09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOWER COLORADO RIVER BASIN-LAKE MEAD, LAKE MEAD

LOCATION.--Lat 36°00′58″, long 114°44′13″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.3, T.30 N., R.23 W., Clark County, Hydrologic Unit 15010005, in powerhouse at downstream side of Hoover Dam, and at mi 342.2 upstream of the Southerly International Boundary.

DRAINAGE AREA.--17,1700 mi^2, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-STAGE RECORDS

PERIOD OF RECORD.--Contents: Feb 1935 to current year. Diversions (monthly totals only): to Boulder City area, since Oct 1935; to Henderson and Las Vegas areas, since Apr 1942; combined diversions since Oct 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft to Local Powerhouse datum.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb 1, 1935; dam completed Mar 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr 1, 1967), 29,755,000 acre-ft, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 895.0 ft--gate sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,221.4 ft (top of automatic spillway gates in raised position); uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, power development, and recreation. Figures given herein represent usable contents.

DIVERSIONS FROM LAKE MEAD: Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft, Jul 29, 30, 1941 (on basis of original bathymetry), gage height, 1,220.45 ft; maximum gage height, 1,225.85 ft, Jul 24, 1983 (equivalent to 26,868,000 acre-ft on basis of resurveyed bathymetry of 1963-64); minimum contents (since 1940), 10,695,000 acre-ft, Apr 26, 1956, gage height, 1,083.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,229,000 acre-ft, Mar 27, 28, gage height 1,147.75 ft; minimum, 13,940,000 acre-ft, Oct 1, gage height, 1,125.89 ft.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV—Continued

RESERVOIR STORAGE, THOUSAND ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13,940	14,090	14,366	14,365	15,128	15,758	16,224	15,868	15,577	15,435	15,280	15,360
2	13,944	14,087	14,365	14,371	15,138	15,777	16,227	15,848	15,558	15,436	15,283	15,366
3	13,954	14,092	14,362	14,382	15,154	15,803	16,224	15,831	15,538	15,438	15,284	15,372
4	13,963	14,095	14,358	14,372	15,172	15,823	16,221	15,818	15,533	15,437	15,290	15,378
5	13,961	14,097	14,357	14,388	15,192	15,852	16,204	15,802	15,534	15,431	15,284	15,383
6	13,964	14,106	14,349	14,401	15,206	15,876	16,183	15,812	15,527	15,418	15,288	15,380
7	13,971	14,116	14,344	14,411	15,224	15,901	16,163	15,809	15,515	15,407	15,286	15,368
8	13,973	14,114	14,343	14,432	15,226	15,918	16,156	15,810	15,509	15,393	15,293	15,356
9	13,979	14,114	14,348	14,458	15,231	15,936	16,172	15,788	15,500	15,394	15,288	15,349
10	13,989	14,122	14,347	14,494	15,242	15,959	16,181	15,788	15,496	15,399	15,286	15,350
11	13,992	14,127	14,357	14,546	15,260	15,980	16,171	15,770	15,505	15,392	15,276	15,346
12	13,991	14,134	14,359	14,646	15,283	16,003	16,150	15,749	15,506	15,375	15,273	15,359
13	13,990	14,140	14,358	14,695	15,303	16,028	16,128	15,731	15,499	15,359	15,276	15,354
14	13,991	14,147	14,359	14,730	15,321	16,046	16,112	15,717	15,493	15,355	15,291	15,348
15	13,992	14,151	14,358	14,759	15,338	16,062	16,099	15,697	15,490	15,347	15,300	15,338
16	13,998	14,153	14,359	14,790	15,357	16,075	16,095	15,699	15,483	15,346	15,302	15,323
17	13,993	14,156	14,360	14,814	15,378	16,100	16,089	15,703	15,481	15,343	15,305	15,314
18	13,993	14,153	14,367	14,830	15,412	16,123	16,078	15,697	15,485	15,342	15,306	15,310
19	13,995	14,154	14,370	14,842	15,452	16,146	16,055	15,679	15,485	15,324	15,314	15,293
20	14,007	14,154	14,371	14,868	15,486	16,166	16,025	15,666	15,479	15,322	15,322	15,282
21	14,017	14,159	14,373	14,894	15,524	16,188	16,000	15,661	15,470	15,314	15,335	15,271
22	14,024	14,153	14,360	14,918	15,556	16,193	15,987	15,671	15,469	15,315	15,339	15,256
23	14,033	14,187	14,358	14,940	15,583	16,189	15,979	15,664	15,478	15,315	15,337	15,258
24	14,044	14,251	14,355	14,963	15,619	16,203	15,964	15,651	15,478	15,330	15,336	15,256
25	14,047	14,319	14,359	14,975	15,655	16,209	15,945	15,635	15,487	15,322	15,330	15,256
26	14,051	14,369	14,363	14,990	15,691	16,217	15,925	15,631	15,489	15,317	15,327	15,251
27	14,058	14,388	14,359	15,012	15,717	16,229	15,902	15,633	15,485	15,308	15,331	15,240
28	14,063	14,375	14,360	15,037	15,739	16,229	15,887	15,622	15,478	15,301	15,337	15,229
29	14,074	14,373	14,368	15,070	---	16,223	15,870	15,617	15,456	15,294	15,338	15,229
30	14,089	14,367	14,364	15,096	---	16,218	15,869	15,615	15,441	15,288	15,348	15,219
31	14,094	---	14,355	15,119	---	16,220	---	15,593	---	15,288	15,351	---
Max	14,094	14,388	14,373	15,119	15,739	16,229	16,227	15,868	15,577	15,438	15,351	15,383
Min	13,940	14,087	14,343	14,365	15,128	15,758	15,869	15,593	15,441	15,288	15,273	15,219
Gege height, in feet, at end of month												
	1127.43	1130.13	1130.01	1137.40	1143.25	1147.66	1144.45	1141.89	1140.46	1139.01	1139.61	1138.36
Change in contents, in acre-feet.												
	+150,000	+273,000	-12,000	+764,000	+620,000	+481,000	-351,000	-276,000	-152,000	-153,000	+63,000	-132,000
Diversions, in acre-feet.												
	39,368	27,756	29,753	28,182	25,139	32,775	38,473	49,512	47,101	53,182	47,875	45,020

	Calendar Year 2004	Water Year 2005	Change in contents, in acre-feet.	Diversions, in acre-feet
Max	15,449	16,229	-1,092,000	453,460
Min	13,924	13,940	+1,275,000	464,136