

Water-Data Report 2006

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 1927, 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 Highway 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, at 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 from the U.S. Army Corps of Engineers.

REVISED RECORDS.--WDR Ark. 1972: 1966. WDR Ark. 1973: Drainage area. WDR Ark. 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, 4,490 ft³/s, Sep 24 and 25, gage height, 17.68 ft; minimum discharge, 0 ft³/s, on many days, gage height, minimum 4.14 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	209	0.00	61	0.00	177	51	125	952	56	7.9	448	601
2	147	0.00	47	0.00	186	68	47	699	90	13	213	461
3	104	0.00	25	0.00	1,210	69	74	405	41	22	100	322
4	74	0.00	13	0.00	1,660	62	362	338	6.1	7.2	e55	226
5	53	0.00	7.7	0.00	1,270	51	163	752	0.00	3.0	464	161
6	37	0.00	6.6	0.00	486	40	72	467	0.00	22	900	130
7	24	0.00	6.2	0.00	206	31	48	189	2.3	43	576	118
8	17	0.00	5.5	0.00	137	43	31	93	0.00	31	302	130
9	11	0.00	3.9	0.00	96	736	21	332	0.00	30	177	116
10	8.2	0.00	3.2	35	79	2,980	17	1,420	1.1	53	126	101
11	6.1	0.00	2.4	61	69	2,900	13	2,050	0.00	621	617	83
12	4.7	0.00	2.0	45	61	2,640	8.6	1,870	0.00	1,780	1,440	64
13	3.5	0.00	1.4	82	56	2,410	5.9	1,160	0.00	2,250	1,290	49
14	2.8	0.00	1.1	84	48	1,810	4.8	372	0.00	2,400	865	37
15	2.3	0.00	0.47	61	41	774	3.9	146	0.00	2,360	646	27
16	1.9	0.00	0.28	46	41	302	3.4	86	0.00	1,890	663	21
17	1.5	0.00	0.00	71	81	139	1.9	56	38	702	446	20
18	1.0	0.00	0.00	135	125	80	2.9	41	684	178	286	227
19	0.44	0.00	0.00	175	132	52	6.2	31	1,120	79	260	298
20	0.00	0.00	0.00	117	83	381	6.1	27	1,330	48	241	345
21	0.00	0.00	0.00	63	53	1,740	6.4	22	1,140	38	325	182
22	0.00	0.00	0.00	81	60	2,030	6.4	17	569	57	880	1,210
23	0.00	0.00	0.00	1,030	115	1,430	13	16	177	110	859	3,750
24	0.00	0.00	0.00	1,220	316	478	13	15	178	116	770	4,440
25	0.00	0.00	0.00	779	194	187	50	15	143	74	683	4,450
26	0.00	0.00	0.00	278	95	114	205	16	80	51	604	4,290
27	0.00	0.00	0.00	126	61	70	494	13	34	72	490	4,070
28	0.00	0.00	0.00	72	51	55	209	10	5.4	345	691	3,830
29	0.00	0.00	0.00	113	---	42	110	43	0.00	1,500	1,230	3,620
30	0.00	14	0.00	130	---	35	791	68	0.00	1,510	925	3,440
31	0.00	---	0.00	198	---	72	---	50	---	892	737	---
Total	708.44	14.00	186.75	5,002.00	7,189	21,872	2,914.5	11,771	5,694.90	17,305.1	18,309	36,819
Mean	22.9	0.47	6.02	161	257	706	97.2	380	190	558	591	1,227
Max	209	14	61	1,220	1,660	2,980	791	2,050	1,330	2,400	1,440	4,450
Min	0.00	0.00	0.00	0.00	41	31	1.9	10	0.00	3.0	55	20
Ac-ft	1,410	28	370	9,920	14,260	43,380	5,780	23,350	11,300	34,320	36,320	73,030
Cfsm	0.03	0.00	0.01	0.23	0.37	1.01	0.14	0.54	0.27	0.80	0.84	1.75
In.	0.04	0.00	0.01	0.27	0.38	1.16	0.15	0.62	0.30	0.92	0.97	1.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	355	770	1,308	1,287	1,251	1,187	1,176	1,054	465	438	450	483
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	216	75.2	84.9	29.2	102	85.8	61.9
(WY)	(1995)	(2006)	(2006)	(1981)	(1996)	(1996)	(1981)	(1987)	(1988)	(1968)	(1968)	(2004)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1965 - 2006	
Annual total	199,137.39		127,785.69			
Annual mean	546		350		850	
Highest annual mean					1,762	1973
Lowest annual mean					299	1972
Highest daily mean	4,710	Jan 7	4,450	Sep 25	7,940	Apr 25, 1973
Lowest daily mean	0.00	Jun 23	0.00	Oct 20 ^a	0.00	Nov 6, 1982
Annual seven-day minimum	0.00	Oct 20	0.00	Oct 20 ^a	0.00	Oct 14, 1991
Maximum peak flow			4,490	Sep 24 ^a	8,490	Jan 6, 1966
Maximum peak stage			17.69	Sep 24	21.88	Jan 6, 1966
Instantaneous low flow			0.00	Oct 19 ^a	0.00	Jan 1, 1965
Annual runoff (ac-ft)	395,000		253,500		616,100	
Annual runoff (cfsm)	0.778		0.499		1.21	
Annual runoff (inches)	10.57		6.78		16.48	
10 percent exceeds	1,750		1,150		2,760	
50 percent exceeds	141		55		290	
90 percent exceeds	0.00		0.00		35	

^a Occurred on multiple days