

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

Verde Basin  
Lower Verde Subbasin

LOCATION.--Lat 33°49'05", long 111°37'52" referenced to North American Datum of 1927, Maricopa County, AZ, Hydrologic Unit 15060203, This system comprises two storage reservoirs created by Horseshoe and Bartlett Dams on Verde River, Maricopa and Yavapai Counties.. 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<sup>2</sup>, at Bartlett Dam, of which 365 mi<sup>2</sup> is non-contributing, including 357 mi<sup>2</sup> in Aubrey Valley Playa, a closed basin.

**SURFACE-WATER RECORDS**

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.

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

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.

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: 231,500 acre-feet; March 21. minimum contents of system: 89,560 acre-feet; October 8.

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**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	89,840	91,320	91,140	101,800	170,500	189,500	224,800	201,200	182,300	173,000	177,300	178,300
2	89,800	91,420	91,290	102,100	172,000	190,000	223,900	200,100	182,100	172,800	177,700	179,800
3	89,730	91,550	91,600	102,400	173,200	190,300	223,200	198,800	182,300	172,600	178,000	180,300
4	89,730	91,650	91,750	102,700	174,400	190,700	222,400	197,500	181,800	172,500	178,300	180,500
5	89,670	91,780	92,040	103,000	175,500	191,300	221,400	196,500	181,400	172,400	178,300	180,600
6	89,640	91,890	92,190	103,300	176,400	192,200	220,400	195,500	181,000	172,300	178,200	180,500
7	89,620	92,000	92,470	103,600	177,200	193,100	219,700	194,500	180,600	172,300	178,300	180,400
8	89,560	92,070	92,710	103,900	178,000	195,500	219,000	193,800	180,100	172,200	178,200	180,300
9	89,590	92,250	92,840	104,200	178,700	200,700	218,400	193,000	179,700	171,700	178,200	180,700
10	89,610	92,280	93,090	104,500	179,300	204,100	217,700	192,200	179,200	171,600	178,100	181,700
11	89,710	92,320	93,300	104,800	179,900	207,700	216,700	191,400	178,600	171,500	178,200	182,600
12	89,760	92,430	93,420	105,000	180,500	212,100	216,000	190,600	178,000	171,300	178,100	183,800
13	89,760	92,570	93,700	105,300	181,000	217,200	215,300	189,800	177,500	171,200	177,700	185,200
14	89,820	92,710	94,340	105,500	181,400	221,600	214,500	188,600	176,900	171,500	177,500	186,000
15	89,960	92,870	94,910	105,800	181,900	225,200	213,800	187,700	176,300	171,600	177,300	186,400
16	90,040	93,010	95,580	106,000	182,400	227,700	213,100	187,200	175,800	171,700	177,000	186,600
17	90,160	93,080	96,340	106,300	182,700	229,600	212,200	186,800	175,500	171,800	176,600	186,800
18	90,220	93,150	96,800	106,500	183,400	230,600	211,700	186,400	175,300	171,900	176,500	186,900
19	90,320	93,120	97,340	106,800	183,900	231,000	210,900	185,900	175,100	172,000	176,200	186,800
20	90,370	92,970	97,870	107,100	184,900	231,200	210,200	185,600	174,900	172,400	175,900	186,600
21	90,450	92,930	98,290	107,400	185,500	231,500	209,600	185,200	174,800	173,300	175,400	186,500
22	90,570	92,940	98,600	107,700	186,100	231,300	209,100	184,800	174,700	173,800	175,200	186,200
23	90,660	92,970	98,810	108,000	186,600	231,000	208,400	184,600	174,400	174,200	175,000	185,800
24	90,730	92,670	99,380	108,300	187,200	230,600	207,700	184,400	174,100	174,300	174,700	185,600
25	90,760	92,460	99,720	108,600	187,600	230,000	206,700	184,200	173,900	174,700	174,500	185,200
26	90,830	91,920	99,990	109,600	188,200	229,400	205,700	184,000	173,800	175,000	174,400	184,800
27	90,830	91,400	100,300	117,800	188,600	228,700	204,800	183,800	173,600	175,300	174,500	184,400
28	90,950	91,070	100,600	143,200	189,000	228,000	203,800	183,600	173,500	175,800	174,500	184,100
29	91,010	91,100	100,800	161,300	---	227,200	203,100	183,000	173,300	176,200	174,700	183,700
30	91,130	91,060	101,100	165,900	---	226,400	202,100	182,800	173,200	176,500	175,000	183,400
31	91,240	---	101,400	168,600	---	225,600	---	182,500	---	176,800	175,900	---
<b>Max</b>	91,240	93,150	101,400	168,600	189,000	231,500	224,800	201,200	182,300	176,800	178,300	186,900
<b>Min</b>	89,560	91,060	91,140	101,800	170,500	189,500	202,100	182,500	173,200	171,200	174,400	178,300

	Calendar Year 2012	Water Year 2013
<b>Max</b>	101,400	231,500
<b>Min</b>	62,850	89,560

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