

Water-Data Report 2008

**09404115 HAVASU CREEK ABOVE THE MOUTH, NEAR SUPAI, AZ**

Lower Colorado-Lake Mead Basin  
Grand Canyon Subbasin

LOCATION.--Lat 36°18'21", long 112°45'38" referenced to North American Datum of 1927, in sec.31, T.34 N., R.4 W., Coconino County, AZ, Hydrologic Unit 15010002, in Grand Canyon National Park, 8.0 mi downstream from Supai, 69 mi downstream from Phantom Ranch, 173 mi downstream from Glen Canyon Dam, and 199 mi upstream from Hoover Dam. (unsurveyed).

DRAINAGE AREA.--3,020 mi<sup>2</sup>, including 209 mi<sup>2</sup> which are non-contributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Nov. 1990 to Sept. 1997, June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,793.81 ft above sea level.

REMARKS.--Records good, except for estimated daily discharges greater than 100 ft<sup>3</sup>/s, which are poor. Several diversions and small impoundments upstream for irrigation and public supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft<sup>3</sup>/s Feb. 20, 1993 gage height, 25.22 ft, from flood mark, minimum daily 63 ft<sup>3</sup>/s on many days in 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge unknown, Jan. 2, 1910, flood wave reported as about 20 ft high through Supai Village. Sept. 3, 1990, 26.3 ft, 20,300 ft<sup>3</sup>/s, based on slope-area computation, flood wave through Supai Village reported as about 14 ft for this event. Minimum discharge unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft<sup>3</sup>/s, Aug. 17, gage height, 12.24 ft; minimum daily discharge, 69 ft<sup>3</sup>/s, on several days.

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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	70	72	92	71	e73	76	74	73	72	71	73	90
2	70	72	73	71	75	75	74	73	71	71	72	83
3	70	72	72	71	76	75	73	72	72	71	73	82
4	69	72	72	72	76	75	73	72	73	71	73	81
5	69	72	73	75	74	75	73	72	73	72	74	81
6	69	72	73	86	74	75	73	73	72	73	74	80
7	69	72	74	90	74	75	73	73	72	73	74	80
8	69	72	74	73	75	75	73	73	72	72	103	79
9	69	72	73	73	75	75	73	72	72	72	83	79
10	69	72	73	73	75	75	73	72	72	72	77	79
11	69	73	73	72	75	75	73	72	71	72	76	79
12	69	73	73	72	75	76	73	73	71	73	76	79
13	69	73	73	72	76	76	73	74	71	73	76	78
14	70	73	72	72	76	75	73	73	71	75	74	77
15	70	73	72	72	75	75	73	73	71	78	73	77
16	70	72	72	72	75	76	73	72	70	75	122	77
17	70	72	72	72	75	75	73	72	70	73	669	77
18	70	72	72	72	75	75	72	72	70	73	686	78
19	70	72	72	72	75	74	72	72	71	72	274	78
20	70	72	72	72	76	74	72	71	71	73	96	78
21	69	72	72	72	76	74	72	72	71	73	88	78
22	69	72	72	72	77	74	72	73	70	73	85	78
23	70	72	72	74	77	74	72	75	71	73	82	79
24	70	72	72	75	76	74	72	74	70	72	81	79
25	71	72	72	73	75	74	72	73	70	72	82	80
26	71	72	72	e73	75	74	72	73	70	73	82	80
27	71	72	72	e73	75	74	72	72	71	78	82	80
28	71	72	71	e73	76	74	72	72	71	75	81	77
29	71	72	71	e73	76	74	73	71	71	73	81	77
30	71	73	71	e73	---	74	73	71	71	73	82	76
31	71	---	71	e73	---	74	---	72	---	73	168	---
<b>Total</b>	2,165	2,166	2,260	2,279	2,183	2,316	2,181	2,247	2,134	2,263	3,992	2,376
<b>Mean</b>	69.8	72.2	72.9	73.5	75.3	74.7	72.7	72.5	71.1	73.0	129	79.2
<b>Max</b>	71	73	92	90	77	76	74	75	73	78	686	90
<b>Min</b>	69	72	71	71	73	74	72	71	70	71	72	76
<b>Ac-ft</b>	4,290	4,300	4,480	4,520	4,330	4,590	4,330	4,460	4,230	4,490	7,920	4,710

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	72.6	71.6	71.9	77.4	79.9	73.5	70.9	71.7	71.2	77.3	84.6	76.3
<b>Max</b>	77.6	79.0	77.8	129	180	80.4	77.5	83.1	76.4	99.6	129	87.7
<b>(WY)</b>	(2005)	(2005)	(2006)	(2005)	(2005)	(2005)	(2005)	(1992)	(1994)	(2006)	(2008)	(1992)
<b>Min</b>	68.9	66.6	67.7	67.4	67.1	68.1	65.2	65.4	65.5	66.6	67.3	67.6
<b>(WY)</b>	(2003)	(1998)	(1993)	(2002)	(2002)	(1997)	(1995)	(1993)	(1993)	(1993)	(1994)	(2000)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1991 - 2008	
<b>Annual total</b>	26,931		28,562			
<b>Annual mean</b>	73.8		78.0		75.3	
<b>Highest annual mean</b>					89.2	2005
<b>Lowest annual mean</b>					69.5	2002
<b>Highest daily mean</b>	257	Jul 28	686	Aug 18	892	Feb 14, 2005
<b>Lowest daily mean</b>	68	Sep 17	69	Oct 4	15	Aug 11, 1991
<b>Annual seven-day minimum</b>	69	Sep 13	69	Oct 4	17	Aug 6, 1991
<b>Annual runoff (ac-ft)</b>	53,420		56,650		54,540	
<b>10 percent exceeds</b>	74		79		77	
<b>50 percent exceeds</b>	73		73		72	
<b>90 percent exceeds</b>	70		71		68	

