

Water-Data Report 2007

**07077555 CACHE RIVER NEAR COTTON PLANT, AR**

White Basin  
Cache Subbasin

LOCATION.--Lat 35°02'08", long 91°19'21" referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.21, T.5 N., R.3 W., Woodruff County, AR, Hydrologic Unit 08020302, on left bank on downstream side of bridge on county road, 1.4 mi upstream from Roaring Slough, and 4.2 mi northwest of Cotton Plant.

DRAINAGE AREA.--1,172 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1987 to current year.

REVISED RECORDS.--WDR Arkansas 1989: 1988(M).

GAGE.--Water-stage recorder. Datum of gage is 164.17 ft above NGVD of 1929. Non-recording gage Oct 10, 1989 to Sep 27, 1990 at same site and datum.

REMARKS.--Water-discharge records fair. No estimated daily discharges. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,360 ft<sup>3</sup>/s, Jan 22, gage height, 19.20 ft; minimum discharge, 14 ft<sup>3</sup>/s, Jun 5, 6, gage height, 3.57 ft.

## 07077555 CACHE RIVER NEAR COTTON PLANT, AR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	919	2,090	2,160	1,520	5,090	1,360	286	479	35	429	149	193
2	1,140	2,050	2,030	1,710	5,040	1,330	260	479	26	506	151	196
3	1,350	2,080	1,900	1,880	4,960	1,390	221	462	20	545	167	200
4	1,520	2,160	1,750	2,010	4,820	1,530	252	416	17	579	192	205
5	1,660	2,290	1,600	2,110	4,580	1,700	308	364	15	629	216	246
6	1,780	2,420	1,450	2,170	4,230	1,840	320	337	14	700	233	310
7	1,870	2,510	1,320	2,260	3,870	1,890	315	353	18	831	238	340
8	1,930	2,560	1,230	2,320	3,550	1,900	288	469	28	1,050	230	386
9	1,980	2,560	1,210	2,310	3,220	1,850	256	633	34	1,310	215	487
10	2,020	2,520	1,290	2,270	2,900	1,750	261	792	33	1,590	196	639
11	2,060	2,460	1,380	2,210	2,670	1,630	386	987	34	1,830	178	769
12	2,080	2,360	1,480	2,160	2,510	1,490	539	1,190	34	1,960	159	884
13	2,100	2,270	1,490	2,200	2,380	1,330	551	1,340	40	2,040	142	1,080
14	2,110	2,210	1,450	2,400	2,240	1,150	569	1,440	69	2,010	129	1,300
15	2,120	2,290	1,380	2,810	2,090	989	559	1,460	110	1,920	116	1,490
16	2,140	2,380	1,270	3,510	1,970	852	503	1,440	142	1,790	109	1,670
17	2,160	2,430	1,140	4,160	1,860	720	463	1,350	159	1,640	111	1,800
18	2,160	2,450	1,010	4,890	1,730	578	460	1,230	169	1,470	110	1,860
19	2,150	2,440	939	5,580	1,610	452	498	1,100	199	1,290	113	1,860
20	2,130	2,410	971	5,970	1,530	369	563	969	218	1,060	118	1,810
21	2,080	2,370	1,090	6,240	1,500	323	642	837	211	832	121	1,720
22	2,010	2,390	1,210	6,240	1,530	278	702	697	198	625	125	1,590
23	1,950	2,460	1,260	6,150	1,550	246	723	563	164	443	130	1,440
24	1,950	2,550	1,250	6,000	1,570	227	700	397	152	298	142	1,260
25	2,000	2,630	1,230	5,870	1,620	208	656	264	153	214	156	1,030
26	2,080	2,650	1,190	5,710	1,590	190	585	183	173	176	172	794
27	2,150	2,600	1,140	5,580	1,530	177	483	128	223	155	178	555
28	2,210	2,520	1,090	5,480	1,440	166	416	97	269	136	178	330
29	2,230	2,410	1,090	5,310	---	153	423	76	310	140	181	185
30	2,210	2,290	1,200	5,230	---	147	457	58	356	151	187	122
31	2,150	---	1,370	5,160	---	174	---	47	---	150	192	---
<b>Total</b>	60,399	71,810	41,570	119,420	75,180	28,389	13,645	20,637	3,623	28,499	5,034	26,751
<b>Mean</b>	1,948	2,394	1,341	3,852	2,685	916	455	666	121	919	162	892
<b>Max</b>	2,230	2,650	2,160	6,240	5,090	1,900	723	1,460	356	2,040	238	1,860
<b>Min</b>	919	2,050	939	1,520	1,440	147	221	47	14	136	109	122
<b>Ac-ft</b>	119,800	142,400	82,450	236,900	149,100	56,310	27,060	40,930	7,190	56,530	9,980	53,060
<b>Cfsm</b>	1.66	2.04	1.14	3.29	2.29	0.78	0.39	0.57	0.10	0.78	0.14	0.76
<b>In.</b>	1.92	2.28	1.32	3.79	2.39	0.90	0.43	0.66	0.11	0.90	0.16	0.85

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	610	1,037	2,091	2,351	2,203	2,156	1,568	1,290	711	683	692	547
<b>Max</b>	2,067	3,211	5,102	6,779	5,238	5,759	3,585	3,595	2,026	1,413	2,591	1,570
<b>(WY)</b>	(1991)	(1997)	(2002)	(1991)	(1989)	(1989)	(1997)	(1991)	(2000)	(1994)	(1998)	(2003)
<b>Min</b>	55.9	16.6	24.5	203	377	303	387	217	116	274	162	201
<b>(WY)</b>	(1988)	(2000)	(2006)	(2006)	(2000)	(1996)	(2006)	(1987)	(1988)	(1990)	(2007)	(1987)

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## SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1987 - 2007	
<b>Annual total</b>	319,776		494,957			
<b>Annual mean</b>	876		1,356		1,334	
<b>Highest annual mean</b>					2,356	
<b>Lowest annual mean</b>					422	
<b>Highest daily mean</b>	2,650	Nov 26	6,240	Jan 21 <sup>a</sup>	9,770	Dec 28, 1987
<b>Lowest daily mean</b>	16	Jan 6	14	Jun 6	7.8	Nov 1, 2000
<b>Annual seven-day minimum</b>	17	Jan 3	20	Jun 2	8.6	Oct 28, 2000
<b>Maximum peak flow</b>			6,360	Jan 22	9,950	Dec 28, 1987
<b>Maximum peak stage</b>			19.20	Jan 22	20.23	Dec 21, 2001
<b>Instantaneous low flow</b>			14	Jun 6 <sup>a</sup>	7.8	Dec 1, 1999 <sup>b</sup>
<b>Annual runoff (ac-ft)</b>	634,300		981,700		966,300	
<b>Annual runoff (cfs)</b>	0.748		1.16		1.14	
<b>Annual runoff (inches)</b>	10.15		15.71		15.46	
<b>10 percent exceeds</b>	2,140		2,510		3,340	
<b>50 percent exceeds</b>	653		1,190		764	
<b>90 percent exceeds</b>	72		145		115	

<sup>a</sup> Occurred on multiple days<sup>b</sup> Also Nov 1-2, 2000