

SANTEE 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 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 Aug. 20, 1988. Minimum discharge for period of record and current water year also occurred Sept. 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	94	175	124	244	151	398	158	99	105	47	57
2	85	94	130	120	225	169	344	157	91	96	e42	63
3	82	95	119	120	212	370	312	164	86	178	e41	51
4	79	92	114	e119	203	246	284	172	117	129	e40	46
5	79	90	111	e119	196	200	266	181	149	120	e38	43
6	79	87	110	132	192	197	252	155	139	93	e36	37
7	79	86	108	168	313	186	238	143	129	76	e32	32
8	77	86	107	134	408	181	233	153	107	64	e30	30
9	78	86	105	122	306	178	247	143	93	59	e30	28
10	79	86	116	124	280	181	368	133	85	56	e29	26
11	80	85	474	130	273	169	288	131	80	56	e29	24
12	85	84	275	126	247	179	263	128	76	56	e29	21
13	111	84	225	121	233	380	314	130	72	57	e28	19
14	370	84	250	115	218	466	322	164	109	67	28	22
15	379	82	206	112	210	341	291	136	103	210	28	e70
16	177	84	180	110	203	297	270	123	79	114	47	e200
17	137	83	183	109	198	724	254	117	71	77	104	92
18	126	81	372	108	189	972	250	176	67	64	73	59
19	119	79	262	168	183	646	235	151	72	57	56	56
20	115	79	215	462	183	524	221	123	98	56	49	55
21	111	79	189	290	189	452	212	119	70	53	40	52
22	107	78	174	230	177	390	202	118	62	49	36	80
23	105	78	165	523	170	342	189	112	59	130	33	134
24	104	158	194	767	167	314	183	108	59	116	34	94
25	104	287	170	617	163	287	197	105	58	120	33	72
26	97	218	157	488	159	288	189	98	85	165	36	357
27	94	142	148	407	157	356	174	117	135	125	46	1980
28	94	122	143	350	153	282	170	176	146	84	76	839
29	94	112	137	311	---	264	174	118	117	67	56	370
30	95	118	133	281	---	272	160	103	121	57	48	240
31	95	---	129	259	---	321	---	99	---	49	48	---
TOTAL	3602	3113	5576	7366	6051	10325	7500	4211	2834	2805	1322	5249
MEAN	116.2	103.8	179.9	237.6	216.1	333.1	250.0	135.8	94.47	90.48	42.65	175.0
MAX	379	287	474	767	408	972	398	181	149	210	104	1980
MIN	77	78	105	108	153	151	160	98	58	49	28	19
CFSM	0.58	0.52	0.89	1.18	1.08	1.66	1.24	0.68	0.47	0.45	0.21	0.87
IN.	0.67	0.58	1.03	1.36	1.12	1.91	1.39	0.78	0.52	0.52	0.24	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	258.7	310.0	300.7	435.2	404.7	539.5	448.7	332.4	306.3	232.1	279.0	220.3						
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	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						

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1985 - 2002
ANNUAL TOTAL	64603	59954	
ANNUAL MEAN	177.0	164.3	339.1
HIGHEST ANNUAL MEAN			502
LOWEST ANNUAL MEAN			164
HIGHEST DAILY MEAN	1530	Mar 30	1980
LOWEST DAILY MEAN	72	Jun 20	19
ANNUAL SEVEN-DAY MINIMUM	79	Oct 4	24
MAXIMUM PEAK FLOW			3590
MAXIMUM PEAK STAGE			8.15
INSTANTANEOUS LOW FLOW			19*
ANNUAL RUNOFF (CFSM)	0.88	0.82	1.69
ANNUAL RUNOFF (INCHES)	11.96	11.10	22.92
10 PERCENT EXCEEDS	303	312	595
50 PERCENT EXCEEDS	133	121	240
90 PERCENT EXCEEDS	88	49	99

e Estimated.

* See REMARKS.

02140991 JOHNS RIVER AT ARNEYS STORE, NC--Continued

