

Water-Data Report 2006

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

White Basin  
Cache Subbasin

LOCATION.--Lat 35°02'07", long 91°19'19" referenced to North American Datum of 1927, 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 Ark. 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 good except estimated daily discharges, which are fair. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft<sup>3</sup>/s, Mar 22, gage height, 14.30 ft; minimum discharge, 16 ft<sup>3</sup>/s, on several days, gage height, 2.99 ft.

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

**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	605	28	46	21	792	274	1,590	89	104	624	650	598
2	607	26	34	21	835	306	1,480	150	87	514	691	588
3	618	25	30	18	868	350	1,380	226	76	354	697	575
4	634	24	28	18	865	361	1,210	374	69	201	701	579
5	637	25	27	17	836	333	986	574	66	167	724	599
6	615	25	26	16	798	277	767	653	71	125	760	621
7	560	21	23	17	762	226	559	732	67	96	774	630
8	470	20	24	18	737	198	399	836	66	78	752	624
9	359	21	23	18	721	208	311	958	64	72	682	598
10	242	18	21	27	737	367	290	1,100	64	78	567	543
11	158	16	21	44	801	482	286	1,240	59	82	455	461
12	116	16	21	37	873	573	268	1,320	54	80	416	369
13	93	23	21	41	924	678	238	1,360	49	79	422	290
14	79	30	22	42	934	764	184	1,410	47	84	433	241
15	69	27	24	39	908	836	150	1,470	48	93	434	207
16	61	26	22	37	845	947	127	1,540	45	123	444	177
17	55	22	24	63	733	1,140	110	1,620	41	189	491	156
18	51	21	18	59	589	1,350	99	1,700	46	275	574	176
19	47	21	22	49	e440	1,560	88	1,740	48	380	666	190
20	42	20	28	76	e300	1,780	84	1,730	49	523	744	195
21	37	21	27	142	244	1,930	90	1,640	75	653	812	213
22	34	20	25	203	238	1,960	99	1,520	115	759	856	222
23	32	20	22	363	267	1,930	97	1,360	174	854	866	231
24	30	19	24	449	297	1,880	103	1,110	249	895	856	259
25	29	22	25	498	319	1,820	117	830	330	866	810	293
26	28	18	22	541	325	1,760	103	526	433	774	740	322
27	27	20	21	594	301	1,730	113	249	549	655	675	352
28	26	33	21	642	270	1,740	106	132	637	635	622	407
29	25	41	20	697	---	1,750	85	104	676	562	597	525
30	24	59	26	731	---	1,740	78	98	672	501	591	703
31	24	---	20	761	---	1,690	---	107	---	559	598	---
<b>Total</b>	6,434	728	758	6,299	17,559	32,940	11,597	28,498	5,130	11,930	20,100	11,944
<b>Mean</b>	208	24.3	24.5	203	627	1,063	387	919	171	385	648	398
<b>Max</b>	637	59	46	761	934	1,960	1,590	1,740	676	895	866	703
<b>Min</b>	24	16	18	16	238	198	78	89	41	72	416	156
<b>Ac-ft</b>	12,760	1,440	1,500	12,490	34,830	65,340	23,000	56,530	10,180	23,660	39,870	23,690
<b>Cfs/m</b>	0.18	0.02	0.02	0.17	0.54	0.91	0.33	0.78	0.15	0.33	0.55	0.34
<b>In.</b>	0.20	0.02	0.02	0.20	0.56	1.05	0.37	0.90	0.16	0.38	0.64	0.38

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	539	966	2,130	2,272	2,178	2,221	1,627	1,321	741	671	719	529
<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	332	201
<b>(WY)</b>	(1988)	(2000)	(2006)	(2006)	(2000)	(1996)	(2006)	(1987)	(1988)	(1990)	(2005)	(1987)

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

## SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1987 - 2006	
<b>Annual total</b>	344,078		153,917			
<b>Annual mean</b>	943		422		1,333	
<b>Highest annual mean</b>					2,356	
<b>Lowest annual mean</b>					422	
<b>Highest daily mean</b>	6,070	Jan 17	1,960	Mar 22	9,770	Dec 28, 1987
<b>Lowest daily mean</b>	16	Nov 11	16	Nov 11 <sup>a</sup>	7.8	Nov 1, 2000
<b>Annual seven-day minimum</b>	19	Nov 7	17	Jan 3	8.6	Oct 28, 2000
<b>Maximum peak flow</b>			1,970	Mar 22	9,950	Dec 28, 1987
<b>Maximum peak stage</b>			14.30	Mar 22	20.23	Dec 21, 2001
<b>Instantaneous low flow</b>			16	Nov 11 <sup>a</sup>	7.8	Dec 1, 1999 <sup>b</sup>
<b>Annual runoff (ac-ft)</b>	682,500		305,300		965,400	
<b>Annual runoff (cfs)</b>	0.804		0.360		1.14	
<b>Annual runoff (inches)</b>	10.92		4.89		15.45	
<b>10 percent exceeds</b>	2,560		951		3,360	
<b>50 percent exceeds</b>	379		249		754	
<b>90 percent exceeds</b>	24		22		113	

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