



Water-Data Report 2008

09505400 BEAVER CREEK NEAR LAKE MONTEZUMA, AZ

Verde Basin
Upper Verde Subbasin

LOCATION.--Lat 34°36'54", long 111°50'14" referenced to North American Datum of 1983, Yavapai County, AZ, Hydrologic Unit 15060202, in Montezuma Castle National Monument, 6 miles upstream of mouth and 1.5 miles downstream of Lake Montezuma.

DRAINAGE AREA.--426 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 25, 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,000 ft above mean sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several known diversions and some regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s Dec. 29, 2004, gage-height, 17.91 ft; minimum daily discharge, 0.06 ft³/s July 16, 2007.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	1800	3,900	9.74
Dec 8	0400	10,600	13.88
Jan 6	1330	3,740	9.64
Jan 27	2330	*15,000	*15.79

Minimum daily discharge, 0.16 ft³/s, July 17, 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.5	6.3	e676	15	190	e972	81	4.4	2.5	0.41	0.29	11
2	2.3	5.5	375	15	168	e1,090	57	4.1	2.3	0.37	0.28	4.1
3	2.7	5.4	68	15	141	484	43	4.2	2.5	0.33	0.34	2.9
4	4.4	5.3	34	15	228	337	33	3.7	2.3	0.37	0.42	2.2
5	7.7	5.8	24	15	183	337	27	3.4	1.9	0.38	0.36	1.8
6	4.0	5.9	19	e1,440	117	312	22	3.4	1.7	0.32	0.32	1.7
7	3.8	6.6	339	e1,740	97	242	18	5.3	1.6	0.30	0.31	1.4
8	4.0	6.8	e4,240	442	130	260	16	4.6	1.4	0.27	0.35	1.5
9	3.7	5.8	425	232	234	341	13	3.9	1.3	0.23	0.36	1.9
10	3.7	5.9	134	211	384	405	13	4.1	1.2	0.22	0.35	1.9
11	3.8	5.9	111	145	497	451	11	4.1	1.2	0.28	0.33	4.2
12	3.7	5.9	122	131	551	576	11	3.6	1.2	0.26	0.33	2.8
13	3.7	6.0	68	109	e659	e668	10	5.4	1.2	0.24	0.29	2.3
14	3.6	6.1	50	87	e708	e715	9.9	6.6	1.1	0.24	0.30	2.1
15	4.1	5.8	39	66	405	e607	9.3	5.3	1.1	0.22	8.0	1.9
16	4.5	5.7	29	52	236	375	8.8	4.8	1.0	0.19	20	1.9
17	5.0	5.6	24	43	377	198	8.6	4.6	0.99	0.16	3.6	1.5
18	5.3	5.6	21	33	495	131	9.9	3.9	0.95	0.16	12	1.2
19	5.2	5.6	20	30	447	117	10	3.6	0.94	0.17	3.0	1.1
20	4.8	5.6	19	26	552	162	9.8	3.6	0.90	0.32	2.0	1.2
21	4.2	5.8	17	24	510	329	8.2	3.1	0.86	0.38	1.3	1.1
22	4.1	6.1	17	22	463	391	7.9	3.6	0.78	0.29	0.85	1.1
23	4.6	6.3	16	21	529	355	7.3	5.1	0.76	0.27	0.79	1.1
24	4.6	6.3	16	20	551	278	6.7	7.6	0.72	0.26	0.80	1.3
25	4.6	6.6	16	20	341	294	6.2	6.6	0.71	0.35	39	1.5
26	4.5	6.9	16	19	506	314	5.7	5.2	0.62	0.46	16	1.8
27	4.5	7.5	16	e1,700	504	301	5.0	4.5	0.60	0.49	3.4	1.6
28	4.9	7.9	16	e5,060	e682	252	5.1	4.0	0.55	0.40	1.8	1.2
29	5.1	7.8	16	e1,120	e845	192	5.0	3.7	0.49	0.36	2.2	0.94
30	5.3	8.3	15	e622	---	143	5.0	3.6	0.44	0.34	4.1	1.0
31	5.5	---	15	278	---	113	---	3.2	---	0.31	1.9	---
Total	133.4	186.6	7,013	13,768	11,730	11,742	483.4	136.8	35.81	9.35	125.37	63.24
Mean	4.30	6.22	226	444	404	379	16.1	4.41	1.19	0.30	4.04	2.11
Max	7.7	8.3	4,240	5,060	845	1,090	81	7.6	2.5	0.49	39	11
Min	1.5	5.3	15	15	97	113	5.0	3.1	0.44	0.16	0.28	0.94
Med	4.4	5.9	24	52	447	329	9.9	4.1	1.1	0.30	0.80	1.7
Ac-ft	265	370	13,910	27,310	23,270	23,290	959	271	71	19	249	125

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.50	31.6	131	231	273	148	22.8	5.66	1.13	5.66	20.3	6.21
Max	16.0	105	279	460	657	379	60.9	12.5	1.48	16.7	42.9	15.3
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2008)	(2005)	(2005)	(2005)	(2007)	(2005)	(2004)
Min	3.83	6.22	9.02	10.1	9.27	7.90	7.11	2.77	0.64	0.30	4.04	2.11
(WY)	(2006)	(2008)	(2007)	(2006)	(2006)	(2006)	(2007)	(2007)	(2006)	(2008)	(2008)	(2008)

09505400 BEAVER CREEK NEAR LAKE MONTEZUMA, AZ—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 2004 - 2008	
Annual total	10,040.62	45,426.97		
Annual mean	27.5	124	72.6	
Highest annual mean			149	2005
Lowest annual mean			8.08	2006
Highest daily mean	4,240	Dec 8	5,060	Jan 28
Lowest daily mean	0.06	Jul 16	0.16	Jul 17
Annual seven-day minimum	0.07	Jul 13	0.20	Jul 13
Annual runoff (ac-ft)	19,920		90,100	52,610
10 percent exceeds	24		386	164
50 percent exceeds	5.9		5.6	7.2
90 percent exceeds	1.2		0.37	0.71

