



Water-Data Report 2009

**07358257 HOT SPRINGS CREEK UPSTREAM OF TUNNEL ENTRANCE AT GLADE STREET AT HOT SPRINGS, AR**

Upper Ouachita Basin  
Ouachita Headwaters Subbasin

LOCATION.--Lat 34°31'24.7", long 93°03'16.0" referenced to North American Datum of 1983, in SW ¼ SW ¼ sec.28, T.2 S., R.19 W., Garland County, AR, Hydrologic Unit 08040101, and on Hot Springs Creek upstream of tunnel entrance on Glade Street.

DRAINAGE AREA.--undetermined.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Jul 2008 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Water-discharge records poor, including estimated daily discharges. On Jul 17, 2009, gage was lowered to accommodate low flow. Where the "<" symbol appears, the actual value is known to be less than the value shown. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, undetermined, May 6, gage height, 5.81 ft; minimum discharge, <1.0 ft<sup>3</sup>/s, occurred on many days.

## 07358257 HOT SPRINGS CREEK UPSTREAM OF TUNNEL ENTRANCE AT GLADE STREET AT HOT SPRINGS, AR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**  
[e, estimated; <, less than]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	<1.0	<1.0	<1.0	<1.0	e1.0	<1.0	<1.0	2.1	<1.0	e1.0	7.4	0.65
2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e12	5.8	<1.0	e1.0	2.2	0.65
3	e1.0	<1.0	e1.1	<1.0	<1.0	<1.0	e5.7	16	e1.0	e1.0	1.4	0.65
4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	e1.0	e1.0	1.0	0.65
5	<1.0	<1.0	<1.0	e1.0	<1.0	<1.0	<1.0	4.3	<1.0	e2.1	1.6	1.1
6	6.5	e1.3	<1.0	<1.0	<1.0	<1.0	<1.0	e42	<1.0	<1.0	1.5	1.9
7	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e4.3	<1.0	<1.0	1.4	1.5
8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.0
9	<1.0	<1.0	<1.0	<1.0	e1.0	<1.0	<1.0	e9.0	<1.0	e1.0	1.4	1.2
10	<1.0	<1.0	<1.0	<1.0	e2.1	<1.0	<1.0	34	<1.0	<1.0	1.3	1.2
11	<1.0	e1.0	<1.0	<1.0	13	e1.2	<1.0	7.0	<1.0	<1.0	0.77	0.77
12	<1.0	<1.0	<1.0	<1.0	e1.3	1.9	e12	6.1	e1.0	<1.0	0.75	1.3
13	<1.0	<1.0	<1.0	<1.0	<1.0	e1.0	4.5	3.8	e1.0	<1.0	0.80	3.0
14	<1.0	<1.0	<1.0	<1.0	<1.0	e1.0	e1.0	10	e1.0	e1.0	0.77	e0.90
15	e1.0	<1.0	e1.0	<1.0	<1.0	<1.0	<1.0	e3.6	e1.0	e1.0	0.77	e8.0
16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e4.2	e1.0	e1.0	0.75	17
17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e1.0	e1.8	0.88	3.0
18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e3.6	<1.0	e1.0	2.6	1.5	1.6
19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e2.6	<1.0	e1.0	2.4	1.4	1.1
20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e1.0	2.3	1.9	0.98
21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e1.0	5.7	0.77	0.96
22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e1.9	1.1	0.77	2.7
23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	e3.1	0.67	0.72	1.5
24	<1.0	e3.5	<1.0	<1.0	<1.0	e3.5	<1.0	e17	e1.0	0.60	0.71	1.1
25	<1.0	<1.0	<1.0	<1.0	<1.0	e1.7	<1.0	8.3	e1.0	0.59	0.69	0.98
26	<1.0	<1.0	<1.0	<1.0	e1.0	e1.1	<1.0	3.4	e1.0	1.7	0.69	0.90
27	<1.0	<1.0	e2.4	e1.0	e1.0	9.7	e1.0	<1.0	e1.0	0.97	0.68	0.95
28	<1.0	<1.0	e1.0	e1.0	e1.0	e2.6	e1.0	<1.0	e1.0	14	0.65	0.86
29	<1.0	<1.0	<1.0	<1.0	---	<1.0	e4.2	<1.0	e1.0	2.1	0.65	0.85
30	<1.0	<1.0	<1.0	<1.0	---	<1.0	e1.0	<1.0	e1.0	4.5	0.65	0.90
31	<1.0	---	<1.0	<1.0	---	e1.1	---	<1.0	---	2.4	0.65	---
<b>Total</b>	41.3	32.8	32.5	31.0	41.4	45.8	67.6	199.8	33.0	60.53	38.52	59.85
<b>Mean</b>	1.33	1.09	1.05	1.00	1.48	1.48	2.25	6.45	1.10	1.95	1.24	2.00
<b>Max</b>	6.5	3.5	2.4	1.0	13	9.7	12	42	3.1	14	7.4	17
<b>Min</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.59	0.65	0.65
<b>Ac-ft</b>	82	65	64	61	82	91	134	396	65	120	76	119

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.33	1.09	1.05	1.00	1.48	1.48	2.25	6.45	1.10	1.95	1.34	3.48
<b>Max</b>	1.33	1.09	1.05	1.00	1.48	1.48	2.25	6.45	1.10	1.95	1.43	4.97
<b>(WY)</b>	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)	(2008)
<b>Min</b>	1.33	1.09	1.05	1.00	1.48	1.48	2.25	6.45	1.10	1.95	1.24	2.00
<b>(WY)</b>	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)

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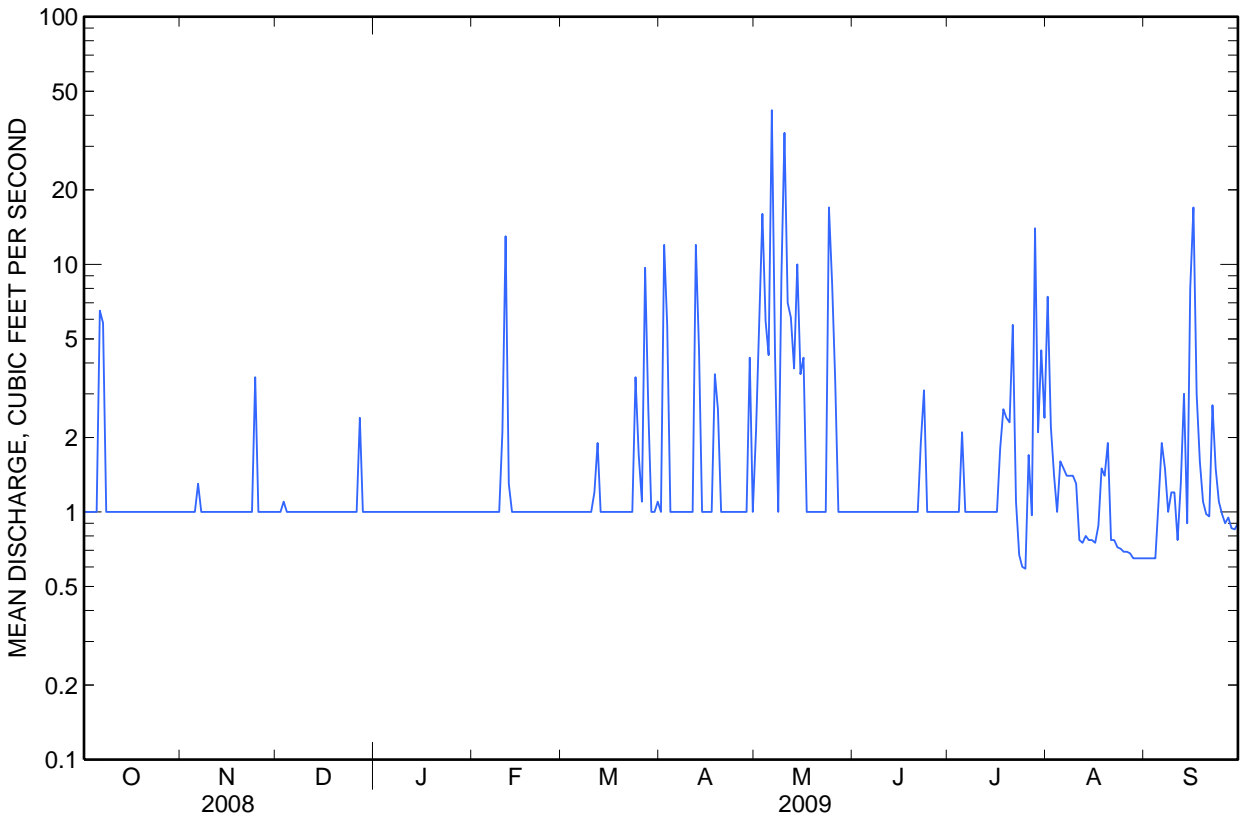
**SUMMARY STATISTICS**

	Water Year 2009	Water Years 2008 - 2009
<b>Annual total</b>	684.10	
<b>Annual mean</b>	1.87	1.87
<b>Highest annual mean</b>		1.87 2009
<b>Lowest annual mean</b>		1.87 2009
<b>Highest daily mean</b>	<sup>a</sup> 42 May 6	87 Sep 3, 2008
<b>Lowest daily mean</b>	0.59 Jul 25	0.59 Jul 25, 2009
<b>Annual seven-day minimum</b>	0.65 Aug 28	0.65 Aug 28, 2009
<b>Maximum peak stage</b>	5.81 May 6	5.81 May 6, 2009
<b>Instantaneous low flow</b>	<sup>b</sup> < 1.0 Feb 6 <sup>c</sup>	<sup>b</sup> < 1.0 Feb 6, 2009 <sup>c</sup>
<b>Annual runoff (ac-ft)</b>	1,360	1,360
<b>10 percent exceeds</b>	3.0	3.0
<b>50 percent exceeds</b>	< 1.0	< 1.0
<b>90 percent exceeds</b>	0.99	0.99

<sup>a</sup> Estimated

<sup>b</sup> Actual value is known to be less than the value shown

<sup>c</sup> Occurred on many days



## 07358257 HOT SPRINGS CREEK UPSTREAM OF TUNNEL ENTRANCE AT GLADE STREET AT HOT SPRINGS, AR—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	<1.0	<1.0
2	---	---	---	---	---	---	---	---	---	---	<1.0	e15
3	---	---	---	---	---	---	---	---	---	---	<1.0	87
4	---	---	---	---	---	---	---	---	---	---	<1.0	12
5	---	---	---	---	---	---	---	---	---	---	e1.0	e1.7
6	---	---	---	---	---	---	---	---	---	---	<1.0	<1.0
7	---	---	---	---	---	---	---	---	---	---	<1.0	<1.0
8	---	---	---	---	---	---	---	---	---	---	<1.0	<1.0
9	---	---	---	---	---	---	---	---	---	---	<1.0	<1.0
10	---	---	---	---	---	---	---	---	---	---	e2.3	<1.0
11	---	---	---	---	---	---	---	---	---	<1.0	e6.8	<1.0
12	---	---	---	---	---	---	---	---	---	<1.0	e2.6	e1.0
13	---	---	---	---	---	---	---	---	---	<1.0	<1.0	e4.2
14	---	---	---	---	---	---	---	---	---	<1.0	<1.0	5.1
15	---	---	---	---	---	---	---	---	---	<1.0	e1.0	e1.0
16	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
17	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
18	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
19	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
20	---	---	---	---	---	---	---	---	---	<1.0	e1.0	<1.0
21	---	---	---	---	---	---	---	---	---	<1.0	e5.7	<1.0
22	---	---	---	---	---	---	---	---	---	e1.2	<1.0	<1.0
23	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
24	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
25	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
26	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
27	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
28	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
29	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
30	---	---	---	---	---	---	---	---	---	<1.0	<1.0	<1.0
31	---	---	---	---	---	---	---	---	---	<1.0	<1.0	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	44.4	149.0
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	1.43	4.97
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	6.8	87
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	1.0	1.0
<b>Ac-ft</b>	---	---	---	---	---	---	---	---	---	---	88	296

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	1.43	4.97
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	1.43	4.97
<b>(WY)</b>	(---	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2008)	(2008)
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	1.43	4.97
<b>(WY)</b>	(---	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2008)	(2008)

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