

Water-Data Report 2007

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 date are published in reports of the U.S. Army Corps of Engineers.

REVISED RECORDS.--WDR Arkansas 1972: 1966. WDR Arkansas 1973: Drainage area. WDR Arkansas 2000: 1998-99.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft above NGVD of 1929 (levels by the 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, 5,130 ft³/s, Jan 17, 18, gage height, 19.83 ft; minimum discharge, 0.00 ft³/s, May 23-27, gage height, 4.18 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,280	2,710	1,440	1,810	1,080	1,510	111	14	52	2,580	204	226
2	3,160	1,970	2,290	1,190	750	671	82	192	38	3,750	197	206
3	3,030	858	2,260	490	517	360	66	1,210	18	3,760	204	190
4	2,910	386	1,880	236	355	248	112	2,070	12	3,470	191	164
5	2,800	219	822	704	289	193	968	2,230	8.4	2,490	200	178
6	2,680	756	276	1,250	225	157	520	2,160	18	997	179	252
7	2,600	2,670	159	1,400	199	140	144	1,690	13	416	134	271
8	2,560	2,900	97	2,030	230	126	63	803	53	331	91	335
9	2,460	2,670	57	1,860	217	99	37	401	220	217	100	1,440
10	2,350	1,830	43	938	184	83	24	219	362	185	135	1,870
11	2,230	1,320	42	345	168	67	43	269	251	561	166	1,430
12	2,010	1,470	723	198	203	65	72	966	184	469	178	1,020
13	1,540	869	1,860	1,690	598	54	124	726	142	336	184	703
14	895	519	1,840	4,320	1,800	46	595	360	85	285	161	379
15	518	1,020	1,040	4,890	2,090	51	949	186	44	248	141	219
16	523	3,390	389	5,050	e1,910	49	762	116	29	223	161	141
17	2,710	3,680	207	5,100	e873	39	269	349	32	149	187	104
18	3,410	3,390	145	5,090	503	29	127	174	69	130	207	72
19	3,250	2,860	102	4,990	319	22	74	84	117	144	264	57
20	3,080	1,430	69	4,830	307	24	55	42	260	135	262	50
21	2,860	591	263	4,780	334	29	44	23	344	129	274	39
22	2,170	298	996	4,700	365	37	31	16	184	151	300	33
23	962	204	1,110	4,560	275	31	22	0.04	88	169	296	30
24	441	143	679	4,440	449	21	17	0.00	689	155	258	24
25	248	104	807	4,320	2,840	17	179	0.00	907	140	290	14
26	170	69	2,180	4,200	3,050	18	251	0.00	408	143	373	18
27	1,570	52	2,310	4,060	2,800	16	149	1.2	186	133	341	490
28	3,480	41	1,730	3,900	2,490	15	74	14	90	196	263	440
29	3,460	33	686	3,550	---	12	38	19	100	395	226	205
30	3,190	39	545	2,660	---	12	22	53	439	447	249	114
31	2,940	---	1,510	1,670	---	20	---	50	---	318	237	---
Total	69,487	38,491	28,557	91,251	25,420	4,261	6,024	14,437.24	5,442.4	23,252	6,653	10,714
Mean	2,242	1,283	921	2,944	908	137	201	466	181	750	215	357
Max	3,480	3,680	2,310	5,100	3,050	1,510	968	2,230	907	3,760	373	1,870
Min	170	33	42	198	168	12	17	0.00	8.4	129	91	14
Ac-ft	137,800	76,350	56,640	181,000	50,420	8,450	11,950	28,640	10,800	46,120	13,200	21,250
Cfsm	3.20	1.83	1.31	4.20	1.30	0.20	0.29	0.66	0.26	1.07	0.31	0.51
In.	3.69	2.04	1.52	4.84	1.35	0.23	0.32	0.77	0.29	1.23	0.35	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	399	782	1,299	1,325	1,243	1,163	1,153	1,041	459	446	444	480
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)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1965 - 2007	
Annual total	263,411.50		323,989.64			
Annual mean	722		888		851	
Highest annual mean					1,762	1973
Lowest annual mean					299	1972
Highest daily mean	4,450	Sep 25	5,100	Jan 17	7,940	Apr 25, 1973
Lowest daily mean	0.00	Jan 1	0.00	May 24 ^a	0.00	Nov 6, 1982
Annual seven-day minimum	0.00	Jan 1	4.5	May 22	0.00	Oct 14, 1991
Maximum peak flow			5,130	Jan 17 ^a	8,490	Jan 6, 1966
Maximum peak stage			19.83	Jan 17	21.88	Jan 6, 1966
Instantaneous low flow			0.00	May 24 ^a	0.00	Jan 1, 1965
Annual runoff (ac-ft)	522,500		642,600		616,700	
Annual runoff (cfs)	1.03		1.27		1.21	
Annual runoff (inches)	13.98		17.19		16.50	
10 percent exceeds	2,500		2,860		2,760	
50 percent exceeds	178		262		289	
90 percent exceeds	6.9		31		35	

^a Occurred on multiple days