

02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'43", 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). WDR NC-04-1: 1994(M), 1995(M).

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 12,500 ft³/s on basis of slope-area measurement; maximum gage height from high-water mark. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	388	559	450	391	551	588	380	243	432	493	503
2	615	375	512	433	372	437	1,070	357	658	499	374	431
3	568	374	484	419	411	398	977	346	471	701	327	390
4	534	749	461	409	429	379	794	335	378	3,180	303	358
5	495	739	439	401	396	388	682	336	326	845	287	339
6	469	558	434	393	384	406	599	342	294	558	367	318
7	447	496	449	380	372	391	554	323	318	2,910	388	307
8	423	455	424	383	369	422	692	312	659	2,550	534	298
9	410	417	501	366	369	393	636	298	444	e1,000	601	290
10	407	397	709	354	366	368	550	288	561	e760	535	275
11	388	385	613	349	348	360	517	257	576	e740	480	266
12	379	663	543	341	336	352	495	268	523	799	393	256
13	560	767	503	361	334	343	588	281	2,070	664	365	252
14	483	592	466	2,860	363	364	1,130	306	1,400	576	571	242
15	403	522	437	1,040	347	347	784	396	747	526	457	234
16	374	489	421	755	335	351	644	360	e595	591	391	229
17	357	461	410	634	328	398	571	296	e523	576	423	243
18	343	438	402	551	315	375	531	281	e461	560	3,630	230
19	364	423	393	513	303	360	499	313	e413	901	1,650	217
20	405	408	370	498	309	346	471	383	e376	1,220	980	211
21	360	391	363	476	373	336	445	310	359	726	733	213
22	363	381	362	450	362	330	470	274	325	586	e620	206
23	407	448	1,760	e433	328	612	517	275	297	517	e540	208
24	419	863	1,230	e427	356	593	434	266	276	441	499	197
25	390	1,240	813	406	351	495	414	249	262	403	448	192
26	366	761	679	398	327	453	396	241	255	369	415	223
27	364	630	597	384	321	450	405	234	264	345	390	240
28	404	608	541	357	521	2,260	375	230	339	343	374	205
29	418	536	513	363	---	1,430	410	226	442	482	361	203
30	464	502	492	428	---	887	428	223	400	394	619	192
31	418	---	469	425	---	692	---	216	---	580	828	---
TOTAL	13,481	16,456	17,349	16,437	10,116	16,267	17,666	9,202	15,255	25,774	19,376	7,968
MEAN	435	549	560	530	361	525	589	297	508	831	625	266
MAX	684	1,240	1,760	2,860	521	2,260	1,130	396	2,070	3,180	3,630	503
MIN	343	374	362	341	303	330	375	216	243	343	287	192
CFSM	2.16	2.73	2.78	2.64	1.80	2.61	2.93	1.48	2.53	4.14	3.11	1.32
IN.	2.49	3.05	3.21	3.04	1.87	3.01	3.27	1.70	2.82	4.77	3.59	1.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	264	346	331	425	405	529	472	338	338	282	310	321
MAX	890	938	602	1,388	838	1,151	883	595	963	831	1,070	2,087
(WY)	(1991)	(1993)	(1997)	(1995)	(1990)	(1993)	(1987)	(1993)	(1992)	(2005)	(1994)	(2004)
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	191,292		185,347		364	
ANNUAL MEAN	523		508		164	
HIGHEST ANNUAL MEAN					521	2004
LOWEST ANNUAL MEAN					164	2002
HIGHEST DAILY MEAN	19,400	Sep 8	3,630	Aug 18	19,400	Sep 8, 2004
LOWEST DAILY MEAN	140	Aug 11	192	Sep 25	19	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	156	Aug 5	206	Sep 19	24	Sep 8, 2002
MAXIMUM PEAK FLOW			8,110	Jul 7	39,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			13.01	Jul 7	28.60*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			186*	Sep 25	19*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.60		2.53		1.81	
ANNUAL RUNOFF (INCHES)	35.40		34.30		24.63	
10 PERCENT EXCEEDS	701		739		630	
50 PERCENT EXCEEDS	364		410		263	
90 PERCENT EXCEEDS	219		275		104	

* See REMARKS.

e Estimated.

