GILA RIVER BASIN

09501000 RESERVOIR SYSTEM ON SALT RIVER AT AND BELOW ROOSEVELT DAM, AZ

LOCATION.--This system comprises four storage reservoirs created by four separate dams on Salt River, Hydrologic Unit 15060106: Roosevelt Lake, formed by Roosevelt Dam in sec. 20, T.4 N., R.12 E. (unsurveyed), on State Highway 88; Apache Lake, formed by Horse Mesa Dam, 17 mi downstream from Roosevelt Dam; Canyon Lake, formed by Mormon Flat Dam, 27 mi downstream from Roosevelt Dam; Saguaro Lake, formed by Stewart Mountain Dam, 37 mi downstream from Roosevelt Dam. Contents given herein are combined usable contents of the four reservoirs.

DRAINAGE AREA.--6,211 mi^2, at Stewart Mountain Dam.

PERIOD OF RECORD.--Apr. 1910 to current year. Prior to Oct. 1934, monthend contents only, published in WSP 1313. Evaporation: Apr. 1958 to June 1963.

REVISED RECORDS.--WSP 1283: Drainage area. WRD Ariz. 1975: 1974.

GAGES.--Roosevelt Lake, water-stage indicator in powerplant connected to long distance transmitter on lake (water-stage recorder prior to Jan. 1, 1967); Apache Lake, water-stage indicator in powerplant connected to long distance transmitter on lake since Apr. 1949 (prior to that date, nonrecording gage or reference mark); Canyon and Saguaro Lakes, mercury column gages.

REMARKS.--Total capacity of the four reservoirs as of 1997 was 2,025,800 acre-ft, divided as follows: Roosevelt Lake, 1,653,000 acre-ft; Apache Lake, 245,000 acre-ft; Canyon Lake, 58,000 acre-ft; Saguaro Lake, 70,000 acre-ft. Dead storage negligible. Dams forming these reservoirs were built as follows: Roosevelt 1905–11; Horse Mesa 1924–27; Mormon Flat 1923–26; Stewart Mountain 1928–30. The four dams forming these reservoirs completely develop the fall in the Salt River from Roosevelt Lake to Stewart Mountain Dam. Elevation of water surface varies from 1,422.0 ft (sill of lowest outlet in Stewart Mountain Dam) to 2,151 ft (top of spillway). Records given herein represent usable contents. Prior to Oct. 1, 1972, contents were given at 2400 hours. Water from this system is used for irrigation of Salt River Valley, power generation, municipal purposes, and recreation.

COOPERATION.--Records of daily contents furnished by Salt River Valley Water Users' Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents of system, 1,764,000 acre-ft May 22, 1941; minimum, 20,680 acre-ft Sept. 16, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents of system at 0800 hours, 982,000 acre-ft May 4; minimum, 802,400 acre-ft Sept. 18.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812600	814600	824500	832500	842500	853800	932800	980100	959200	903900	845300	813500
2	812500	814400	824800	832200	842900	853400	934400	980900	957800	901400	843000	812300
3	812300	814300	824800	833000	843600	853900	936800	981500	956800	899400	840900	810900
4	812200	814200	825100	833300	843800	854500	938500	982000	955300	897600	838400	809700
5	812300	814100	825200	833500	844100	858900	940100	981900	953800	895900	835900	811900
6	812300	814200	825800	833800	844600	862600	942400	981600	952400	894300	832800	811800
7	812500	815300	826000	834500	844800	863700	944600	981300	951000	892200	830500	811600
8	812500	814800	826400	834400	845100	865300	946500	980600	949500	889700	829300	810700
9	812700	814900	826700	835200	845300	867500	948100	980100	947200	886900	827800	809700
10	813000	815100	826600	835000	845600	869400	950400	979600	945100	884200	826200	808800
11	813200	815100	826600	835100	846500	871700	952400	978700	943100	882300	824100	807800
12	813500	815300	827100	835500	846500	874700	954400	977800	941200	879800	822200	807000
13	813800	816700	827800	835700	846500	876600	956400	977000	939800	877700	820800	806200
14	814000	818000	828000	836000	846800	879600	959200	976200	938400	874500	819500	805700
15	813000	819400	828600	836400	846900	884000	961400	975500	937500	873000	819100	804600
16	813900	819900	828800	836500	847100	887900	963400	974900	934900	871500	819000	803800
17	814200	820700	828600	837100	847800	891300	965300	974600	933400	870100	819900	802900
18	814600	821200	828800	837100	847900	894400	966700	973700	931200	869600	820100	802400
19	814600	822000	829100	837500	848300	897500	967900	972600	929300	868700	820200	802700
20	814700	822400	829600	837700	848400	900700	969500	972000	927400	867100	821100	806600
21	814300	822700	829700	838400	848800	903900	970800	970800	925200	865000	821200	808600
22	814700	823500	829900	839000	849200	906600	972300	969600	923000	862700	821300	809200
23	814800	823500	830000	839200	849600	909400	973000	968400	920800	860200	820900	809400
24	814600	823200	830400	840000	850200	912400	974400	967600	918400	857700	819900	809600
25	814600	823600	830500	840300	850700	915400	975400	966600	916500	856300	819600	809400
26	814600	824000	831500	840700	851400	917400	976800	965500	914300	855300	818800	809000
27	814300	824100	831400	841100	851900	921700	977600	964600	912300	853800	817900	808800
28	814300	824300	831400	840900	852100	924600	978400	963300	910800	852700	817200	808500
29	814600	824100	832000	842100	853200	927100	979000	962100	908700	851300	816300	807900
30	814200	824300	832000	842100	---	929200	979400	961300	906300	849100	815600	807500
31	813900	---	832300	842300	---	931200	---	960200	---	847000	814200	---
MAX	814800	824300	832300	842300	853200	931200	979400	982000	959200	903900	845300	813500
MIN	812200	814100	824500	832200	842500	853400	932800	960200	906300	847000	814200	802400
(*)	+2000	+9900	+8000	+10000	+11300	+79000	+47300	-20900	-55300	-58600	-31800	-6600

CAL YR 2003 MAX 860000 MIN 545200 (*) +287300
WTR YR 2004 MAX 982000 MIN 802400 (*) -5700

(*) Change in contents, in acre-feet (from 0800 first of month)

Note--contents at 0800 Oct. 01,2004: 806,900