

SANTÉE RIVER BASIN

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).

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft above sea level. 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 Aug. 20, 1988.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	84	105	e113	146	157	582	129	e120	139	337	101
2	86	84	104	e110	137	147	480	133	176	139	362	108
3	84	82	102	e107	130	143	418	126	134	204	289	384
4	e82	82	100	e104	125	188	381	119	113	192	300	553
5	e80	86	97	e102	125	221	341	118	110	277	e260	277
6	e78	85	96	102	122	202	315	118	e107	195	e230	198
7	76	86	96	e102	119	181	297	114	104	150	187	168
8	72	89	94	113	117	169	276	109	100	140	167	148
9	71	144	94	130	116	165	256	119	98	279	150	136
10	73	551	94	114	121	156	239	116	92	202	139	145
11	75	179	94	e107	117	150	226	107	141	162	179	177
12	77	104	94	108	116	147	218	113	98	135	424	136
13	74	84	93	108	116	209	248	109	87	126	240	122
14	72	82	104	102	125	188	229	97	148	120	232	117
15	71	89	131	102	130	226	205	93	134	109	212	112
16	71	89	131	102	128	358	202	91	136	102	160	105
17	71	91	525	100	145	289	188	92	100	e94	139	100
18	72	93	281	122	142	245	187	109	84	e90	131	97
19	73	94	199	497	123	218	183	103	77	99	122	98
20	77	94	e176	729	118	237	177	339	e72	e240	169	149
21	79	94	e161	357	116	982	177	170	81	e170	127	138
22	e79	94	e147	253	121	706	169	141	78	e120	107	110
23	e83	98	e144	210	125	520	162	e145	279	104	102	100
24	e83	100	e134	187	135	416	160	e125	122	96	118	142
25	e80	116	e128	171	194	365	158	135	93	e220	114	175
26	83	238	e125	155	284	308	149	160	275	601	97	118
27	89	155	e119	149	197	271	144	150	447	391	100	105
28	87	130	e116	139	172	244	139	131	224	640	109	97
29	89	121	e116	137	---	440	132	125	232	e500	94	92
30	88	113	e116	162	---	1530	130	114	151	e660	93	88
31	88	---	e113	175	---	750	---	e110	---	426	104	---
TOTAL	2452	3631	4229	5269	3862	10528	7168	3960	4213	7122	5594	4596
MEAN	79.1	121	136	170	138	340	239	128	140	230	180	153
MAX	89	551	525	729	284	1530	582	339	447	660	424	553
MIN	71	82	93	100	116	143	130	91	72	90	93	88
CFSM	.39	.60	.68	.85	.69	1.69	1.19	.64	.70	1.14	.90	.76
IN.	.45	.67	.78	.98	.71	1.95	1.33	.73	.78	1.32	1.04	.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	268	323	308	448	416	552	461	344	319	240	293	223					
MAX	890	938	602	1388	838	1151	883	595	963	570	1070	808					
(WY)	1991	1993	1997	1995	1990	1993	1987	1993	1992	1989	1994	1989					
MIN	79.1	108	113	170	138	179	206	128	96.9	75.5	65.5	88.7					
(WY)	2001	1999	1989	2001	2001	1988	1986	2001	1988	1988	1988	1999					

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL TOTAL	73217		62624			
ANNUAL MEAN	200		172		350	
HIGHEST ANNUAL MEAN					502	
LOWEST ANNUAL MEAN					169	
HIGHEST DAILY MEAN	1570	Mar 20	1530	Mar 30	16100	Jan 15 1995
LOWEST DAILY MEAN	58	Jul 22	71	Oct 9	35	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	68	Jul 16	72	Oct 13	45	Aug 14 1988
MAXIMUM PEAK FLOW			2520		42300*	
MAXIMUM PEAK STAGE			6.04		25.23*	
INSTANTANEOUS LOW FLOW			68		33*	
ANNUAL RUNOFF (CFSM)	1.00		.85		1.74	
ANNUAL RUNOFF (INCHES)	13.55		11.59		23.66	
10 PERCENT EXCEEDS	380		292		605	
50 PERCENT EXCEEDS	156		126		246	
90 PERCENT EXCEEDS	83		86		104	

e Estimated.

* See REMARKS.

02140991 JOHNS RIVER AT ARNEYS STORE, NC--Continued

