

Water-Data Report 2011

**09511300 VERDE RIVER NEAR SCOTTSDALE, AZ**

Verde Basin  
Lower Verde Subbasin

LOCATION.--Lat 33°33'31", long 111°40'07" referenced to North American Datum of 1927, in NW ¼ NE ¼ SE ¼ sec.31, T.3 N., R.7 E., Maricopa County, AZ, Hydrologic Unit 15060203, in Salt River Indian Reservation, on right bank, 0.75 mi north of city of Phoenix water-treatment plant, 1 mi upstream from mouth, 1.7 mi downstream from State Highway 87, and 16 mi northeast of Scottsdale.

DRAINAGE AREA.--6,615 mi<sup>2</sup>, of which 365 mi<sup>2</sup> probably is noncontributing, including 357 mi<sup>2</sup> in aubrey valley playa, a closed basin.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Feb. 1961 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 1,320.31 ft above sea level. Prior to Oct. 1, 1980, and Jan. 4 to Oct. 3, 1988, at site 1.7 mi upstream on State Highway 87 bridge at datum 31.04 ft higher. Oct. 1, 1980, to Jan. 3, 1988, at Verde Plant intake structure 0.1 mi upstream at same datum.

REMARKS.--Records good. Flow regulated by Bartlett and Horseshoe Reservoirs (see sta 09509500) except during periods of spill or floodflow below Bartlett Dam. About 12,500 acres above reservoirs are irrigated by surface water and ground water. Below reservoirs water is diverted for municipal supply for the city of Phoenix, and for irrigation of an undetermined acreage in Fort McDowell Indian Reservation. Remainder (except during infrequent period of extreme flooding) is diverted at Granite Reef Dam on Salt River, 6 mi downstream, for irrigation in Salt River Valley and for municipal use by the city of Phoenix.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--50 years, 602 ft<sup>3</sup>/s, 436,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127,000 ft<sup>3</sup>/s Jan. 8, 1993, from slope-area measurement of peak flow, gage height, 25.37 ft recorded; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft<sup>3</sup>/s, Apr. 21, 27, gage height, 3.92 ft; minimum discharge, 83 ft<sup>3</sup>/s, Sept. 8, gage height, 0.64 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	189	154	424	277	409	550	1,050	1,150	104	104	133	100
2	190	290	453	295	398	586	1,060	889	104	109	130	101
3	188	621	478	324	424	591	1,060	495	101	112	123	103
4	204	870	491	335	381	622	1,050	247	99	128	109	102
5	219	994	498	318	333	638	1,110	180	98	115	108	101
6	225	949	463	264	391	594	1,080	161	96	116	102	101
7	243	924	455	237	524	590	996	155	99	117	102	99
8	239	929	439	266	625	616	1,090	150	126	109	102	90
9	219	955	456	279	670	630	1,020	141	123	106	98	95
10	214	892	515	279	660	661	919	135	119	106	97	100
11	209	884	548	283	609	734	918	132	117	108	96	102
12	204	920	567	289	512	740	1,040	145	117	108	94	102
13	145	900	581	296	517	776	1,150	151	117	106	100	101
14	132	771	545	299	604	806	1,180	148	118	103	99	101
15	125	687	497	300	679	793	1,190	149	114	102	97	101
16	126	714	427	312	724	821	1,150	151	110	100	96	100
17	127	821	390	319	735	774	1,100	138	109	100	95	100
18	127	783	339	368	812	756	1,180	137	111	99	96	101
19	127	520	358	440	715	767	1,270	137	107	101	99	99
20	126	404	453	478	605	771	1,330	134	108	100	94	99
21	130	336	569	480	535	781	1,300	135	108	99	94	98
22	132	318	510	465	569	743	1,340	132	101	107	96	97
23	130	318	387	332	657	735	1,300	125	103	119	96	97
24	129	322	268	267	681	749	1,150	119	103	123	95	98
25	128	319	210	264	670	776	1,120	117	103	141	97	96
26	130	370	231	350	541	885	1,240	117	103	130	104	97
27	129	414	333	381	526	879	1,330	113	102	128	99	96
28	125	433	377	400	514	882	1,250	116	103	130	95	95
29	132	422	328	405	---	891	1,300	117	100	132	93	95
30	143	414	301	394	---	927	1,360	112	102	138	95	91
31	144	---	245	427	---	1,020	---	107	---	137	100	---
<b>Total</b>	5,030	18,648	13,136	10,423	16,020	23,084	34,633	6,435	3,225	3,533	3,134	2,958
<b>Mean</b>	162	622	424	336	572	745	1,154	208	108	114	101	98.6
<b>Max</b>	243	994	581	480	812	1,020	1,360	1,150	126	141	133	103
<b>Min</b>	125	154	210	237	333	550	918	107	96	99	93	90
<b>Ac-ft</b>	9,980	36,990	26,060	20,670	31,780	45,790	68,690	12,760	6,400	7,010	6,220	5,870

	Calendar Year 2010	Water Year 2011
<b>Total</b>	269,892	140,259
<b>Mean</b>	739	384
<b>Max</b>	10,700	1,360
<b>Min</b>	82	90
<b>Ac-ft</b>	535,300	278,200

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