

Water-Data Report 2009

07077380 CACHE RIVER AT EGYPT, AR

White Basin
Cache Subbasin

LOCATION.--Lat 35°51'28", long 90°56'00" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.12, T.14 N., R.1 E., Craighead County, AR, Hydrologic Unit 08020302, on left upstream abutment of bridge on State Hwy 91, 50 ft downstream from junction of East Cache River Ditch (Cache River channel separation), 1.0 mi southeast of Egypt, 2.2 mi northwest of Winesburg, and at river mile 143.

DRAINAGE AREA.--701 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct 1964 to current year. Daily stages and results of discharge measurements for Jul 1937 to Dec 1940 and Dec 1944 to current year are published in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WDR Arkansas 1972: 1966. WDR Arkansas 1973: Drainage area. WDR Arkansas 2000: 1998 to 1999.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,700 ft³/s, May 10, gage height, 19.25 ft; minimum discharge, 0.00 ft³/s, on many days, gage height, 6.59 ft.

07077380 CACHE RIVER AT EGYPT, 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	73	8.6	6.9	331	3,570	458	280	e2,410	e1,030	0.00	796	171
2	47	5.2	5.8	213	3,380	477	216	e2,810	e788	0.00	314	124
3	38	3.3	5.9	157	3,180	788	221	e3,300	e630	0.00	111	97
4	26	1.4	195	124	3,000	588	188	e3,710	e371	0.00	39	119
5	22	0.06	255	92	2,830	385	149	e4,110	e239	e1.0	394	244
6	17	0.00	135	80	2,560	337	106	e4,290	e151	e1.0	872	333
7	23	0.00	84	109	1,760	305	77	e4,310	e94	e1.0	675	248
8	104	0.00	54	93	1,070	244	66	4,220	e29	e1.0	349	144
9	313	0.00	306	88	779	189	57	4,490	e3.0	e1.0	175	104
10	264	0.00	1,750	64	1,580	156	89	4,690	3.8	e2.0	85	92
11	159	0.00	1,930	51	3,800	294	104	4,600	607	4.2	240	113
12	87	0.00	1,250	64	4,240	983	277	4,450	1,090	448	442	96
13	47	2.4	606	65	4,170	1,100	1,950	4,290	1,090	995	300	80
14	28	2.5	329	44	4,000	630	2,190	4,310	453	e670	160	62
15	18	166	239	35	3,760	358	1,730	4,360	126	296	97	281
16	38	184	293	21	3,520	234	740	4,270	1,780	630	86	1,380
17	113	184	282	20	3,310	175	282	4,150	2,230	2,030	69	2,050
18	105	117	289	20	3,140	166	188	4,020	2,150	2,040	102	2,250
19	108	49	1,000	21	2,790	154	1,360	3,890	2,070	1,240	238	2,070
20	72	20	1,720	22	1,980	122	3,040	3,730	2,000	346	488	1,950
21	40	7.0	1,480	18	1,060	102	2,900	3,550	1,590	663	728	1,610
22	24	e0.00	701	15	624	77	2,580	3,300	481	3,530	666	1,080
23	17	e0.00	279	19	423	60	1,610	e2,870	63	3,940	355	695
24	12	0.00	473	25	345	e59	e770	e2,300	10	3,860	172	886
25	8.4	7.9	1,010	25	295	e1,520	e694	e3,150	0.00	3,620	94	2,100
26	57	15	977	47	261	1,890	e785	e2,900	0.00	3,550	59	2,250
27	104	18	722	e64	270	2,110	e961	e2,410	0.00	3,420	63	2,030
28	55	15	1,650	e3,430	391	2,050	e1,210	2,340	0.00	2,870	140	1,340
29	31	9.3	1,900	e3,880	---	1,360	e1,550	e1,900	0.00	1,790	296	620
30	19	8.8	1,300	3,830	---	910	e1,950	e1,650	0.00	1,130	349	232
31	13	---	633	3,720	---	515	---	e1,360	---	1,320	272	---
Total	2,082.4	824.46	21,860.6	16,787	62,088	18,796	28,320	108,140	19,078.80	38,399.20	9,226	24,851
Mean	67.2	27.5	705	542	2,217	606	944	3,488	636	1,239	298	828
Max	313	184	1,930	3,880	4,240	2,110	3,040	4,690	2,230	3,940	872	2,250
Min	8.4	0.00	5.8	15	261	59	57	1,360	0.00	0.00	39	62
Ac-ft	4,130	1,640	43,360	33,300	123,200	37,280	56,170	214,500	37,840	76,160	18,300	49,290
Cfsm	0.10	0.04	1.01	0.77	3.16	0.86	1.35	4.98	0.91	1.77	0.42	1.18
In.	0.11	0.04	1.16	0.89	3.29	1.00	1.50	5.74	1.01	2.04	0.49	1.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	404	758	1,296	1,283	1,266	1,201	1,193	1,079	454	459	443	491
Max	2,437	2,942	4,729	4,249	3,552	3,543	4,759	4,256	1,655	1,528	2,117	1,637
(WY)	(1985)	(1997)	(2002)	(1991)	(1989)	(1997)	(1979)	(1973)	(2000)	(1976)	(1998)	(1965)
Min	12.5	0.47	6.02	11.8	87.4	137	75.2	84.9	29.2	102	85.8	61.9
(WY)	(1995)	(2006)	(2006)	(1981)	(1996)	(2007)	(1981)	(1987)	(1988)	(1968)	(1968)	(2004)

07077380 CACHE RIVER AT EGYPT, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1965 - 2009	
Annual total	325,147.46		350,453.46			
Annual mean	888		960		859	
Highest annual mean					1,762	1973
Lowest annual mean					299	1972
Highest daily mean	5,460	Apr 6	4,690	May 10	7,940	Apr 25, 1973
Lowest daily mean	0.00	Jun 18	0.00	Nov 6 ^a	0.00	Nov 6, 1982 ^a
Annual seven-day minimum	0.00	Nov 6	0.00	Nov 6	0.00	Oct 14, 1991
Maximum peak flow			4,700	May 10	8,490	Jan 6, 1966
Maximum peak stage			19.25	May 10	21.88	Jan 6, 1966
Instantaneous low flow			0.00	Nov 5 ^a	0.00	Jan 1, 1965 ^a
Annual runoff (ac-ft)	644,900		695,100		622,300	
Annual runoff (cfsm)	1.27		1.37		1.23	
Annual runoff (inches)	17.25		18.60		16.65	
10 percent exceeds	3,890		3,340		2,800	
50 percent exceeds	215		282		290	
90 percent exceeds	18		5.9		34	

^a Occurred on many days