

Water-Data Report 2011

**09507980 EAST VERDE RIVER NEAR CHILDS, AZ**

Verde Basin  
Lower Verde Subbasin

LOCATION.--Lat 34°16'35", long 111°38'17" referenced to North American Datum of 1927, in sec.21, T.11 N., R.7 E., Gila County, AZ, Hydrologic Unit 15060203, in Tonto National Forest, on left bank 1.6 mi upstream from mouth and 6 mi southeast of Childs.(unsurveyed).

DRAINAGE AREA.--331 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Sept. 1961 to Dec. 1965 and May 1967 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,500 ft above sea level, from topographic map. Sept. 1, 1961, to Dec. 15, 1965, at site 1 mi upstream at elevation of 2,600 ft above sea level, datum raised 0.38 ft Oct. 4, 1963. May 25, 1967, to July 20, 1972, at present site at datum 3.29 ft higher, datum lowered 2.00 ft Jan. 7, 1993.

REMARKS.--Records fair except for estimated records, which are poor. Since Sept. 30, 1965, records include trans-basin diversions from East Clear Creek to headwaters of East Verde River. (See sta 09507580 and 09398300.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft<sup>3</sup>/s, Sept. 5, 1970, gage height, 22.5 ft, present datum, from profile past gage, from rating curve extended above 960 ft<sup>3</sup>/s, on basis of slope-area measurements at gage heights 12.11 and 22.5 ft, present datum; minimum, no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft<sup>3</sup>/s, Dec 30, gage height, 10.58 ft; minimum daily discharge, 0.29 ft<sup>3</sup>/s, June 27.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	3.7	6.5	24	11	54	11	19	20	0.55	7.1	3.3
2	1.1	3.6	6.2	19	9.9	39	10	20	20	0.42	5.1	3.0
3	1.4	3.4	6.1	17	9.2	31	9.6	21	20	0.36	4.6	2.9
4	1.4	3.3	6.1	16	9.1	30	9.1	22	20	4.9	4.6	2.4
5	3.3	3.3	6.1	15	9.3	31	9.1	22	19	9.4	4.5	1.5
6	29	3.2	5.9	15	10	27	8.7	22	19	11	4.2	1.5
7	18	3.3	5.7	16	10	25	9.1	22	19	15	3.4	1.4
8	12	3.4	5.6	16	10	23	8.7	22	18	19	2.3	0.90
9	8.0	3.5	5.7	17	9.1	21	11	22	18	21	1.5	0.81
10	6.2	3.6	5.8	18	8.4	19	11	23	18	15	0.91	0.77
11	5.1	3.9	5.8	17	7.9	18	11	23	17	31	0.65	0.91
12	4.6	4.1	5.8	16	7.9	17	11	23	18	56	0.53	2.6
13	4.0	4.4	5.8	15	8.4	17	9.7	22	18	21	0.47	2.9
14	3.5	4.6	5.8	16	8.5	16	9.3	22	17	12	0.42	1.7
15	3.3	4.8	5.8	17	8.6	15	9.0	21	14	16	1.6	1.7
16	3.0	4.7	7.0	17	8.4	14	8.6	21	8.3	17	3.0	1.6
17	2.6	4.8	8.5	17	7.9	13	8.0	22	5.7	18	3.8	2.0
18	2.6	4.7	8.1	18	7.7	13	7.4	23	4.1	16	4.6	1.5
19	2.6	4.5	8.4	19	16	13	7.2	27	2.7	19	4.5	1.2
20	2.5	4.7	8.3	17	80	13	6.9	27	1.7	16	4.3	0.88
21	e3.3	5.5	8.4	15	99	15	6.8	26	1.2	14	8.9	0.72
22	e3.5	6.2	10	14	105	17	6.5	24	0.86	16	7.5	0.64
23	e3.9	5.5	19	14	96	17	6.3	23	0.59	13	5.8	0.59
24	e4.0	5.7	23	14	58	17	6.2	22	0.45	12	5.2	0.58
25	e4.2	5.8	22	13	39	15	6.0	22	0.38	12	4.8	0.81
26	4.5	5.6	18	12	31	14	5.7	22	0.33	12	4.9	4.1
27	4.5	5.8	15	11	34	13	5.3	21	0.29	12	4.5	5.1
28	4.1	5.8	14	10	34	12	5.1	21	3.0	10	4.5	6.1
29	3.9	5.8	16	10	---	12	7.4	20	1.8	12	4.3	7.0
30	3.7	6.0	95	11	---	11	16	20	0.97	13	4.2	7.5
31	3.9	---	36	11	---	11	---	20	---	12	3.9	---
<b>Total</b>	158.9	137.2	405.4	477	753.3	603	256.7	687	307.37	456.63	120.58	68.61
<b>Mean</b>	5.13	4.57	13.1	15.4	26.9	19.5	8.56	22.2	10.2	14.7	3.89	2.29
<b>Max</b>	29	6.2	95	24	105	54	16	27	20	56	8.9	7.5
<b>Min</b>	1.1	3.2	5.6	10	7.7	11	5.1	19	0.29	0.36	0.42	0.58
<b>Ac-ft</b>	315	272	804	946	1,490	1,200	509	1,360	610	906	239	136
<b>Cfsm</b>	0.02	0.01	0.04	0.05	0.08	0.06	0.03	0.07	0.03	0.04	0.01	0.01
<b>In.</b>	0.02	0.02	0.05	0.05	0.08	0.07	0.03	0.08	0.03	0.05	0.01	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	24.9	29.4	72.0	138	161	162	71.8	24.0	14.5	19.1	35.6	27.2
<b>Max</b>	308	157	803	1,819	1,147	968	421	115	48.8	60.9	231	282
<b>(WY)</b>	(1973)	(1979)	(2008)	(1993)	(1980)	(1978)	(1998)	(1973)	(1980)	(1999)	(2007)	(1970)
<b>Min</b>	0.37	0.83	1.42	2.25	3.69	4.15	2.51	0.37	0.00	0.00	0.00	0.73
<b>(WY)</b>	(2003)	(1963)	(1963)	(1963)	(1964)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(1972)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1961 - 2011	
<b>Annual total</b>	33,950.93		4,431.69		64.7	
<b>Annual mean</b>	93.0		12.1		64.7	
<b>Highest annual mean</b>					290	1993
<b>Lowest annual mean</b>					3.98	2002
<b>Highest daily mean</b>	5,630	Jan 22	105	Feb 22	11,000	Jan 8, 1993
<b>Lowest daily mean</b>	0.59	Sep 20	0.29	Jun 27	0.00	Jun 11, 1996
<b>Annual seven-day minimum</b>	0.76	Sep 15	0.59	Jun 21	0.00	Jun 18, 1996
<b>Annual runoff (ac-ft)</b>	67,340		8,790		46,840	
<b>Annual runoff (cfsm)</b>	0.281		0.037		0.195	
<b>Annual runoff (inches)</b>	3.82		0.50		2.65	
<b>10 percent exceeds</b>	150		22		96	
<b>50 percent exceeds</b>	18		8.7		19	
<b>90 percent exceeds</b>	2.9		1.6		1.2	

