GILA RIVER BASIN

09469000 SAN CARLOS RESERVOIR AT COOLIDGE DAM, AZ

LOCATION.--Lat 33°10'32", long 110°31'38", in NW1/4 sec. 17, T.3 S., R.18 E. (unsurveyed), Gila County, Hydrologic Unit 15040005, in San Carlos Indian Reservation, at right intake tower of Coolidge Dam on Gila River.

DRAINAGE AREA.--12,886 mi^2.

REVISED RECORDS.--WSP 1049: 1929, 1934, 1937–38. WSP 1283: Drainage area.

PERIOD OF RECORD.--Nov. 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,539.54 ft above sea level. Prior to Jan. 15, 1937, series of stakes with tops at known elevations for reference points on right bank about 1,000 ft upstream from dam. Jan. 15, 1937, to Dec. 31, 1947, water-stage recorder at present site at datum 0.72 ft lower.

REMARKS.--Records good. Reservoir is formed by concrete multiple-dome dam. Dam completed Oct. 25, 1928; storage began Nov. 15, 1928. Usable capacity (from capacity table computed by San Carlos Irrigation District, based on an estimate of sediment deposited since 1966; used since Jan. 1, 1991) 866,600 acre-ft between elevations 2,382.63 ft, sill of lowest outlet gate, and 2,510.4 ft (revised), crest of spillway. No dead storage. Figures given herein represent usable contents. Reservoir is used to store water for irrigation of San Carlos project and for power development, dependent on irrigation demands. In 1997 laws were passed that prohibited water users from using storage below 29,559 acre-ft. Spill over Coolidge Dam because of capacity storage has occurred Apr. 22 to May 5, 1979, Feb. 24 to Mar. 13, 1980, Oct. 4–23, 28–31, Dec. 3–13, 1983, Jan. 2 to June 5, 1985, Jan. 11 to Mar. 18, 1993.

COOPERATION.--Wire-weight gage readings furnished by Bureau of Indian Affairs.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,090,000 acre-ft Feb. 26 to Mar. 6, 1980; maximum elevation observed, 2,521.36 ft Jan. 20, 1993; no usable contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 33,960 acre-ft Apr. 22, elevation, 2,417.02 ft; minimum, 15,830 acre-ft Sept. 25, elevation, 2,409.04 ft.

RESERVOIR STORAGE, in (ACRE-FEET) WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29720	28720	29470	27320	27180	27230	30040	32440	22630	21300	20280	17990
2	29720	28650	29470	27440	27180	27250	30040	32260	22610	21260	20340	17910
3	29650	28620	29500	27460	27200	27320	29940	32230	22670	21130	20340	17700
4	29520	28620	29520	27460	27230	27370	29920	32100	22630	21090	20240	17700
5	29470	28600	29550	27440	27230	27820	29840	32050	22520	21060	19850	17570
6	29470	28570	29550	27340	27270	28160	29840	31920	22460	21060	19720	17510
7	29470	28550	29570	27110	27250	28990	29890	31670	22460	20980	19570	17370
8	29520	28530	29430	26900	27270	29470	29970	31390	22350	20830	19470	17310
9	29520	28500	29260	26780	27270	29600	30120	31000	22260	20910	19360	17210
10	29500	28480	29090	26690	27320	29570	30140	30520	22240	20910	19340	17090
11	29470	28480	28750	26710	27340	29430	30440	29970	22200	20850	19420	17010
12	29450	28650	28650	26690	27340	29520	30670	29500	22160	20810	19260	16930
13	29430	28650	28480	26690	27340	29570	30950	28800	22090	20680	19400	16750
14	29400	28650	28350	26740	27300	29770	31290	28180	22070	20720	19620	16570
15	29380	28670	28130	26780	27320	29890	31720	27530	22030	20740	19640	16530
16	29330	28650	27920	26830	27270	29990	32180	27110	21960	20660	19620	16490
17	29300	28770	27820	26880	27270	30070	32490	26550	21960	20590	19700	16460
18	29260	28890	27680	26920	27300	30140	32890	26060	21830	20640	19620	16480
19	29230	29040	27560	26970	27270	30170	33290	25590	21770	20590	19720	16460
20	29210	29110	27490	27020	27230	30190	33560	25080	21740	20550	20050	16340
21	29180	29300	27490	27020	27230	30240	33640	24670	21630	20490	20320	16250
22	29160	29230	27370	27110	27180	30220	33690	24180	21590	20530	19930	16210
23	29180	29330	27250	27060	27200	30220	33640	23700	21590	20320	19640	16150
24	29060	29350	27160	27180	27180	30340	33580	23140	21590	20340	19510	16060
25	28990	29450	27090	27110	27200	30440	33390	23000	21500	20410	19320	16040
26	28920	29500	26990	27200	27180	30440	33180	22780	21480	20240	19130	15890
27	28890	29450	26900	27180	27200	30520	33020	22720	21390	20200	18860	15910
28	28890	29430	26900	27180	27200	30540	32890	22650	21300	20160	18530	16130
29	28800	29470	26970	27180	27200	30590	32620	22670	21430	20160	18370	16340
30	28770	29470	27090	27200	---	30370	32490	22590	21370	20200	18290	16380
31	28750	---	27230	27160	---	30240	---	22630	---	20220	18130	---
MAX	29720	29500	29570	27460	27340	30590	33690	32440	22670	21300	20340	17990
MIN	28750	28480	26900	26690	27180	27230	29840	22590	21300	20160	18130	15890
(*)	2414.98	2415.28	2414.35	2414.32	2414.34	2415.59	2416.47	2412.34	2411.76	2411.22	2410.21	2409.33
(**)	-1030	+720	-2240	-70	+40	+3040	+2250	-9860	-1260	-1150	-2090	-1750

CAL YR 2003 MAX 42630 MIN 26900 (**) -9,550
WTR YR 2004 MAX 33690 MIN 15890 (**) -13,400

(*) Elevation, at end of month, in feet
(**) Changes in contents, in acre-feet