635.50	1499
Dec 2009	598	-20	495	0	495	8.0	638.70	1583
Jan 2010	688	-22	582	0	582	9.5	641.80	1666
Feb 2010	676	-15	661	0	661	11.9	641.80	1666
Mar 2010	1014	-26	954	0	954	15.5	643.05	1700
Apr 2010	1108	-28	1081	0	1081	18.2	643.00	1699
May 2010	1005	-35	970	0	970	15.8	643.00	1699
Jun 2010	887	-27	887	0	887	14.9	642.00	1671
Jul 2010	903	-23	893	0	893	14.5	641.50	1658
Aug 2010	809	-25	784	0	784	12.7	641.50	1658
Sep 2010	668	-17	745	0	745	12.5	638.00	1564
WY 2010	9621	-278	9280	0	9280			
Oct 2010	438	-4	564	0	564	9.2	633.00	1434
Nov 2010	566	-18	497	0	497	8.4	635.00	1486
Dec 2010	537	-20	420	0	420	6.8	638.71	1583
Jan 2011	674	-22	568	0	568	9.2	641.80	1666
Feb 2011	673	-15	659	0	659	11.9	641.80	1666
Mar 2011	1005	-26	944	0	944	15.4	643.05	1700
Apr 2011	1139	-28	1112	0	1112	18.7	643.00	1699
May 2011	1008	-35	973	0	973	15.8	643.00	1699
Jun 2011	898	-27	898	0	898	15.1	642.00	1671
Jul 2011	897	-23	888	0	888	14.4	641.50	1658
Aug 2011	801	-25	776	0	776	12.6	641.50	1658
Sep 2011	615	-17	692	0	692	11.6	638.00	1564
WY 2011	9252	-260	8991	0	8991			
Oct 2011	467	-4	593	0	593	9.6	633.00	1434

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
*	Nov 2008	603	16	379	6.4	53	168	447.54	571	118	2.0
H	Dec 2008	339	15	236	3.8	67	65	446.81	558	139	2.3
I	Jan 2009	655	-6	379	6.2	100	171	446.67	555	121	2.0
S	Feb 2009	629	3	397	7.2	82	162	446.08	544	162	2.9
T	Mar 2009	1035	-7	736	12.0	99	180	446.75	557	208	3.4
O	Apr 2009	1097	-5	784	13.2	98	172	448.75	595	205	3.4
R	May 2009	916	-3	647	10.5	101	165	448.71	594	122	2.0
I	Jun 2009	788	-6	595	10.0	98	94	448.49	590	113	1.9
C	Jul 2009	835	-13	655	10.6	100	75	448.11	582	120	2.0
A	Aug 2009	756	-3	582	9.5	100	70	448.19	584	101	1.6
L	Sep 2009	726	-2	505	8.5	96	143	447.16	564	93	1.6
	WY 2009	9008	-7	6347		1072	1602			1585	
*	Oct 2009	623	-1	446	7.2	27	133	448.03	581	76	1.2
	Nov 2009	605	13	375	6.3	106	147	447.50	571	103	1.7
	Dec 2009	495	11	291	4.7	110	114	447.00	561	118	1.9
	Jan 2010	582	25	352	5.7	100	164	446.50	552	119	1.9
	Feb 2010	661	28	444	8.0	90	155	446.50	552	154	2.8
	Mar 2010	954	30	708	11.5	100	172	446.70	555	204	3.3
	Apr 2010	1081	-6	775	13.0	97	165	448.71	594	199	3.3
	May 2010	970	-16	696	11.3	100	157	448.71	594	111	1.8
	Jun 2010	887	-26	675	11.3	97	89	448.71	594	116	1.9
	Jul 2010	893	-18	717	11.7	100	72	448.00	580	119	1.9
	Aug 2010	784	-11	615	10.0	100	67	447.50	571	93	1.5
	Sep 2010	745	-12	528	8.9	71	147	446.80	557	89	1.5
	WY 2010	9280	17	6622		1099	1582			1502	
	Oct 2010	564	6	442	7.2	24	112	446.31	548	74	1.2
	Nov 2010	497	13	372	6.2	25	110	446.50	552	103	1.7
	Dec 2010	420	11	282	4.6	25	124	446.50	552	118	1.9
	Jan 2011	568	25	341	5.5	83	169	446.50	552	119	1.9
	Feb 2011	659	28	452	8.1	75	160	446.50	552	149	2.7
	Mar 2011	944	30	718	11.7	83	170	446.70	555	206	3.4
	Apr 2011	1112	-6	820	13.8	80	168	448.71	594	200	3.4
	May 2011	973	-16	700	11.4	83	175	448.71	594	113	1.8
	Jun 2011	898	-26	664	11.2	80	128	448.71	594	115	1.9
	Jul 2011	888	-18	722	11.7	83	79	448.00	580	119	1.9
	Aug 2011	776	-11	625	10.2	83	66	447.50	571	93	1.5
	Sep 2011	692	-12	539	9.1	60	95	446.80	557	89	1.5
	WY 2011	8991	24	6675		782	1557			1499	
	Oct 2011	593	6	447	7.3	23	138	446.31	548	74	1.2

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

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
* Nov 2008	675	11.3	1107.33	12157	-56	0.00	926.0	263.1	55	389.9
H Dec 2008	453	7.4	1110.97	12496	339	0.00	1523.0	171.3	88	377.7
I Jan 2009	741	12.1	1111.78	12572	76	0.00	1305.0	299.0	75	403.3
S Feb 2009	679	12.2	1111.43	12539	-33	0.00	1415.0	263.8	81	388.5
T Mar 2009	1037	16.9	1107.40	12164	-376	0.00	950.0	415.9	55	401.2
O Apr 2009	1174	19.7	1101.26	11604	-560	0.00	1284.0	474.0	76	403.7
R May 2009	977	15.9	1096.92	11217	-387	0.00	1411.0	381.7	85	390.6
I Jun 2009	750	12.6	1095.26	11071	-146	0.00	1641.0	287.2	100	383.1
C Jul 2009	840	13.7	1094.20	10978	-93	0.00	1640.0	324.9	100	386.9
A Aug 2009	801	13.0	1093.73	10938	-41	0.00	1648.0	307.5	100	383.8
L Sep 2009	574	9.7	1093.68	10933	-4	0.00	1656.0	215.3	100	374.9
WY 2009	9210							3592.3		
* Oct 2009	613	10.0	1093.26	10897	-37	0.00	1158.0	235.5	70	384.4
Nov 2009	653	11.0	1093.62	10928	31	447.07	1358.0	258.7	82	396.3
Dec 2009	598	9.7	1096.37	11169	241	448.01	1239.0	238.3	74	398.2
Jan 2010	688	11.2	1100.03	11494	325	448.24	1394.0	274.0	83	398.2
Feb 2010	676	12.2	1102.20	11689	195	451.57	1179.0	276.3	69	408.7
Mar 2010	1014	16.5	1101.37	11614	-75	451.20	1273.0	415.2	75	409.3
Apr 2010	1108	18.6	1100.46	11532	-82	449.27	1371.0	457.1	81	412.7
May 2010	1005	16.3	1100.62	11547	15	447.55	1582.0	401.6	94	399.7
Jun 2010	887	14.9	1101.63	11637	90	447.80	1688.0	355.6	100	400.9
Jul 2010	903	14.7	1103.24	11783	145	449.59	1697.0	362.5	100	401.6
Aug 2010	809	13.1	1105.89	12025	242	451.86	1710.0	329.0	100	407.0
Sep 2010	668	11.2	1105.00	11944	-81	453.88	1707.0	267.3	100	400.1
WY 2010	9621							3871.1		
Oct 2010	438	7.1	1106.67	12097	154	458.43	1395.0	175.2	81	399.8
Nov 2010	566	9.5	1107.00	12127	30	461.14	1382.0	229.7	81	405.5
Dec 2010	537	8.7	1109.67	12375	248	460.05	1512.0	214.0	87	398.3
Jan 2011	674	11.0	1111.71	12567	191	460.92	1403.0	274.3	80	407.2
Feb 2011	673	12.1	1111.82	12576	10	460.17	1533.0	276.9	88	411.2
Mar 2011	1005	16.3	1108.10	12229	-347	457.91	1523.0	411.7	88	409.7
Apr 2011	1139	19.1	1103.70	11825	-404	454.23	1404.4	476.7	81	418.5
May 2011	1008	16.4	1101.82	11654	-171	449.76	1621.5	404.8	94	401.7
Jun 2011	898	15.1	1102.21	11690	35	448.68	1726.0	361.2	100	402.3
Jul 2011	897	14.6	1103.33	11791	102	449.92	1726.0	360.3	100	401.5
Aug 2011	801	13.0	1105.36	11977	186	451.65	1726.0	325.4	100	406.3
Sep 2011	615	10.3	1105.00	11944	-33	453.62	1726.0	247.3	100	402.1
WY 2011	9252							3757.4		
Oct 2011	467	7.6	1106.39	12071	127	458.29	1403.9	188.5	81	403.4

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18

Davis Dam - Lake Mohave

	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
* Nov 2008	603	10.1	635.28	1493	49	0.00	186.2	71.8	73	119.1
H Dec 2008	339	5.5	638.77	1585	91	0.00	163.2	42.1	64	124.2
I Jan 2009	655	10.6	641.08	1647	62	0.00	155.6	80.8	61	123.4
S Feb 2009	629	11.3	642.29	1679	33	0.00	193.8	79.3	76	126.1
T Mar 2009	1035	16.8	641.38	1655	-25	0.00	255.0	121.2	100	117.1
O Apr 2009	1097	18.4	643.11	1702	47	0.00	255.0	135.7	100	123.7
R May 2009	916	14.9	644.36	1736	34	0.00	255.0	115.6	100	126.3
I Jun 2009	788	13.2	641.92	1669	-67	0.00	255.0	99.5	100	126.2
C Jul 2009	835	13.6	641.37	1654	-15	0.00	255.0	101.8	100	121.9
A Aug 2009	756	12.3	641.90	1669	14	0.00	255.0	94.4	100	124.8
L Sep 2009	726	12.2	635.60	1501	-167	0.00	255.0	89.2	100	122.8
WY 2009	9008							1106.2		
* Oct 2009	623	10.1	634.34	1469	-33	0.00	216.8	74.2	85	119.1
Nov 2009	605	10.2	635.50	1499	30	129.70	183.6	72.4	72	119.7
Dec 2009	495	8.0	638.70	1583	84	131.81	188.7	60.6	74	122.4
Jan 2010	582	9.5	641.80	1666	83	135.19	186.2	72.6	73	124.7
Feb 2010	661	11.9	641.80	1666	0	136.23	204.0	82.8	80	125.2
Mar 2010	954	15.5	643.05	1700	34	135.64	247.3	118.8	97	124.6
Apr 2010	1081	18.2	643.00	1699	-2	136.07	255.0	134.5	100	124.4
May 2010	970	15.8	643.00	1699	0	136.04	255.0	121.3	100	125.0
Jun 2010	887	14.9	642.00	1671	-27	135.51	255.0	110.8	100	124.9
Jul 2010	893	14.5	641.50	1658	-14	134.73	255.0	111.0	100	124.3
Aug 2010	784	12.7	641.50	1658	0	134.46	255.0	97.7	100	124.7
Sep 2010	745	12.5	638.00	1564	-94	132.63	255.0	91.7	100	123.2
WY 2010	9280							1148.3		
Oct 2010	564	9.2	633.00	1434	-130	128.65	237.2	68.0	93	120.5
Nov 2010	497	8.4	635.00	1486	51	127.14	234.6	59.4	92	119.5
Dec 2010	420	6.8	638.71	1583	97	130.00	239.7	51.6	94	122.7
Jan 2011	568	9.2	641.80	1666	83	134.16	219.3	70.9	86	124.8
Feb 2011	659	11.9	641.80	1666	0	135.05	244.8	82.5	96	125.2
Mar 2011	944	15.4	643.05	1700	34	135.44	255.0	117.7	100	124.6
Apr 2011	1112	18.7	643.00	1699	-2	136.07	255.0	138.2	100	124.2
May 2011	973	15.8	643.00	1699	0	136.04	255.0	121.6	100	125.0
Jun 2011	898	15.1	642.00	1671	-27	135.51	255.0	112.0	100	124.8
Jul 2011	888	14.4	641.50	1658	-14	134.73	255.0	110.4	100	124.3
Aug 2011	776	12.6	641.50	1658	0	134.46	255.0	96.7	100	124.7
Sep 2011	692	11.6	638.00	1564	-94	132.63	255.0	85.4	100	123.5
WY 2011	8991							1114.5		
Oct 2011	593	9.6	633.00	1434	-130	128.65	237.2	71.4	93	120.4

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 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18
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
*	Nov 2008	379	6.4	447.54	571	18	0.00	90.0	26.2	75	69.1
H	Dec 2008	236	3.8	446.81	558	-14	0.00	85.2	15.3	71	64.7
I	Jan 2009	379	6.2	446.67	555	-3	0.00	78.0	25.9	65	68.2
S	Feb 2009	397	7.2	446.08	544	-11	0.00	90.0	27.2	75	68.5
T	Mar 2009	736	12.0	446.75	556	12	0.00	87.6	49.2	73	66.8
O	Apr 2009	784	13.2	448.75	595	38	0.00	111.6	53.8	93	68.6
R	May 2009	647	10.5	448.71	594	-1	0.00	120.0	44.9	100	69.4
I	Jun 2009	595	10.0	448.49	590	-4	0.00	120.0	41.3	100	69.5
C	Jul 2009	655	10.6	448.11	582	-7	0.00	120.0	43.4	100	66.3
A	Aug 2009	582	9.5	448.19	584	2	0.00	118.8	39.9	99	68.6
L	Sep 2009	505	8.5	447.16	564	-19	0.00	87.6	35.0	73	69.2
	WY 2009	6347							433.2		
*	Oct 2009	446	7.2	448.03	581	16	0.00	90.0	30.5	75	68.5
	Nov 2009	375	6.3	447.50	570	-10	78.14	63.6	25.2	53	67.1
	Dec 2009	291	4.7	447.00	561	-9	77.01	73.2	18.9	61	64.7
	Jan 2010	352	5.7	446.50	552	-9	76.98	66.0	23.2	55	65.8
	Feb 2010	444	8.0	446.50	552	0	75.13	93.6	29.0	78	65.2
	Mar 2010	708	11.5	446.70	555	4	74.01	120.0	46.0	100	64.9
	Apr 2010	775	13.0	448.71	594	38	75.09	120.0	51.1	100	66.0
	May 2010	696	11.3	448.71	594	0	76.06	120.0	46.3	100	66.5
	Jun 2010	675	11.3	448.71	594	0	76.06	120.0	44.8	100	66.5
	Jul 2010	717	11.7	448.00	580	-14	75.72	120.0	47.5	100	66.3
	Aug 2010	615	10.0	447.50	571	-10	75.13	120.0	40.3	100	65.5
	Sep 2010	528	8.9	446.80	557	-13	74.55	120.0	34.2	100	64.8
	WY 2010	6622							437.0		
	Oct 2010	442	7.2	446.31	548	-9	73.97	120.0	28.2	100	63.9
	Nov 2010	372	6.2	446.50	552	3	75.04	93.6	23.9	78	64.4
	Dec 2010	282	4.6	446.50	552	0	74.66	103.2	17.7	86	62.8
	Jan 2011	341	5.5	446.50	552	0	75.01	96.0	21.8	80	63.9
	Feb 2011	452	8.1	446.50	552	0	74.71	102.0	29.3	85	64.9
	Mar 2011	718	11.7	446.70	555	4	74.01	120.0	46.6	100	65.0
	Apr 2011	820	13.8	448.71	594	38	75.09	120.0	54.2	100	66.1
	May 2011	700	11.4	448.71	594	0	76.06	120.0	46.5	100	66.5
	Jun 2011	664	11.2	448.71	594	0	76.06	120.0	44.1	100	66.4
	Jul 2011	722	11.7	448.00	580	-14	75.72	120.0	47.8	100	66.3
	Aug 2011	625	10.2	447.50	571	-10	75.13	120.0	41.0	100	65.5
	Sep 2011	539	9.1	446.80	557	-13	74.55	120.0	34.9	100	64.9
	WY 2011	6675							436.2		
	Oct 2011	447	7.3	446.31	548	-9	73.97	120.0	28.6	100	63.9

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 Y M R E S E R V O I R S

Bureau of Reclamation - CRFS 11/2009 Most Prob Water Supply 10-Nov-2009 15:38:18
Upper Basin Power

	Glen Canyon 1000 MWHR	Flam Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Res 1000 MWHR	Font Res 1000 MWHR
* Nov 2008	267	25	9	12	6	4
H Dec 2008	355	30	10	14	7	2
I Jan 2009	352	31	11	15	6	4
S Feb 2009	262	24	12	15	4	3
T Mar 2009	271	20	14	15	10	3
Winter 2009	1757	148	80	101	51	18
O Apr 2009	260	19	17	24	16	3
R May 2009	256	57	33	55	23	4
I Jun 2009	301	38	54	66	22	8
C Jul 2009	371	47	45	53	22	8
A Aug 2009	368	50	39	46	23	9
L Sep 2009	275	48	28	35	20	6
Summer 2009	1832	259	216	278	125	38
* Oct 2009	285	44	24	28	14	4
Nov 2009	291	38	8	9	5	0
Dec 2009	359	39	15	18	10	6
Jan 2010	398	39	24	31	15	5
Feb 2010	331	36	17	22	11	5
Mar 2010	370	40	10	13	7	5
Winter 2010	2034	236	98	122	63	24
Apr 2010	414	39	12	19	12	6
May 2010	423	56	17	30	20	7
Jun 2010	436	66	14	24	17	9
Jul 2010	462	37	27	33	18	10
Aug 2010	445	37	38	45	22	10
Sep 2010	248	35	32	40	20	4
Summer 2010	2427	269	141	191	108	44
Oct 2010	255	37	21	26	13	5
Nov 2010	249	35	9	11	6	6
Dec 2010	331	36	30	37	19	6
Jan 2011	329	36	27	34	17	6
Feb 2011	246	33	17	23	12	5
Mar 2011	246	36	12	17	9	5
Winter 2011	1656	214	115	147	76	32
Apr 2011	287	35	14	22	13	5
May 2011	346	52	22	36	23	7
Jun 2011	421	68	22	33	22	9
Jul 2011	448	41	35	43	23	10
Aug 2011	425	41	38	45	23	10
Sep 2011	252	40	35	42	21	3
Summer 2011	2180	278	166	220	126	44
Oct 2011	260	37	21	26	13	7

BUREAU OF RECLAMATION - CRFS 11/2009 MOST PROB WATER SUPPLY JOB STARTED:Tus NOV 10 15:45:48 2009

model_run_id = 2040

F L O O D C O N T R O L C R I T E R I A
B E G I N N I N G O F M O N T H C O N D I T I O N S

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 SCHED REL KAF	MEAD FC REL KAF	SYS CONT MAF
		* * * * 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 * * * *								
NOV	2009	497	226	413	9069	10205	16483	26689	497	226	413	1136	9069	16483	26689	3810	653	0	33.6
DEC	2009	552	226	426	9292	10495	16452	26947	552	226	426	1204	9292	16452	26947	4580	598	0	33.5
JAN	2010	621	248	440	9647	10956	16211	27167	621	248	440	1309	9647	16211	27167	5350	688	0	33.3
									* * * * E F F E C T I V E S P A C E * * * *										
JAN	2010	621	248	440	9647	10956	16211	27167	198	246	252	697	9647	16211	26555	5350	688	0	33.3
FEB	2010	692	308	454	10096	11550	15886	27436	268	305	266	839	10096	15886	26821	1500	676	0	33.1
MAR	2010	751	346	458	10440	11995	15691	27687	325	343	269	937	10440	15691	27069	1500	1014	0	32.7
APR	2010	792	349	424	10738	12303	15766	28069	364	346	229	939	10738	15766	27443	1500	1108	0	32.5
MAY	2010	789	317	368	10963	12436	15848	28284	355	313	154	822	10963	15848	27633	1500	1005	0	33.3
JUN	2010	731	193	301	10419	11644	15833	27478	289	181	55	525	10419	15833	26778	1500	887	0	34.8
JUL	2010	557	34	325	9363	10278	15743	26021	100	2	30	132	9363	15743	25238	1500	903	0	34.9
									* * * * C R E D I T A B L E S P A C E * * * *										
AUG	2010	475	27	345	9476	10322	15597	25920	475	27	345	847	9476	15597	25920	1500	809	0	34.5
SEP	2010	501	86	369	9951	10908	15355	26263	501	86	369	957	9951	15355	26263	2270	668	0	34.1
OCT	2010	550	146	372	10038	11106	15436	26542	550	146	372	1068	10038	15436	26542	3040	438	0	34.0
NOV	2010	598	176	368	10101	11243	15283	26526	598	176	368	1142	10101	15283	26526	3810	566	0	33.9
DEC	2010	647	173	368	10165	11354	15253	26607	647	173	368	1189	10165	15253	26607	4580	537	0	33.9
JAN	2011	713	248	377	10413	11751	15005	26756	713	248	377	1338	10413	15005	26756	5350	674	0	33.8
									* * * * E F F E C T I V E S P A C E * * * *										
JAN	2011	713	248	377	10413	11751	15005	26756	387	248	155	790	10413	15005	26208	5350	674	0	33.8
FEB	2011	773	315	388	10692	12168	14813	26982	446	315	165	925	10692	14813	26431	1500	673	0	33.5
MAR	2011	820	352	387	10826	12385	14804	27189	491	352	163	1005	10826	14804	26635	1500	1005	0	33.2
APR	2011	821	360	371	10837	12390	15151	27540	487	360	141	989	10837	15151	26977	1500	1139	0	33.1
MAY	2011	782	338	302	10770	12192	15555	27748	442	338	53	833	10770	15555	27158	1500	1008	0	34.1
JUN	2011	672	212	315	9836	11035	15726	26761	321	210	34	564	9836	15726	26126	1500	898	0	35.7
JUL	2011	474	36	377	8550	9438	15690	25128	107	9	48	164	8550	15690	24405	1500	897	0	36.0
									* * * * C R E D I T A B L E S P A C E * * * *										
AUG	2011	385	27	380	8424	9217	15589	24806	385	27	380	793	8424	15589	24806	1500	801	0	35.7
SEP	2011	416	77	391	8779	9663	15403	25066	416	77	391	884	8779	15403	25066	2270	615	0	35.4
OCT	2011	478	147	389	8822	9835	15436	25272	478	147	389	1014	8822	15436	25272	3040	467	0	35.2