

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

Salt Basin
Lower Salt Subbasin

LOCATION.--Lat 33°35'00", long 111°20'00" referenced to North American Datum of 1927, Maricopa County, AZ, Hydrologic Unit 15060106, This system comprises four storage reservoirs created by four separate dams on Salt River: 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 mi², at Stewart Mountain Dam.

SURFACE-WATER RECORDS

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.

GAGE.--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.

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

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents of system, 2,022,000 acre-ft Mar. 8 - 12, 2009; minimum contents of system, 20,680 acre-ft Sept. 16, 1940.

EXTREMES FOR CURRENT YEAR.-- Maximum contents of system, 1,253,000 acre-ft, May 8, 10, 12 - 13, 15 - 16 ; minimum contents of system, 1,032,000 acre-ft, Jan. 19, 23.

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**RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 0800 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	1,115,000	1,064,000	1,047,000	1,035,000	1,095,000	1,120,000	1,222,000	1,251,000	1,233,000	1,161,000	1,111,000	1,080,000	
2	1,113,000	1,062,000	1,047,000	1,035,000	1,098,000	1,119,000	1,224,000	1,251,000	1,230,000	1,157,000	1,111,000	1,080,000	
3	1,112,000	1,061,000	1,047,000	1,035,000	1,100,000	1,120,000	1,225,000	1,250,000	1,228,000	1,154,000	1,108,000	1,080,000	
4	1,109,000	1,060,000	1,046,000	1,034,000	1,102,000	1,120,000	1,226,000	1,251,000	1,226,000	1,152,000	1,108,000	1,080,000	
5	1,108,000	1,059,000	1,045,000	1,035,000	1,103,000	1,120,000	1,228,000	1,251,000	1,224,000	1,149,000	1,106,000	1,079,000	
6	1,105,000	1,058,000	1,045,000	1,034,000	1,105,000	1,121,000	1,229,000	1,251,000	1,222,000	1,147,000	1,106,000	1,078,000	
7	1,103,000	1,057,000	1,044,000	1,034,000	1,106,000	1,121,000	1,230,000	1,252,000	1,219,000	1,145,000	1,105,000	1,078,000	
8	1,101,000	1,057,000	1,044,000	1,034,000	1,107,000	1,122,000	1,231,000	1,253,000	1,218,000	1,143,000	1,103,000	1,077,000	
9	1,100,000	1,055,000	1,043,000	1,035,000	1,108,000	1,133,000	1,233,000	1,252,000	1,216,000	1,140,000	1,102,000	1,078,000	
10	1,099,000	1,055,000	1,043,000	1,034,000	1,109,000	1,143,000	1,234,000	1,253,000	1,213,000	1,137,000	1,100,000	1,080,000	
11	1,096,000	1,055,000	1,042,000	1,034,000	1,110,000	1,150,000	1,234,000	1,252,000	1,210,000	1,134,000	1,099,000	1,082,000	
12	1,095,000	1,054,000	1,041,000	1,034,000	1,112,000	1,157,000	1,235,000	1,253,000	1,208,000	1,134,000	1,097,000	1,084,000	
13	1,094,000	1,053,000	1,040,000	1,034,000	1,113,000	1,163,000	1,236,000	1,253,000	1,206,000	1,131,000	1,095,000	1,088,000	
14	1,092,000	1,052,000	1,041,000	1,034,000	1,114,000	1,169,000	1,238,000	1,252,000	1,204,000	1,129,000	1,094,000	1,089,000	
15	1,090,000	1,051,000	1,042,000	1,034,000	1,114,000	1,173,000	1,239,000	1,253,000	1,202,000	1,128,000	1,092,000	1,093,000	
16	1,088,000	1,051,000	1,042,000	1,033,000	1,114,000	1,178,000	1,240,000	1,253,000	1,199,000	1,125,000	1,091,000	1,095,000	
17	1,087,000	1,050,000	1,042,000	1,033,000	1,115,000	1,183,000	1,241,000	1,252,000	1,197,000	1,124,000	1,089,000	1,098,000	
18	1,085,000	1,050,000	1,041,000	1,033,000	1,115,000	1,187,000	1,241,000	1,251,000	1,194,000	1,122,000	1,088,000	1,100,000	
19	1,083,000	1,050,000	1,040,000	1,032,000	1,115,000	1,191,000	1,242,000	1,250,000	1,192,000	1,119,000	1,087,000	1,101,000	
20	1,081,000	1,049,000	1,041,000	1,033,000	1,116,000	1,194,000	1,243,000	1,249,000	1,189,000	1,117,000	1,086,000	1,101,000	
21	1,080,000	1,049,000	1,041,000	1,033,000	1,117,000	1,198,000	1,244,000	1,248,000	1,186,000	1,117,000	1,084,000	1,101,000	
22	1,079,000	1,048,000	1,040,000	1,033,000	1,118,000	1,201,000	1,245,000	1,247,000	1,183,000	1,117,000	1,083,000	1,102,000	
23	1,078,000	1,048,000	1,039,000	1,032,000	1,118,000	1,203,000	1,246,000	1,247,000	1,181,000	1,115,000	1,083,000	1,102,000	
24	1,077,000	1,048,000	1,039,000	1,033,000	1,119,000	1,206,000	1,247,000	1,245,000	1,178,000	1,115,000	1,081,000	1,102,000	
25	1,074,000	1,048,000	1,038,000	1,033,000	1,119,000	1,210,000	1,248,000	1,244,000	1,176,000	1,114,000	1,081,000	1,103,000	
26	1,073,000	1,047,000	1,038,000	1,034,000	1,119,000	1,211,000	1,248,000	1,242,000	1,173,000	1,113,000	1,080,000	1,103,000	
27	1,071,000	1,048,000	1,038,000	1,038,000	1,119,000	1,213,000	1,248,000	1,240,000	1,171,000	1,113,000	1,079,000	1,103,000	
28	1,070,000	1,048,000	1,037,000	1,050,000	1,119,000	1,215,000	1,249,000	1,240,000	1,168,000	1,113,000	1,079,000	1,103,000	
29	1,068,000	1,048,000	1,036,000	1,073,000		---	1,217,000	1,250,000	1,239,000	1,165,000	1,113,000	1,079,000	1,102,000
30	1,066,000	1,047,000	1,035,000	1,085,000		---	1,218,000	1,250,000	1,237,000	1,163,000	1,113,000	1,078,000	1,101,000
31	1,065,000		---	1,035,000	1,091,000		---	1,221,000		---	1,112,000	1,079,000	---
Max	1,115,000	1,064,000	1,047,000	1,091,000	1,119,000	1,221,000	1,250,000	1,253,000	1,233,000	1,161,000	1,111,000	1,103,000	
Min	1,065,000	1,047,000	1,035,000	1,032,000	1,095,000	1,119,000	1,222,000	1,235,000	1,163,000	1,112,000	1,078,000	1,077,000	

	Calendar Year 2012	Water Year 2013
Max	1,462,000	1,253,000
Min	1,035,000	1,032,000

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