GILA RIVER BASIN

09509500 RESERVOIR SYSTEM ON VERDE RIVER AT AND BELOW HORSESHOE DAM, AZ

LOCATION.--This system comprises two storage reservoirs created by Horseshoe and Bartlett Dams on Verde River, Maricopa and Yavapai Counties, Hydrologic Unit 15060203. Gages on Horseshoe Reservoir, formed by Horseshoe Dam, lat 33°59'05", long 111°42'35", in sec. 2, T.7 N., R.6 E. (unsurveyed); and Bartlett Reservoir, formed by Bartlett Dam, lat 33°49'05", long 111°37'52", in sec. 34, T.6 N., R.7 E. (unsurveyed).

DRAINAGE AREA.--6,157 mi^2 (at Bartlett Dam), of which 365 mi^2 is noncontributing, including 357 mi^2 in Aubrey Valley Playa, a closed basin.

PERIOD OF RECORD.--July 1939 to current year. Prior to 1946 published as "Bartlett Reservoir at Bartlett Dam."

REVISED RECORDS.--WDR AZ--89--1: Drainage area.

GAGE.--Water-stage recorders on dam structures. Datum of gage on Horseshoe Reservoir is 1,900.00 ft and on Bartlett Reservoir 1,599.46 ft above sea level. Prior to Oct. 14, 1964, Bartlett Reservoir gage datum was 10.00 ft higher.

REMARKS.--Horseshoe Reservoir is formed by earthfill and rockfill dam; dam completed and storage began Nov. 15, 1945. Bartlett Reservoir is formed by concrete multiple-arch dam; dam completed May 1939 and storage began Feb. 5, 1939. Total capacity of the two reservoirs is 287,400 acre-ft divided as follows: Horseshoe Reservoir, 109,200 acre-ft between elevations 1,915.00 ft (sill of outlet gate) and 2,026.00 ft (top of spillway gates) based on capacity table derived from survey in April, 2002; Bartlett Reservoir, 178,200 acre-ft between elevations 1,619.46 ft (10 ft above sill of outlet gates) and 1,797.46 ft (top of spillway gates) based on capacity table dated 1978, based on survey in 1977--78. No dead storage. Records given herein represent usable contents. Water is used for irrigation of Salt River Valley and for municipal supply.

COOPERATION.--Capacity tables furnished by Salt River Valley Water Users' Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents of system, 318,000 acre-ft May 9, 1973; no storage at times when natural flow of river was passed through reservoir system.

EXTREMES FOR CURRENT YEAR.--Maximum contents of system, 139,800 acre-ft Sept. 30; minimum, 109,600 acre-ft Dec. 12,13, and 15.

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	137000	117400	112500	112600	116600	115600	137100	131700	127700	122200	122200	124500
2	136600	116800	112200	112700	116700	116200	137000	131100	127600	122000	122200	124500
3	136100	116400	111800	112900	116800	116800	137200	130600	127400	121900	122200	124400
4	135700	115900	111400	113100	117000	117300	137200	130300	127300	121800	122100	124400
5	135500	115500	110900	113100	116900	118100	137300	130300	127200	121700	122000	124300
6	135200	115100	110600	113200	116900	118600	137400	130300	127000	121600	121900	124100
7	134700	114700	110300	113100	116900	119400	137400	130300	126800	121800	121800	124100
8	133900	114300	110100	113100	116900	120400	137400	130300	126600	121600	121800	124000
9	133100	114000	109900	113300	117000	121600	137500	130300	126300	121500	121800	123900
10	132900	113700	109800	113500	116900	123100	137800	130200	126100	121400	121700	123900
11	132400	113500	109700	113700	116800	124800	137900	130100	125900	121200	121900	123900
12	132000	113700	109600	113900	116700	126800	138000	129900	125800	121000	121800	123900
13	131500	113900	109600	114200	116400	128500	138000	129800	125600	120500	121900	123800
14	131100	113900	109700	114300	116300	130200	138100	129600	125400	120300	122000	123700
15	130200	114000	109600	114600	116200	132000	138200	129600	125300	120200	122100	123500
16	129400	114300	109700	114800	115900	133300	138200	129500	125200	120200	122500	123400
17	128700	114500	109800	115100	115800	134400	138000	129300	125000	120000	122700	123400
18	127900	114800	109900	115100	115600	135200	137800	129200	124800	120300	123000	123300
19	127300	115100	110100	115100	115200	135800	137700	129200	124600	120400	123100	123800
20	126500	115100	110300	115100	115000	136400	137500	129000	124400	120700	123300	125000
21	125800	114900	110500	115200	114700	136900	137400	128900	124200	120800	123800	129500
22	125100	114600	110800	115300	114400	137200	136900	128700	124000	120900	124000	134400
23	124200	114200	110900	115500	114800	137500	136400	128600	123800	121100	124100	136200
24	123300	114000	111100	115700	114900	137700	136000	128400	123300	121400	124300	137300
25	122500	113600	111300	115900	115000	137800	135600	128300	123200	121500	124500	138100
26	121700	113500	111600	116000	115000	137800	135300	128200	123100	121700	124600	138600
27	121100	113400	111700	116200	115000	137700	134600	128100	122900	121800	124600	139000
28	120300	113300	111900	116300	115100	137800	133800	128000	122800	121800	124600	139400
29	119500	113200	112100	116400	115100	137800	133100	127900	123100	121900	124600	139700
30	118700	112900	112300	116400	---	137700	132400	127800	122400	122000	124600	139800
31	118000	---	112500	116500	---	137400	---	127800	---	122100	124600	---
MAX	137000	117400	112500	116500	117000	137800	138200	131700	127700	122200	124600	139800
MIN	118000	112900	109600	112600	114400	115600	132400	127800	122400	120000	121700	123300
(*)	-19200	-5100	-400	+4000	-1400	+22300	-5000	-4600	-5400	-300	+2500	+15200

CAL YR 2003 MAX 199400 MIN 61580 (*) +49710
WTR YR 2004 MAX 139800 MIN 109600 (*) +2600

(*) Changes in contents, in acre-feet