

Water-Data Report 2009

07359610 CADDO RIVER NEAR CADDO GAP, AR

Upper Ouachita Basin
Upper Ouachita Subbasin

LOCATION.--Lat 34°22'59", long 93°36'21" referenced to North American Datum of 1983, in SW ¼ NE ¼ sec.19, T.4 S., R.24 W., Montgomery County, AR, Hydrologic Unit 08040102, on downstream side of bridge on State Hwy 240, and 1.3 mi southeast of Caddo Gap.

DRAINAGE AREA.--136 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct 1988 to current year. Results of discharge measurements Apr 1975 to Sep 1978 are contained in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 577.81 ft above NGVD of 1929.

REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 12,900 ft³/s, May 6, gage height 15.25 ft; minimum discharge, 47 ft³/s, Jul 4, gage height, 4.87 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	72	97	121	205	159	159	367	184	103	55	2,370	65
2	71	96	112	187	149	148	345	543	99	53	963	64
3	70	95	110	174	138	139	366	2,910	96	51	449	102
4	80	93	133	161	130	134	291	1,510	93	51	281	80
5	79	93	118	174	123	128	252	822	91	99	264	72
6	158	96	113	203	119	123	216	6,280	87	71	202	71
7	995	94	109	190	117	118	193	1,480	83	61	153	70
8	410	91	105	177	112	118	178	652	81	59	130	67
9	238	91	206	165	117	114	170	449	74	58	114	65
10	181	91	220	157	164	112	177	1,260	73	56	103	65
11	156	172	185	146	1,370	315	152	1,530	100	55	125	69
12	139	159	166	139	602	1,090	1,170	3,050	83	54	106	79
13	127	137	151	132	413	708	1,080	1,820	83	53	94	203
14	119	125	143	127	310	502	522	2,920	83	e54	88	171
15	127	115	159	120	250	411	378	1,190	73	54	84	166
16	205	109	182	115	211	332	291	876	71	92	80	5,530
17	160	105	181	112	190	273	243	557	e69	101	77	3,870
18	141	101	268	110	184	235	354	376	e66	62	81	908
19	128	98	603	107	161	208	605	284	e66	59	91	503
20	119	97	419	105	148	188	467	237	65	60	88	375
21	112	94	319	102	142	170	359	193	63	220	88	294
22	108	93	238	99	132	158	282	168	61	157	76	702
23	180	92	222	98	124	147	237	151	60	93	73	434
24	155	262	242	96	119	284	201	179	60	74	72	337
25	136	215	220	93	117	545	179	311	59	67	72	268
26	125	178	219	94	115	569	162	217	57	896	70	214
27	112	157	362	119	147	1,060	149	171	56	938	68	177
28	107	146	525	304	183	1,830	141	148	55	1,200	67	e158
29	105	138	369	226	---	749	155	e129	55	389	66	e141
30	102	129	305	186	---	472	260	e116	54	370	67	131
31	99	---	236	170	---	455	---	110	---	463	67	---
Total	5,116	3,659	7,061	4,593	6,246	11,994	9,942	30,823	2,219	6,125	6,729	15,451
Mean	165	122	228	148	223	387	331	994	74.0	198	217	515
Max	995	262	603	304	1,370	1,830	1,170	6,280	103	1,200	2,370	5,530
Min	70	91	105	93	112	112	141	110	54	51	66	64
Ac-ft	10,150	7,260	14,010	9,110	12,390	23,790	19,720	61,140	4,400	12,150	13,350	30,650
Cfs/m	1.21	0.90	1.67	1.09	1.64	2.84	2.44	7.31	0.54	1.45	1.60	3.79
In.	1.40	1.00	1.93	1.26	1.71	3.28	2.72	8.43	0.61	1.68	1.84	4.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	157	326	403	369	350	422	327	329	178	116	74.8	159
Max	405	1,149	1,289	891	979	898	890	1,176	599	387	287	1,452
(WY)	(1994)	(1997)	(1994)	(2007)	(2001)	(2008)	(2008)	(1990)	(2000)	(2007)	(2008)	(2008)
Min	38.3	52.5	50.9	76.4	112	127	95.6	68.4	41.2	32.9	23.5	33.4
(WY)	(2001)	(1990)	(1990)	(2000)	(1996)	(2007)	(2003)	(2005)	(2006)	(2006)	(2006)	(2004)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1989 - 2009	
Annual total	150,183		109,958			
Annual mean	410		301		267	
Highest annual mean					397	2008
Lowest annual mean					145	2006
Highest daily mean	17,100	Sep 3	6,280	May 6	28,600	Dec 3, 1993
Lowest daily mean	26	Aug 6	51	Jul 3 ^a	16	Aug 19, 2006
Annual seven-day minimum	29	Aug 1	53	Jun 28	18	Aug 15, 2006
Maximum peak flow			12,900	May 6	^b 97,200	Dec 3, 1993
Maximum peak stage			15.25	May 6	26.27	Dec 3, 1993
Instantaneous low flow			47	Jul 4	16	Aug 3, 2006
Annual runoff (ac-ft)	297,900		218,100		193,500	
Annual runoff (cfsm)	3.02		2.22		1.96	
Annual runoff (inches)	41.08		30.08		26.69	
10 percent exceeds	738		550		479	
50 percent exceeds	143		141		114	
90 percent exceeds	65		67		40	

^a Also Jul 4

^b From rating curve extended above 10,000 ft³/s on basis of slope-conveyance study

