

## SANTEE RIVER BASIN

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°09'31", long 80°42'48", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Secondary Road 3168, 4.0 mi southwest of Mint Hill.

DRAINAGE AREA.--8.37 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 612.56 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those above 500 ft<sup>3</sup>/s, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 500 ft<sup>3</sup>/s by step-backwater analysis. No flow also occurred Aug. 14-15, 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	0.10	0.12	0.18	0.24	2.4	1.1	24	1.7	0.76	0.09	0.02	5.5
2	0.12	0.16	0.13	0.28	1.5	30	4.3	0.88	0.53	0.14	0.06	1.4
3	0.11	0.11	0.10	0.58	1.3	24	3.5	1.4	0.43	0.07	0.23	0.56
4	0.11	0.09	0.10	0.81	1.3	5.6	2.8	4.7	0.37	0.05	0.07	0.35
5	0.14	0.07	0.12	0.87	1.3	3.0	2.2	1.5	0.33	0.05	0.03	0.27
6	0.87	0.09	0.11	14	1.7	2.3	2.3	0.95	2.8	0.04	0.02	0.22
7	0.67	0.08	0.11	3.2	15	2.1	1.8	0.80	2.1	0.03	0.01	0.19
8	0.25	0.06	0.12	1.4	12	1.9	1.8	0.70	0.56	0.03	0.01	0.17
9	0.19	0.06	0.12	1.1	3.4	1.8	1.8	0.63	0.39	0.03	0.01	0.30
10	0.62	0.06	8.3	0.99	2.5	1.7	2.3	0.58	0.35	0.02	0.01	0.21
11	0.23	0.07	5.9	0.76	2.1	1.5	1.9	0.87	0.33	0.02	0.01	0.11
12	0.23	0.06	0.69	0.72	1.8	2.9	1.8	0.58	0.29	0.02	0.01	0.09
13	0.33	0.06	0.46	1.0	1.6	5.3	1.8	11	0.27	0.04	0.00	0.07
14	1.8	0.07	0.55	0.72	1.4	3.0	1.7	2.3	0.24	0.58	0.00	0.19
15	0.58	0.07	0.46	0.60	1.3	2.2	1.5	0.81	0.24	0.40	0.00	8.3
16	0.15	0.07	0.26	0.58	1.2	1.9	1.4	0.63	0.21	0.12	1.6	9.0
17	0.10	0.07	0.49	0.54	1.2	10	1.3	0.54	0.19	0.06	7.7	0.79
18	0.12	0.06	2.4	0.55	1.1	4.7	1.2	1.7	0.16	0.03	0.82	0.49
19	0.16	0.06	0.50	34	1.1	2.8	1.1	0.64	0.19	0.03	0.12	0.43
20	0.20	0.06	0.83	14	1.1	2.9	1.1	0.51	0.18	0.02	0.05	0.46
21	0.26	0.06	0.24	4.9	1.1	15	1.1	0.49	0.14	0.02	0.03	0.41
22	0.30	0.06	0.19	3.0	1.1	4.8	1.0	0.48	0.13	0.02	0.02	0.39
23	0.23	0.07	0.21	65	1.1	2.9	0.91	0.44	0.15	0.05	0.03	0.40
24	0.25	0.76	0.33	7.4	1.0	2.3	0.89	0.43	0.16	0.06	0.02	0.57
25	2.5	0.43	0.28	24	1.1	2.1	0.98	0.40	0.50	0.12	0.03	0.35
26	0.31	0.22	0.22	4.4	1.1	2.3	0.86	0.37	0.46	0.09	0.17	1.7
27	0.13	0.15	0.22	2.5	1.1	2.5	0.86	0.36	0.29	0.04	0.11	1.3
28	0.10	0.12	0.21	1.9	1.1	1.9	0.90	0.36	0.16	0.12	0.24	1.4
29	0.10	0.13	0.23	1.7	---	1.8	0.84	0.34	0.14	0.09	0.07	0.60
30	0.11	0.18	0.23	1.5	---	2.1	0.71	13	0.11	0.03	0.04	0.47
31	0.11	---	0.23	1.6	---	14	---	2.0	---	0.02	139	---
TOTAL	11.48	3.73	24.52	194.84	65.0	162.4	70.65	52.09	13.16	2.53	150.54	36.69
MEAN	0.370	0.124	0.791	6.285	2.321	5.239	2.355	1.680	0.439	0.082	4.856	1.223
MAX	2.5	0.76	8.3	65	15	30	24	13	2.8	0.58	139	9.0
MIN	0.10	0.06	0.10	0.24	1.0	1.1	0.71	0.34	0.11	0.02	0.00	0.07
CFSM	0.04	0.01	0.09	0.75	0.28	0.63	0.28	0.20	0.05	0.01	0.58	0.15
IN.	0.05	0.02	0.11	0.87	0.29	0.72	0.31	0.23	0.06	0.01	0.67	0.16

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	3.663	1.148	1.347	5.427	6.109	7.272	3.617	1.952	1.470	1.291	1.677	2.856
MAX	10.1	1.88	2.27	7.87	12.8	11.2	5.87	2.39	2.15	2.64	4.86	6.58
(WY)	2000	2000	2000	2000	2000	2001	2000	2001	2000	1999	2002	2000
MIN	0.37	0.12	0.79	2.13	2.32	5.24	2.35	1.68	0.44	0.082	0.21	1.22
(WY)	2002	2002	2002	2001	2002	2002	2002	2002	2002	2002	2001	2002

## SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	796.27		787.63			
ANNUAL MEAN	2.182		2.158		3.134	
HIGHEST ANNUAL MEAN					4.92	2000
LOWEST ANNUAL MEAN					2.16	2002
HIGHEST DAILY MEAN	94	Mar 29	139	Aug 31	158	Oct 11 1999
LOWEST DAILY MEAN	0.02	Aug 27	0.00	Aug 13	0.00	Aug 13 2002
ANNUAL SEVEN-DAY MINIMUM	0.02	Aug 24	0.01	Aug 9	0.01	Aug 9 2002
MAXIMUM PEAK FLOW			904*		904* Aug 31 2002	
MAXIMUM PEAK STAGE			7.35		7.35 Aug 31 2002	
INSTANTANEOUS LOW FLOW			0.00*		0.00* Aug 13 2002	
ANNUAL RUNOFF (CFSM)	0.26		0.26		0.37	
ANNUAL RUNOFF (INCHES)	3.54		3.50		5.09	
10 PERCENT EXCEEDS	3.7		3.0		5.5	
50 PERCENT EXCEEDS	0.83		0.46		1.0	
90 PERCENT EXCEEDS	0.07		0.05		0.10	

\* See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

