



Water-Data Report 2009

07358284 HOT SPRINGS CREEK DOWNSTREAM OF GRAND AVE AT HOT SPRINGS, AR

Upper Ouachita Basin
Ouachita Headwaters Subbasin

LOCATION.--Lat 34°30'09.5", long 93°03'01.8" referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.4, T.35., R.19 W., Garland County, AR, Hydrologic Unit 08040101, and on Hot Springs Creek downstream of Grand Avenue.

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. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, undetermined, May 6, gage height 7.78 ft; minimum discharge, 2.4 ft³/s, Oct 1, 3, gage height, 0.42 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.3	3.7	4.8	5.3	7.1	5.4	9.7	5.7	8.5	7.4	e8.9	3.6
2	3.3	3.9	4.7	4.5	5.5	5.0	58	32	8.0	7.4	e8.7	3.6
3	3.2	3.9	8.6	4.0	5.2	4.8	31	96	8.1	7.4	e8.6	3.7
4	4.4	3.8	5.6	3.7	5.0	4.7	15	40	8.0	7.5	e6.3	3.6
5	3.5	3.9	5.2	13	5.0	4.6	12	29	7.0	22	9.3	3.7
6	30	9.4	5.0	6.0	4.8	4.5	9.4	e181	6.9	11	5.5	4.6
7	32	4.1	5.1	5.2	4.8	4.4	7.9	52	6.8	9.7	4.9	3.7
8	7.4	4.1	5.0	4.7	4.7	4.4	7.0	33	6.7	9.5	4.6	3.7
9	5.7	4.2	6.0	4.2	11	4.3	6.9	75	6.7	9.2	4.4	4.1
10	4.9	4.2	5.0	3.9	18	4.3	6.0	e165	6.6	9.1	4.2	3.8
11	4.6	12	4.7	3.8	78	15	5.4	78	7.3	8.8	4.1	3.7
12	4.3	6.7	4.7	3.6	22	21	61	63	6.6	9.1	4.0	5.1
13	4.1	4.8	4.5	3.6	13	15	27	49	6.5	9.2	4.0	16
14	4.0	4.5	4.7	3.5	10	13	15	64	7.2	e8.9	3.9	4.6
15	8.9	4.3	8.8	3.5	8.2	10	11	26	6.5	8.5	3.9	22
16	7.0	4.3	5.6	3.5	7.1	8.7	9.0	27	6.4	e20	3.9	71
17	4.6	4.2	5.4	3.5	6.8	7.6	7.7	16	6.4	9.8	3.9	13
18	4.3	4.2	5.3	3.5	6.2	6.9	20	13	6.3	7.7	3.9	8.1
19	4.1	4.2	5.6	3.5	5.6	6.3	13	11	6.2	7.2	4.0	6.0
20	4.0	4.2	5.3	3.6	5.2	5.7	9.4	10	6.4	7.0	7.7	5.3
21	4.0	4.2	4.9	3.5	5.7	5.4	8.1	9.4	6.4	30	4.0	4.8
22	4.1	4.2	4.8	3.7	5.0	5.2	7.3	8.7	8.2	7.5	3.8	13
23	4.7	4.2	6.5	3.6	4.7	5.0	6.7	8.7	18	6.3	3.8	5.5
24	4.0	25	6.3	3.7	4.6	24	6.0	69	8.4	6.0	3.7	5.3
25	3.9	6.8	5.2	3.7	4.6	19	5.6	49	7.8	5.7	3.8	4.8
26	3.8	5.9	5.1	3.8	4.4	17	5.4	21	7.0	11	3.7	4.5
27	3.9	5.5	21	9.9	10	81	6.0	20	6.7	6.7	3.7	4.4
28	3.8	5.0	12	9.0	7.1	35	5.5	14	6.9	70	3.6	4.2
29	3.9	4.8	8.8	5.4	---	17	19	e12	6.9	15	3.6	4.1
30	3.9	4.9	6.6	5.0	---	12	7.6	e10	7.6	32	3.7	4.1
31	3.8	---	5.7	5.0	---	16	---	9.3	---	14	3.6	---
Total	191.4	169.1	196.5	146.4	279.3	392.2	418.6	1,296.8	223.0	400.6	149.7	247.6
Mean	6.17	5.64	6.34	4.72	9.97	12.7	14.0	41.8	7.43	12.9	4.83	8.25
Max	32	25	21	13	78	81	61	181	18	70	9.3	71
Min	3.2	3.7	4.5	3.5	4.4	4.3	5.4	5.7	6.2	5.7	3.6	3.6
Ac-ft	380	335	390	290	554	778	830	2,570	442	795	297	491

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
Mean	6.17	5.64	6.34	4.72	9.97	12.7	14.0	41.8	7.43	12.9	6.18	17.2
Max	6.17	5.64	6.34	4.72	9.97	12.7	14.0	41.8	7.43	12.9	7.54	26.1
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)	(2008)
Min	6.17	5.64	6.34	4.72	9.97	12.7	14.0	41.8	7.43	12.9	4.83	8.25
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)

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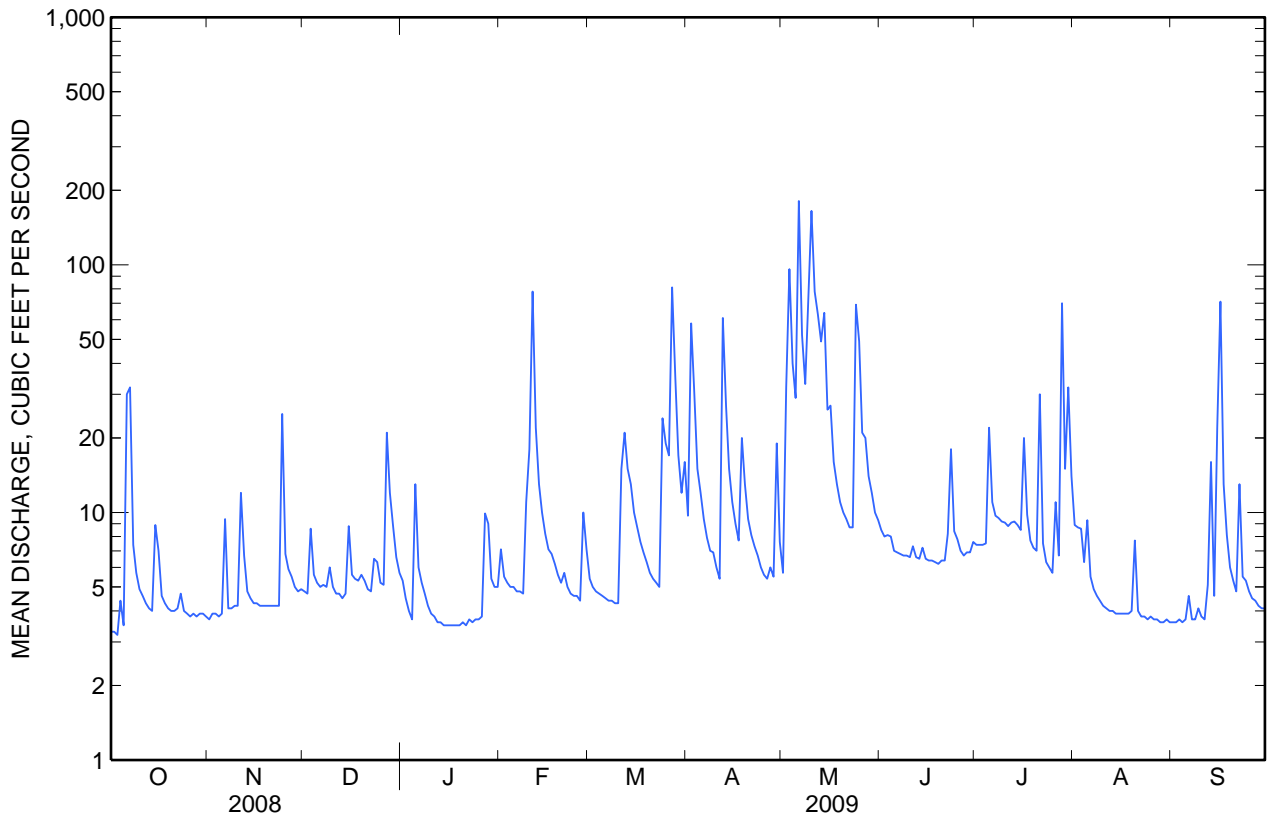
SUMMARY STATISTICS

	Water Year 2009		Water Years 2008 - 2009	
Annual total	4,111.2			
Annual mean	11.3		11.3	
Highest daily mean	^a 181	May 6	345	Sep 3, 2008
Lowest daily mean	3.2	Oct 3	2.8	Jul 18, 2008
Annual seven-day minimum	3.5	Jan 13	2.9	Jul 29, 2008
Maximum peak stage	7.78	May 6	7.78	May 6, 2009
Instantaneous low flow	2.4	Oct 1 ^b	2.4	Oct 1, 2008 ^c
Annual runoff (ac-ft)	8,150		8,160	
10 percent exceeds	21		21	
50 percent exceeds	5.9		5.9	
90 percent exceeds	3.8		3.8	

^a Estimated

^b Also Oct 3

^c Occurred on several days



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	2.9	3.6
2	---	---	---	---	---	---	---	---	---	---	2.8	76
3	---	---	---	---	---	---	---	---	---	---	2.9	345
4	---	---	---	---	---	---	---	---	---	---	2.8	96
5	---	---	---	---	---	---	---	---	---	---	3.1	31
6	---	---	---	---	---	---	---	---	---	---	3.0	22
7	---	---	---	---	---	---	---	---	---	---	2.9	18
8	---	---	---	---	---	---	---	---	---	---	2.9	15
9	---	---	---	---	---	---	---	---	---	6.8	3.1	14
10	---	---	---	---	---	---	---	---	---	3.4	19	12
11	---	---	---	---	---	---	---	---	---	3.3	48	12
12	---	---	---	---	---	---	---	---	---	3.2	30	12
13	---	---	---	---	---	---	---	---	---	3.1	6.3	25
14	---	---	---	---	---	---	---	---	---	3.1	4.8	31
15	---	---	---	---	---	---	---	---	---	3.0	4.6	9.0
16	---	---	---	---	---	---	---	---	---	3.0	4.1	6.4
17	---	---	---	---	---	---	---	---	---	2.9	3.9	5.4
18	---	---	---	---	---	---	---	---	---	2.8	3.7	4.8
19	---	---	---	---	---	---	---	---	---	2.9	4.3	4.4
20	---	---	---	---	---	---	---	---	---	2.8	4.6	4.0
21	---	---	---	---	---	---	---	---	---	2.8	30	3.9
22	---	---	---	---	---	---	---	---	---	7.0	6.5	3.6
23	---	---	---	---	---	---	---	---	---	3.3	5.3	3.6
24	---	---	---	---	---	---	---	---	---	3.2	5.0	3.4
25	---	---	---	---	---	---	---	---	---	4.1	4.3	3.5
26	---	---	---	---	---	---	---	---	---	3.2	4.1	3.4
27	---	---	---	---	---	---	---	---	---	3.0	3.9	3.5
28	---	---	---	---	---	---	---	---	---	3.0	3.8	3.4
29	---	---	---	---	---	---	---	---	---	2.8	4.0	3.3
30	---	---	---	---	---	---	---	---	---	2.9	3.6	3.4
31	---	---	---	---	---	---	---	---	---	3.0	3.5	---
Total	---	---	---	---	---	---	---	---	---	---	233.7	781.6
Mean	---	---	---	---	---	---	---	---	---	---	7.54	26.1
Max	---	---	---	---	---	---	---	---	---	---	48	345
Min	---	---	---	---	---	---	---	---	---	---	2.8	3.3
Ac-ft	---	---	---	---	---	---	---	---	---	---	464	1,550

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
Mean	---	---	---	---	---	---	---	---	---	---	7.54	26.1
Max	---	---	---	---	---	---	---	---	---	---	7.54	26.1
(WY)	(---	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2008)	(2008)
Min	---	---	---	---	---	---	---	---	---	---	7.54	26.1
(WY)	(---	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2008)	(2008)

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