

Water-Data Report 2010

07077380 CACHE RIVER AT EGYPT, AR

White Basin
Cache Subbasin

LOCATION.--Lat 35°51'27", long 90°55'59" 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, 6,080 ft³/s, Dec. 28, gage height, 20.78 ft; minimum discharge, 0.00 ft³/s, on several days, gage height, 4.96 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	85	4,940	14	5,080	307	148	316	1,810	49	282	572	286
2	56	4,930	131	5,020	315	122	150	3,700	30	194	472	295
3	43	4,900	1,510	4,730	418	82	267	3,930	24	197	312	264
4	40	4,760	1,950	4,560	e970	59	678	3,710	43	240	203	208
5	17	4,600	1,750	e4,430	2,490	53	527	3,420	22	217	186	184
6	2.7	4,410	853	4,330	3,700	78	190	3,200	1.5	141	237	172
7	77	4,250	333	4,220	3,610	52	152	3,030	0.00	86	321	141
8	745	4,090	514	4,060	3,300	26	1,570	2,820	0.00	146	341	312
9	1,790	3,940	2,420	3,820	3,110	10	1,250	1,900	0.00	461	319	430
10	3,580	3,810	2,550	3,050	2,770	17	408	1,170	0.00	876	256	2,070
11	3,600	3,670	2,360	1,570	1,760	36	125	2,400	32	915	337	2,280
12	3,280	3,480	2,010	799	1,060	175	60	1,920	43	1,900	460	1,770
13	3,280	3,090	1,050	503	938	272	33	941	25	3,890	473	1,080
14	4,020	1,990	613	436	859	226	19	423	9.9	4,150	466	687
15	4,090	966	506	636	667	141	12	235	0.00	3,950	454	419
16	3,880	497	347	777	436	71	3.5	262	18	3,170	379	290
17	3,680	487	211	979	317	44	0.00	1,720	1.8	1,840	316	273
18	3,400	426	138	912	282	29	0.00	1,240	14	1,000	344	218
19	3,110	322	99	714	442	21	0.00	378	32	634	339	146
20	2,300	204	72	955	462	9.0	0.00	764	56	1,320	383	96
21	1,060	145	54	2,680	390	e58	0.00	2,250	48	1,300	466	66
22	713	93	40	3,200	836	976	0.00	2,280	33	778	506	50
23	2,900	59	93	2,960	860	1,700	0.90	1,370	32	474	441	37
24	3,350	47	3,530	2,930	595	1,790	1,500	464	46	317	380	35
25	3,120	32	5,000	2,790	382	1,750	3,180	418	97	236	349	29
26	2,940	27	5,320	2,690	269	3,380	2,820	549	850	304	374	25
27	2,860	26	5,590	1,850	196	3,340	1,770	551	1,820	736	367	23
28	3,330	21	5,670	1,030	165	3,090	664	489	1,530	820	349	29
29	3,140	19	5,570	802	---	2,570	279	184	950	670	312	23
30	4,160	17	5,420	e464	---	1,990	162	94	545	573	290	17
31	4,840	---	5,250	281	---	972	---	61	---	632	273	---
Total	73,488.7	60,248	60,968	73,258	31,906	23,287.0	16,136.40	47,683	6,352.20	32,449	11,277	11,955
Mean	2,371	2,008	1,967	2,363	1,140	751	538	1,538	212	1,047	364	398
Max	4,840	4,940	5,670	5,080	3,700	3,380	3,180	3,930	1,820	4,150	572	2,280
Min	2.7	17	14	281	165	9.0	0.00	61	0.00	86	186	17
Ac-ft	145,800	119,500	120,900	145,300	63,290	46,190	32,010	94,580	12,600	64,360	22,370	23,710
Cfs/m	3.38	2.86	2.81	3.37	1.63	1.07	0.77	2.19	0.30	1.49	0.52	0.57
In.	3.90	3.20	3.24	3.89	1.69	1.24	0.86	2.53	0.34	1.72	0.60	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	447	785	1,310	1,306	1,263	1,192	1,179	1,089	449	471	442	489
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 2009		Water Year 2010		Water Years 1965 - 2010	
Annual total	520,390.70		449,008.30			
Annual mean	1,426		1,230		867	
Highest annual mean					1,762	1973
Lowest annual mean					299	1972
Highest daily mean	5,670	Dec 28	5,670	Dec 28	7,940	Apr 25, 1973
Lowest daily mean	0.00	Jun 25	0.00	Apr 17 ^a	0.00	Nov 6, 1982 ^b
Annual seven-day minimum	0.00	Jun 25	0.13	Apr 17	0.00	Oct 14, 1991
Maximum peak flow			6,080	Dec 28	8,490	Jan 6, 1966
Maximum peak stage			20.78	Dec 28	21.88	Jan 6, 1966
Instantaneous low flow			0.00	Apr 17 ^a	0.00	Jan 1, 1965 ^b
Annual runoff (ac-ft)	1,032,000		890,600		628,100	
Annual runoff (cfsm)	2.03		1.75		1.24	
Annual runoff (inches)	27.62		23.83		16.81	
10 percent exceeds	3,960		3,700		2,820	
50 percent exceeds	630		462		292	
90 percent exceeds	26		25		33	

^a Occurred on several days^b Occurred on many days