

02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'42", Burke County, Hydrologic Unit 03050101, on right bank 12 ft downstream of bridge on Secondary Road 1438, 0.2 mi downstream of Sims Branch, and 0.8 mi northeast of Arneys Store.

DRAINAGE AREA.--201 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974-84. May 1985 to current year.

REVISED RECORDS.--WDR NC-87-1: 1985-86 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 11,000 ft³/s on basis of slope-area measurement; maximum gage height from high-water mark in gage house. Minimum discharge for period of record also occurred Sept. 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	168	188	434	181	476	424	e460	392	477	821	836
2	150	162	180	435	181	461	408	468	349	2,360	624	604
3	130	152	176	487	176	426	387	435	396	1,550	673	549
4	115	148	182	480	195	392	368	398	593	831	741	695
5	105	158	318	432	208	376	371	510	451	938	598	611
6	96	314	345	398	181	589	354	751	389	1,200	542	525
7	91	239	264	362	195	550	483	661	1,180	1,080	999	480
8	89	204	238	341	186	469	462	555	1,330	791	951	448
9	85	189	236	322	173	432	689	485	845	706	815	417
10	87	185	234	300	179	397	2,350	444	681	664	e1,130	390
11	124	660	803	276	185	367	2,460	418	588	595	e970	370
12	131	747	683	257	179	350	1,090	397	565	532	e840	351
13	106	645	770	247	173	334	816	368	564	539	666	340
14	92	473	961	239	175	321	702	351	564	547	597	325
15	117	380	670	228	293	305	636	e344	621	500	794	326
16	812	570	541	217	303	1,000	582	e374	889	511	801	321
17	439	911	452	e211	297	792	538	406	2,010	496	657	296
18	257	643	392	e211	287	662	2,580	451	1,020	488	580	287
19	198	492	352	e207	352	666	1,520	398	1,230	606	526	280
20	171	409	593	e207	344	1,470	986	371	866	486	487	268
21	158	391	494	209	332	1,210	840	362	705	436	479	260
22	171	366	417	198	1,840	824	754	524	620	495	487	282
23	148	311	372	198	1,600	693	678	595	542	564	467	973
24	136	282	595	e187	820	616	625	578	491	434	437	423
25	136	262	754	e180	659	544	587	526	445	387	401	345
26	163	241	574	e172	565	496	581	568	414	356	377	320
27	151	227	479	e168	539	456	524	625	412	339	358	336
28	150	212	424	e168	536	424	483	491	392	329	622	440
29	185	203	383	176	---	417	458	441	385	330	454	330
30	186	198	347	205	---	543	437	418	381	520	602	311
31	178	---	321	194	---	479	---	422	---	431	990	---
TOTAL	5,341	10,542	13,738	8,346	11,334	17,537	24,173	14,595	20,310	20,518	20,486	12,739
MEAN	172	351	443	269	405	566	806	471	677	662	661	425
MAX	812	911	961	487	1,840	1,470	2,580	751	2,010	2,360	1,130	973
MIN	85	148	176	168	173	305	354	344	349	329	358	260
CFSM	0.86	1.75	2.20	1.34	2.01	2.81	4.01	2.34	3.37	3.29	3.29	2.11
IN.	0.99	1.95	2.54	1.54	2.10	3.25	4.47	2.70	3.76	3.80	3.79	2.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	254	312	309	426	405	541	469	340	326	255	299	231
MEAN	890	938	602	1,388	838	1,151	883	595	963	662	1,070	808
(WY)	(1991)	(1993)	(1997)	(1995)	(1990)	(1993)	(1987)	(1993)	(1992)	(2003)	(1994)	(1989)
MIN	79.1	104	113	170	138	179	206	128	94.5	75.5	42.6	88.7
(WY)	(2001)	(2002)	(1989)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(2002)	(1999)

SANTEE RIVER BASIN

02140991 JOHNS RIVER AT ARNEYS STORE, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1985 - 2003	
ANNUAL TOTAL	77,284		179,659			
ANNUAL MEAN	212		492		348	
HIGHEST ANNUAL MEAN					502	1993
LOWEST ANNUAL MEAN					164	2002
HIGHEST DAILY MEAN	1,980	Sep 27	2,580	Apr 18	16,100	Jan 15, 1995
LOWEST DAILY MEAN	19	Sep 13	85	Oct 9	19	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	24	Sep 8	95	Oct 4	24	Sep 8, 2002
MAXIMUM PEAK FLOW			4,880	Apr 10	42,300*	Aug 17, 1994
MAXIMUM PEAK STAGE			10.73	Apr 10	25.23*	Aug 17, 1994
INSTANTANEOUS LOW FLOW			84	Oct 9	19*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	1.05		2.45		1.73	
ANNUAL RUNOFF (INCHES)	14.30		33.25		23.50	
10 PERCENT EXCEEDS	430		827		620	
50 PERCENT EXCEEDS	160		426		247	
90 PERCENT EXCEEDS	49		176		100	

e Estimated.
 * See REMARKS.

