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, 441,400 acre-ft Mar. 28, elevation, 2,479.45 ft; minimum, 15,760 acre-ft Oct. 9, elevation 2,409.00.

Reservoir storage, 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	16380	17290	22030	23980	84430	387000	439400	423800	396600	350300	296100	261100
2	16300	17390	22010	24940	86130	392200	438700	423500	395000	348300	294600	259700
3	16300	17590	22010	26550	87380	396400	437900	423000	393900	346500	293500	258100
4	16170	17890	22030	27960	88550	400000	437500	422700	392500	344800	292800	256600
5	16040	18090	22030	32230	89570	403400	437000	421900	391100	343100	292100	255100
6	15960	18250	22180	35590	90630	406700	436800	421300	389300	341300	291100	253600
7	15910	18490	22370	41790	91480	409500	436400	420800	387900	339400	290100	252300
8	15810	18610	22540	48350	92150	412200	434800	420400	386500	337700	288700	250400
9	15760	18740	22810	54950	92650	414800	433900	419700	384800	336000	287600	249500
10	15780	18820	22940	59400	93240	417200	433100	418900	383400	334100	287200	248300
11	15830	18980	23030	62500	94200	419500	432300	418400	381700	332100	286300	247200
12	15790	19170	23120	64890	111000	421700	431800	417900	380200	330500	285600	245800
13	15790	19260	23180	66920	125200	423600	431100	417600	378800	328700	284900	244600
14	15810	19490	23120	68520	145900	425500	430600	416300	377300	326700	284200	243900
15	15890	19490	23140	70070	200800	427200	429900	415400	375900	325000	283300	243200
16	15920	19640	23120	71460	228100	428900	429500	414400	374200	323200	282500	241700
17	16000	19870	23070	72770	241900	430400	428800	413400	372400	321500	281600	241000
18	16040	20030	22980	73940	251500	432500	428100	412600	370800	319600	280500	240300
19	16070	20240	22890	74740	260300	433700	427500	411800	369400	317900	279100	239700
20	16150	20470	22850	75520	276400	435000	426700	410700	367900	315700	277800	238600
21	16150	20640	22760	75910	292800	436400	426400	409600	366500	314100	276400	237800
22	16190	20850	22720	76220	314600	437800	426200	408400	364600	312100	274900	237300
23	16210	20890	22830	76380	333600	438800	425600	407200	363400	310200	273800	236500
24	16210	20910	22830	76540	347000	439500	425200	406000	361900	308700	272500	235600
25	16230	21110	22830	76810	356400	440200	425000	404600	360100	307400	271000	234800
26	16300	21570	22830	77290	365100	440800	424900	403400	358400	305700	269700	234100
27	16260	21880	22960	77770	373500	441200	424400	402200	356900	304400	268400	233600
28	16300	22030	23090	78600	380800	441400	424100	401300	355000	302700	266900	232900
29	16630	22130	23590	79640	---	440500	424000	400200	353500	300800	265800	232300
30	16850	22110	23660	81230	---	440200	424000	398800	351800	299100	264000	231600
31	17190	---	23750	82790	---	439800	---	397800	---	297700	262500	---
MAX	17190	22130	23750	82790	380800	441400	439400	423800	396600	350300	296100	261100
MIN	15760	17290	22010	23980	84430	387000	424000	397800	351800	297700	262500	231600
(*)	2490.73	2412.10	2412.84	2431.84	2473.63	2479.30	2477.84	2475.32	2470.58	2464.47	2460.31	2456.41
(**)	+810	+4920	+1640	+59040	+298010	+59000	-15800	-26200	-46000	-54100	-35200	-30900

CAL YEAR 2004 MAX 33690 MIN 15760 (**) -3480
WTR YEAR 2005 MAX 441400 MIN 15760 (**) +215220

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