

BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
BOULDER CITY, NEVADA

ACCUMULATIONS FOR NOVEMBER 2003

DAY	GLEN CANYON		LAKE MEAD ELEV.	HOOVER DAM					LAKE MOHAVE ELEV.	DAVIS DAM			MWD		LAKE HAVASU ELEV.	PARKER DAM			C.A.P.				
	CFS	ACCUM. A.F.		HOOVER CFS	RELEASE A.F.	ACCUM.	GROSS GEN	RATE KWH/AF		DAVIS CFS	RELEASE A.F.	ACCUM.	GROSS GEN	DIVER. A.F.		AT INTAKE ACCUM.	PARKER CFS	RELEASE A.F.	ACCUM.	GROSS GEN.	DIVER. A.F.	ACCUM. A.F.	
1	8200	16264	1141.14	9672	19184	19184	8028	418	634.15	10900	21612	21612	2528	1995	1995	447.37	7480	14843	14843	961	6062	6062	
2	7500	31140	1141.13	8196	16256	35439	6575	404	634.06	8970	17796	39408	2065	1952	3947	447.32	7170	14227	29070	953	5179	11240	
3	8100	47207	1141.01	13173	26128	61567	11393	436	634.43	8550	16960	56368	1981	1487	5434	447.24	6770	13425	42495	896	4879	16119	
4	8100	63273	1140.91	13388	26556	88123	11621	438	634.65	9860	19564	75932	2291	1490	6924	447.14	6770	13438	55933	875	4876	20995	
5	8100	79339	1140.81	11398	22608	110730	9746	431	634.63	12830	25448	101380	3017	1495	8419	447.22	6190	12276	68209	791	5465	26460	
6	8100	95405	1140.71	11368	22548	133278	9756	433	634.56	12760	25316	126696	2991	1527	9946	447.58	5470	10858	79067	705	6022	32481	
7	8100	111471	1140.69	10226	20284	153562	8612	425	634.45	10520	20864	147560	2453	1983	11928	447.70	6960	13812	92879	925	6014	38495	
8	8000	127339	1140.69	7167	14216	167778	5837	411	634.20	10530	20892	168452	2443	1994	13922	447.64	6980	13841	106720	928	6014	44509	
9	7500	142215	1140.63	9773	19384	187161	8123	419	634.20	10030	19896	188348	2326	1998	15920	447.62	7000	13881	120601	932	5213	49722	
10	8200	158479	1140.60	9391	18628	205789	7911	425	634.22	9080	18012	206360	2103	2005	17925	447.70	5820	11552	132153	773	4924	54645	
11	8000	174347	1140.59	10329	20488	226277	8834	431	634.34	9070	17984	224344	2100	1996	19921	447.57	6070	12045	144198	808	5854	60499	
12	8100	190413	1140.55	10642	21108	247384	9070	430	634.39	9100	18056	242400	2110	2000	21921	447.59	4520	8962	153160	593	6063	66562	
13	8100	206479	1140.43	12636	25064	272448	10906	435	634.81	8140	16136	258536	1874	2001	23922	447.77	3720	7378	160538	465	5962	72523	
14	8100	222545	1140.34	13647	27068	299516	11826	437	635.06	9050	17944	276480	2099	2011	25933	447.83	3990	7911	168449	504	6062	78585	
15	8000	238413	1140.35	8605	17068	316583	7160	420	635.07	9190	18224	294704	2140	1995	27928	447.80	5000	9923	178372	651	6063	84648	
16	7500	253289	1140.36	7742	15356	331939	6302	410	635.14	7520	14912	309616	1741	2013	29941	447.80	4960	9841	188213	644	6065	90712	
17	8100	269355	1140.35	9430	18704	350643	8028	429	635.21	7970	15800	325416	1851	2009	31949	447.70	4640	9202	197415	613	6062	96774	
18	8100	285421	1140.28	12057	23916	374559	10283	430	635.54	8000	15864	341280	1868	2010	33959	447.69	4180	8283	205698	540	5959	102733	
19	8100	301488	1140.18	12660	25112	399670	11002	438	635.79	8050	15967	357247	1870	3407	37366	447.63	3760	7466	213164	472	5962	108695	
20	8200	317752	1140.10	13955	27680	427350	11995	433	636.20	8150	16168	373415	1897	3388	40754	447.48	4960	9842	223006	636	6011	114705	
21	8100	333818	1139.90	13110	26004	453353	11302	435	636.55	8040	15944	389359	1874	3391	44145	447.14	5850	11603	234609	756	6056	120761	
22	8100	349884	1139.90	10160	20152	473505	8639	429	636.61	8940	17732	407091	2105	3304	47449	446.93	6270	12427	247036	807	5937	126698	
23	7400	364562	1139.77	13153	26088	499593	11240	431	636.95	8930	17720	424811	2106	3267	50715	446.66	6310	12524	259560	816	6048	132745	
24	8100	380628	1139.65	12088	23976	523568	10315	430	637.01	10630	21076	445887	2520	3394	54109	446.50	5600	11111	270671	697	5955	138700	
25	8100	396694	1139.61	9127	18104	541672	7683	424	636.79	11470	22760	468647	2723	3389	57498	446.50	5710	11333	282004	731	6045	144745	
26	8100	412760	1139.57	12537	24868	566540	10707	431	636.92	10330	20496	489143	2460	2151	59649	446.49	7440	14753	296757	937	6046	150790	
27	7400	427438	1139.48	10983	21784	588323	9409	432	637.05	9970	19784	508927	2357	2126	61775	446.64	4480	8893	305650	557	6047	156837	
28	8100	443504	1139.50	8242	16348	604671	6801	416	636.83	10010	19853	528780	2380	1994	63769	446.67	5460	10829	316479	676	5997	162834	
29	8100	459570	1139.48	8204	16272	620943	6745	415	636.74	9930	19704	548484	2350	2028	65797	446.82	4990	9906	326385	625	6047	168881	
30	7900	475240	1139.48	8063	15992	636935	6638	415	636.53	9900	19636	568120	2338	1600	67397	446.96	4990	9889	336274	624	6048	174928	
TOTAL							272487						66961							21892			

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AVAILABLE RESERVOIR ELEVATIONS AND CONTENTS FOR NOVEMBER 2003

AVAILABLE CAPACITY IN A.F. ELEVATION IN FEET			LAKE MEAD *25877000 1219.6			LAKE MOHAVE 1809800 647.0			LAKE HAVASU 619400 450.0			SENATOR WASH 9144 240.0			
DAY	TOTAL SYSTEM STORAGE**	TOTAL AVAILABLE SPACE	ELEVATION FEET	HOOVER CONTENT 1000A.F.	RELEASE ft3/s	ELEVATION FEET	DAVIS CONTENT 1000A.F.	RELEASE ft3/s	ELEVATION FEET	PARKER CONTENT 1000A.F.	RELEASE ft3/s	ELEVATION FEET	SENATOR WASH CONTENT A.F.	PUMPED ft3/s	RELEASE ft3/s
1	33529.7	27352.3	1141.14	15514	9670	634.15	1463.9	10900	447.37	568.0	7480	238.07	8426	434	0
2	33520.2	27361.9	1141.13	15513	8200	634.06	1461.5	8970	447.32	567.1	7170	239.77	9058	392	0
3	33506.7	27375.3	1141.01	15500	13200	634.43	1470.9	8550	447.24	565.7	6770	239.65	9013	50	0
4	33494.0	27388.0	1140.91	15489	13400	634.65	1476.7	9860	447.14	563.8	6770	239.33	8892	55	0
5	33480.6	27401.4	1140.81	15479	11400	634.63	1476.2	12800	447.22	565.3	6190	239.04	8783	130	34
6	33468.0	27414.0	1140.71	15468	11400	634.56	1474.3	12800	447.58	572.0	5470	236.11	7730	6	490
7	33455.9	27426.2	1140.69	15466	10200	634.45	1471.7	10500	447.70	574.3	6960	235.48	7513	111	173
8	33443.2	27438.9	1140.69	15466	7170	634.20	1465.2	10500	447.64	573.2	6980	233.19	6755	0	366
9	33428.0	27454.1	1140.63	15459	9770	634.20	1465.2	10000	447.62	572.9	7000	235.52	7527	461	0
10	33438.1	27444.0	1140.60	15456	9390	634.22	1465.8	9080	447.70	574.2	5820	237.15	8095	508	0
11	33432.8	27449.3	1140.59	15455	10300	634.34	1468.9	9070	447.57	571.8	6070	238.23	8485	294	0
12	33429.1	27453.0	1140.55	15451	10600	634.39	1470.1	9100	447.59	572.2	4520	239.85	9088	404	0
13	33437.5	27444.5	1140.43	15438	12600	634.81	1480.8	8140	447.77	575.7	3720	239.93	9117	100	0
14	33431.3	27450.8	1140.34	15428	13600	635.06	1487.3	9050	447.83	576.9	3990	239.42	8926	0	0
15	33431.2	27450.9	1140.35	15429	8600	635.07	1487.5	9190	447.80	576.3	5000	239.64	9009	164	0
16	33426.5	27455.6	1140.36	15431	7740	635.14	1489.3	7520	447.80	576.2	4960	239.97	9133	146	0
17	33421.6	27460.5	1140.35	15429	9430	635.21	1491.1	7970	447.70	574.3	4640	239.83	9080	184	98
18	33419.3	27462.8	1140.28	15422	12100	635.54	1499.7	8000	447.69	574.1	4180	239.50	8956	108	42
19	33409.3	27472.8	1140.18	15411	12700	635.79	1506.2	8050	447.63	573.0	3760	239.64	9009	120	0
20	33402.4	27479.6	1140.10	15403	14000	636.20	1517.0	8150	447.48	570.1	4960	237.49	8217	22	404
21	33376.8	27505.3	1139.90	15382	13100	636.55	1526.0	8040	447.14	563.7	5850	231.82	6323	0	1061
22	33369.9	27512.1	1139.90	15382	10200	636.61	1527.7	8940	446.93	559.8	6270	226.06	4687	0	846
23	33350.4	27531.7	1139.77	15368	13200	636.95	1536.7	8930	446.66	554.9	6310	222.22	3752	0	408
24	33326.0	27556.1	1139.65	15355	12100	637.01	1538.2	10600	446.50	552.0	5600	218.08	2876	0	454
25	33305.0	27577.1	1139.61	15351	9130	636.79	1532.4	11500	446.50	551.7	5710	214.69	2270	0	326
26	33296.7	27585.3	1139.57	15347	12500	636.92	1535.9	10300	446.49	551.7	7440	211.65	1803	0	258
27	33291.1	27590.9	1139.48	15337	11000	637.05	1539.2	9970	446.64	554.3	4480	218.80	3020	626	0
28	33280.4	27601.7	1139.50	15339	8240	636.83	1533.5	10000	446.67	554.8	5460	219.49	3160	177	86
29	33274.4	27607.6	1139.48	15337	8200	636.74	1531.0	9930	446.82	557.9	4990	224.19	4290	589	0
30	33260.3	27621.8	1139.48	15337	8060	636.53	1525.6	9900	446.96	560.3	4990	226.74	4865	338	0
TOTAL					321200			286310			169510			5419	5046
AVE.					10710			9540			5650			181	168
AC FT					637000			568000			336000			10748	10009

\* BOTTOM OF EXCLUSIVE FLOOD CONTROL SPACE  
 \*\* INCLUDES FONTENELLE AND CRYSTAL RESERVOIRS

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COLORADO RIVER STORAGE PROJECT DATA (operational) FOR NOVEMBER 2003

DATE	LAKE POWELL				FLAMING GORGE			NAVAJO			BLUE MESA			MORROW POINT		
	COMPUTED INFLOW FT3/S	MAX. STORAGE (AF)	MAX. ELEV. (FEET)	CONTENT (1000 AF)	RELEASE FT3/S	MAX. STORAGE (AF)	MAX. ELEV. (FEET)	CONTENT (1000 AF)	RELEASE FT3/S	MAX. STORAGE (AF)	MAX. ELEV. (FEET)	CONTENT (1000 AF)	RELEASE FT3/S	MAX. STORAGE (AF)	MAX. ELEV. (FEET)	CONTENT (1000 AF)
1	5700	3601.85	11927	8200	6009.38	2620	850	5996.46	710	400	7458.89	364.4	0	7149.35	108.6	250
2	5700	3601.80	11923	7500	6009.38	2620	850	5996.42	710	400	7458.94	364.7	370	7149.60	108.8	300
3	5900	3601.71	11914	8100	6009.38	2620	850	5996.46	710	270	7458.94	364.7	370	7149.85	109.0	310
4	5900	3601.66	11909	8100	6009.37	2620	850	5996.40	710	250	7458.97	364.9	300	7149.84	109.0	330
5	5900	3601.62	11905	8100	6009.36	2620	850	5996.50	710	250	7458.95	364.8	390	7150.20	109.2	280
6	5800	3601.56	11900	8100	6009.35	2620	850	5996.50	710	250	7458.97	364.9	280	7150.30	109.3	270
7	5900	3601.47	11891	8100	6009.34	2620	850	5996.52	710	250	7458.99	365.1	280	7150.39	109.4	280
8	5700	3601.43	11887	8000	6009.33	2620	850	5996.52	710	250	7459.11	365.8	0	7149.46	108.7	380
9	5800	3601.35	11879	7500	6009.32	2620	840	5996.52	710	250	7459.09	365.7	490	7149.84	109.0	350
10	6000	3601.47	11891	8200	6009.31	2620	850	5996.53	710	250	7459.14	366.0	300	7149.92	109.0	320
11	5800	3601.42	11886	8000	6009.30	2620	850	5996.55	710	250	7459.14	366.0	410	7150.41	109.4	260
12	5900	3601.41	11885	8100	6009.29	2620	850	5996.59	710	250	7459.19	366.3	220	7150.27	109.3	310
13	6200	3601.48	11892	8100	6009.29	2620	850	5996.65	710	250	7459.25	366.6	170	7150.16	109.2	270
14	6700	3601.43	11887	8100	6009.29	2620	850	5996.72	710	250	7459.27	366.8	330	7150.36	109.4	280
15	6900	3601.42	11886	8000	6009.29	2620	850	5996.76	710	250	7459.41	367.6	0	7149.51	108.7	350
16	6700	3601.34	11878	7500	6009.29	2620	850	5996.82	710	250	7459.43	367.7	310	7149.63	108.8	290
17	6400	3601.30	11875	8100	6009.29	2620	850	5996.82	710	250	7459.45	367.9	390	7150.03	109.1	270
18	6200	3601.27	11872	8100	6009.28	2620	850	5996.87	710	250	7459.42	367.7	460	7150.56	109.5	270
19	6000	3601.23	11868	8100	6009.27	2620	850	5996.85	710	250	7459.45	367.9	240	7150.68	109.6	230
20	5800	3601.17	11862	8200	6009.26	2620	850	5996.85	710	250	7459.49	368.1	260	7150.81	109.7	230
21	5800	3601.10	11855	8100	6009.25	2620	850	5996.84	710	250	7459.53	368.4	310	7151.12	109.9	210
22	5700	3601.06	11851	8100	6009.24	2620	850	5996.83	710	250	7459.63	369.0	110	7150.95	109.8	200
23	5600	3600.97	11843	7400	6009.23	2620	850	5996.83	710	250	7459.63	369.0	250	7151.00	109.9	250
24	5600	3600.88	11834	8100	6009.22	2620	850	5996.80	710	250	7459.61	368.8	300	7151.34	110.1	180
25	5700	3600.78	11825	8100	6009.21	2620	850	5996.81	710	250	7459.61	368.8	300	7151.52	110.3	250
26	5600	3600.71	11818	8100	6009.20	2620	850	5996.77	710	250	7459.68	369.3	290	7151.71	110.4	250
27	5400	3600.70	11817	7400	6009.19	2620	850	5996.77	710	250	7459.69	369.3	230	7151.78	110.5	230
28	5100	3600.63	11810	8100	6009.18	2610	850	5996.75	710	250	7459.71	369.5	300	7152.32	110.9	110
29	5200	3600.59	11806	8100	6009.18	2610	850	5996.74	710	250	7459.80	370.0	0	7151.59	110.3	310
30	4800	3600.48	11796	7900	6009.17	2610	860	5996.73	710	250	7459.81	370.1	340	7151.87	110.5	260
TOT	175400			239600			25500			7820			8000			8080
AVE	5847			7990			850			260			270			270
A F	347900			475000			51000			15500			15900			16000

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GLEN CANYON TO HOOVER DAM LOSSES

NOVEMBER 2003

DATE	GLEN RELEASE CFS	HOOVER RELEASE CFS	LAKE MEAD STORAGE 1000 AF	STORAGE CHANGE 1000 AF	LAKE MEAD PUMPING CFS	LAKE MEAD EVAPORATION CFS	CHANGE BANK STORAGE CFS	LOSS CFS	ACCUMUL. A. F.	INFLOW CFS
1	8200	9670	15514	-3	714	-96759	-98	96144	190699	-87980
2	7500	8200	15513	-1	684	-96759	-33	96555	382212	-88410
3	8100	13200	15500	-13	618	-96759	-426	98086	576763	-89920
4	8100	13400	15489	-11	630	-96759	-360	96119	767413	-88630
5	8100	11400	15479	-10	721	-96759	-328	98129	962048	-90000
6	8100	11400	15468	-11	605	-96759	-360	98810	1158035	-90660
7	8100	10200	15466	-2	678	-96759	-66	95068	1346599	-86950
8	8000	7170	15466	0	718	-96759	0	96978	1538953	-88870
9	7500	9770	15459	-7	587	-96759	-229	98279	1733886	-90160
10	8200	9390	15456	-3	561	-96759	-98	96454	1925199	-88410
11	8000	10300	15455	-1	561	-96759	-33	93888	2111422	-86430
12	8100	10600	15451	-4	556	-96759	-131	95913	2301662	-87750
13	8100	12600	15438	-13	597	-96759	-426	98572	2497178	-90540
14	8100	13600	15428	-10	591	-96759	-328	96044	2687679	-87930
15	8000	8600	15429	1	575	-96759	33	95121	2876349	-87040
16	7500	7740	15431	2	477	-96759	66	95547	3065863	-87460
17	8100	9430	15429	-2	556	-96759	-66	95800	3255879	-87840
18	8100	12100	15422	-7	551	-96759	-229	95348	3444999	-87860
19	8100	12700	15411	-11	600	-96759	-360	97455	3638297	-89360
20	8200	14000	15403	-8	548	-96759	-262	94625	3825984	-86500
21	8100	13100	15382	-21	535	-96759	-688	102479	4029249	-94390
22	8100	10200	15382	0	536	-96759	0	94174	4216041	-86020
23	7400	13200	15368	-14	625	-96759	-459	98551	4411515	-90450
24	8100	12100	15355	-13	625	-96759	-426	99101	4608079	-91010
25	8100	9130	15351	-4	614	-96759	-131	96580	4799643	-89160
26	8100	12500	15347	-4	516	-96759	-131	93963	4986016	-85890
27	7400	11000	15337	-10	516	-96759	-328	98697	5181779	-90610
28	8100	8240	15339	2	523	-96759	66	94994	5370196	-86920
29	8100	8200	15337	-2	529	-96759	-66	96542	5561684	-89100
30	7900	8060	15337	0	603	-96759	0	96232	5752556	-88090
TOTAL	239500	321120			17750	-2902770			5752556	-2660400

