

Water-Data Report 2009

07358250 WHITTINGTON CREEK AT WHITTINGTON PARK AT HOT SPRINGS, AR

Upper Ouachita Basin
Ouachita Headwaters Subbasin

LOCATION.--Lat 34°30'48.4", long 93°04'49.5" referenced to North American Datum of 1983, in NE ¼ NE ¼ SE ¼ sec.31, T.2 S., R.19 W., Garland County, AR, Hydrologic Unit 08040101, and on right bank 100 ft downstream of foot bridge in Whittington Park.

DRAINAGE AREA.--0.83 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous discharge measurements made 1970 to 1972 are published in 1972 WDR as "West Fork Hot Springs Creek at Hot Springs", and Jul 2008 to current year.

GAGE.--Water-discharge recorder.

REMARKS.--Water-discharge records poor for Jul 2008 to Mar 2009 and fair from Mar 2009 to Oct 2009 except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft³/s, May 6, gage height, 2.46 ft; minimum discharge, 0.00 ft³/s, occurred on many days, gage height, 0.32 ft.

07358250 WHITTINGTON CREEK AT WHITTINGTON PARK AT HOT SPRINGS, AR—Continued

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	0.00	0.00	0.08	0.64	0.12	0.03	1.7	0.00	0.29	0.00	4.5	0.00
2	0.00	0.00	0.01	0.52	0.10	0.08	2.6	0.07	0.15	0.00	3.0	0.00
3	0.00	0.00	0.00	0.40	0.10	0.07	4.6	9.8	0.04	0.00	1.3	0.00
4	0.00	0.00	0.00	0.29	0.09	0.02	2.9	6.6	0.00	0.00	0.81	0.00
5	0.00	0.00	0.00	0.25	0.07	0.00	2.0	3.3	0.00	0.00	0.52	0.00
6	8.3	0.00	0.00	0.23	0.04	0.00	1.5	e37	0.00	0.00	0.31	0.00
7	6.6	0.00	0.00	0.33	0.02	0.00	1.2	4.8	0.00	0.00	0.15	0.00
8	8.8	0.00	0.00	0.48	0.01	0.00	1.1	1.9	0.00	0.00	0.00	0.00
9	7.2	0.00	0.00	0.50	0.02	0.00	0.89	4.0	0.00	0.00	0.00	0.00
10	5.6	0.00	0.00	0.45	0.10	0.00	0.68	36	0.00	0.00	0.00	0.00
11	3.5	0.00	0.00	0.37	5.4	0.01	0.46	7.7	0.00	0.00	0.00	0.00
12	0.66	0.00	0.00	0.28	3.7	0.36	3.0	3.6	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.21	2.3	1.7	5.7	3.0	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.15	1.5	1.8	3.1	4.3	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.09	1.1	1.6	2.0	2.7	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.05	0.92	1.3	1.3	1.8	0.00	0.00	0.00	1.8
17	0.00	0.00	0.00	0.02	0.78	1.1	1.1	1.2	0.00	0.00	0.00	2.8
18	0.02	0.00	0.00	0.00	0.66	0.91	0.96	0.72	0.00	0.00	0.00	0.96
19	0.22	0.00	0.01	0.00	0.57	0.81	1.2	0.48	0.00	0.00	0.00	0.51
20	0.03	0.00	0.04	0.00	0.41	0.72	1.3	0.32	0.00	0.00	0.00	0.29
21	0.00	0.00	0.08	0.00	0.28	0.59	1.0	0.20	0.00	0.00	0.00	0.15
22	0.00	0.00	0.10	0.00	0.18	0.47	0.83	0.10	0.00	0.00	0.00	0.06
23	0.00	0.00	0.09	0.00	0.12	0.39	0.64	0.03	0.00	0.00	0.00	0.05
24	0.00	0.36	0.08	0.00	0.05	5.4	0.44	0.83	0.00	0.00	0.00	0.10
25	0.00	0.73	0.11	0.00	0.00	1.2	0.24	4.0	0.00	0.00	0.00	0.09
26	0.00	1.3	0.15	0.00	0.00	3.1	0.11	2.1	0.00	0.00	0.00	0.04
27	0.00	1.2	0.27	0.00	0.00	11	0.01	1.4	0.00	0.00	0.00	0.00
28	0.00	0.86	0.65	0.00	0.00	6.4	0.00	1.3	0.00	0.00	0.00	0.00
29	0.00	0.50	1.1	0.01	---	3.6	0.08	e0.82	0.00	0.94	0.00	0.00
30	0.00	0.23	0.89	0.11	---	2.4	0.01	e0.53	0.00	1.3	0.00	0.00
31	0.00	---	0.75	0.14	---	2.0	---	0.40	---	2.5	0.00	---
Total	40.93	5.18	4.41	5.52	18.64	47.06	42.65	141.00	0.48	4.74	10.59	6.85
Mean	1.32	0.17	0.14	0.18	0.67	1.52	1.42	4.55	0.02	0.15	0.34	0.23
Max	8.8	1.3	1.1	0.64	5.4	11	5.7	37	0.29	2.5	4.5	2.8
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ac-ft	81	10	8.7	11	37	93	85	280	1.0	9.4	21	14
Cfsm	1.59	0.21	0.17	0.21	0.80	1.83	1.71	5.48	0.02	0.18	0.41	0.28
In.	1.83	0.23	0.20	0.25	0.84	2.11	1.91	6.32	0.02	0.21	0.47	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.66	1.53	0.81	0.78	0.97	1.20	0.89	1.79	0.25	0.08	1.00	1.74
Max	1.32	5.24	1.41	1.11	1.64	1.52	1.42	4.55	0.53	0.15	2.45	4.44
(WY)	(2009)	(1973)	(1972)	(1972)	(1971)	(2009)	(2009)	(2009)	(1972)	(2009)	(2008)	(2008)
Min	0.23	0.17	0.14	0.18	0.62	0.89	0.35	0.21	0.02	0.00	0.23	0.23
(WY)	(1972)	(2009)	(2009)	(2009)	(1972)	(1971)	(1971)	(1971)	(2009)	(2008)	(1972)	(2009)

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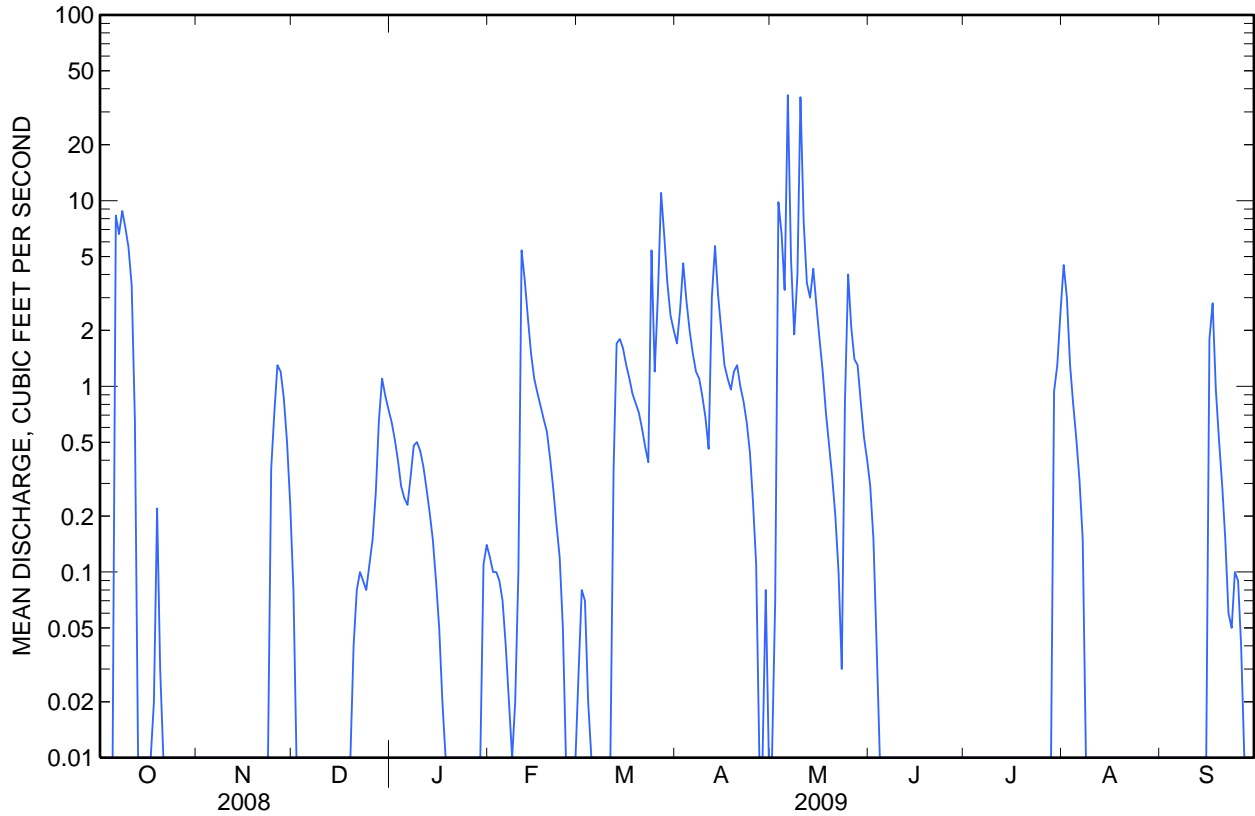
SUMMARY STATISTICS

	Water Year 2009	Water Years 1971 - 2009
Annual total	328.05	
Annual mean	0.90	0.90
Highest annual mean		0.90 2009
Lowest annual mean		0.90 2009
Highest daily mean	^a 37 May 6	b
Lowest daily mean	0.00 Oct 1 ^c	0.00 Jan 18, 1972 ^c
Annual seven-day minimum	0.00 Oct 21	0.00 Jul 1, 2008
Maximum peak flow	130 May 6	130 May 6, 2009
Maximum peak stage	2.46 May 6	2.46 May 6, 2009
Instantaneous low flow	0.00 Oct 13 ^c	0.00 Oct 13, 2008 ^c
Annual runoff (ac-ft)	651	651
Annual runoff (cfsm)	1.08	1.08
Annual runoff (inches)	14.70	14.71
10 percent exceeds	2.4	2.4
50 percent exceeds	0.01	0.01
90 percent exceeds	0.00	0.00

^a Estimated

^b Undetermined

^c Occurred on many 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	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	---	0.00	0.00	16
3	---	---	---	---	---	---	---	---	---	0.00	0.00	e88
4	---	---	---	---	---	---	---	---	---	0.00	0.00	17
5	---	---	---	---	---	---	---	---	---	0.00	0.00	3.8
6	---	---	---	---	---	---	---	---	---	0.00	0.00	1.6
7	---	---	---	---	---	---	---	---	---	0.00	0.00	0.86
8	---	---	---	---	---	---	---	---	---	0.00	0.00	0.60
9	---	---	---	---	---	---	---	---	---	0.00	0.00	0.44
10	---	---	---	---	---	---	---	---	---	0.00	0.00	0.27
11	---	---	---	---	---	---	---	---	---	0.00	5.3	0.12
12	---	---	---	---	---	---	---	---	---	0.00	4.9	0.01
13	---	---	---	---	---	---	---	---	---	0.00	5.8	0.00
14	---	---	---	---	---	---	---	---	---	0.00	6.6	1.2
15	---	---	---	---	---	---	---	---	---	0.00	5.9	1.2
16	---	---	---	---	---	---	---	---	---	0.00	2.2	0.68
17	---	---	---	---	---	---	---	---	---	0.00	0.00	0.52
18	---	---	---	---	---	---	---	---	---	0.00	0.00	0.38
19	---	---	---	---	---	---	---	---	---	0.00	0.00	0.24
20	---	---	---	---	---	---	---	---	---	0.00	0.00	0.11
21	---	---	---	---	---	---	---	---	---	0.00	9.1	0.02
22	---	---	---	---	---	---	---	---	---	0.00	12	0.00
23	---	---	---	---	---	---	---	---	---	0.00	10	0.00
24	---	---	---	---	---	---	---	---	---	0.00	8.3	0.00
25	---	---	---	---	---	---	---	---	---	0.00	5.1	0.00
26	---	---	---	---	---	---	---	---	---	0.00	0.62	0.00
27	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
28	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
29	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
30	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
31	---	---	---	---	---	---	---	---	---	0.00	0.00	---
Total	---	---	---	---	---	---	---	---	---	0.00	75.82	133.05
Mean	---	---	---	---	---	---	---	---	---	0.00	2.45	4.43
Max	---	---	---	---	---	---	---	---	---	0.00	12	88
Min	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
Ac-ft	---	---	---	---	---	---	---	---	---	0.00	150	264
Cfsm	---	---	---	---	---	---	---	---	---	0.00	2.95	5.34
In.	---	---	---	---	---	---	---	---	---	0.00	3.40	5.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.33	1.98	1.15	1.08	1.12	0.89	0.35	0.42	0.37	0.00	1.34	2.50
Max	0.43	5.24	1.41	1.11	1.64	0.89	0.35	0.62	0.53	0.00	2.45	4.44
(WY)	(1971)	(1973)	(1972)	(1972)	(1971)	(1971)	(1971)	(1972)	(1972)	(2008)	(2008)	(2008)
Min	0.23	0.25	0.89	1.05	0.62	0.89	0.35	0.21	0.22	0.00	0.23	0.57
(WY)	(1972)	(1972)	(1971)	(1971)	(1972)	(1971)	(1971)	(1971)	(1971)	(2008)	(1972)	(1972)

07358250 WHITTINGTON CREEK AT WHITTINGTON PARK AT HOT SPRINGS, AR—Continued

SUMMARY STATISTICS

Water Years 1971 - 2008		
Highest daily mean	^a	Oct 31, 1972
Lowest daily mean	0.00	Jan 18, 1972 ^b
Annual seven-day minimum	0.00	Jul 1, 2008

^a Undetermined

^b Occurred on many days

