

SANTEE RIVER BASIN

02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'15", long 81°52'20", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 600 ft<sup>3</sup>/s, which are poor. Maximum discharge for period of record from rating curve extended above 600 ft<sup>3</sup>/s by logarithmic plotting.

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	44	33	39	37	71	49	83	54	36	26	13	16
2	41	33	35	36	65	68	79	52	30	22	13	15
3	39	33	33	37	62	129	75	49	28	21	13	14
4	37	33	33	35	60	89	69	65	28	27	12	13
5	35	31	33	35	56	76	66	62	43	23	11	12
6	36	31	33	49	58	71	64	52	39	20	10	10
7	35	31	33	56	97	68	61	49	93	19	9.7	9.6
8	33	31	34	45	141	65	60	52	45	18	9.2	9.2
9	33	31	33	44	111	63	63	47	36	17	8.9	8.6
10	33	31	41	43	96	62	74	44	32	16	8.7	7.9
11	33	31	87	41	86	57	65	51	30	17	8.4	7.3
12	34	31	61	40	77	63	65	46	28	17	8.0	6.6
13	35	31	52	39	72	114	83	51	27	17	7.6	6.8
14	54	31	51	38	67	128	85	55	28	65	7.2	10
15	59	31	47	38	64	104	78	44	28	36	7.4	30
16	40	31	43	37	63	92	72	41	26	28	41	53
17	35	31	46	37	60	121	89	39	24	21	25	26
18	35	30	95	37	57	156	88	41	23	19	21	21
19	35	31	72	50	56	125	71	39	25	18	18	21
20	35	30	59	102	57	112	65	37	22	16	16	20
21	35	30	51	88	59	111	62	37	21	16	15	20
22	35	30	48	81	55	100	58	38	20	15	14	24
23	34	31	47	252	53	91	55	37	20	17	13	44
24	34	67	49	250	52	85	52	35	20	16	12	26
25	34	50	44	229	51	82	56	35	19	25	12	25
26	32	41	42	169	e51	80	53	34	23	20	15	61
27	31	37	41	127	51	83	51	36	48	25	17	142
28	31	34	38	104	e50	73	50	41	38	19	16	91
29	32	33	38	92	---	70	49	34	28	18	16	50
30	33	36	36	81	---	80	46	33	25	15	16	38
31	33	---	37	74	---	85	---	33	---	14	16	---
TOTAL	1125	1015	1431	2423	1898	2752	1987	1363	933	663	430.1	838.0
MEAN	36.29	33.83	46.16	78.16	67.79	88.77	66.23	43.97	31.10	21.39	13.87	27.93
MAX	59	67	95	252	141	156	89	65	93	65	41	142
MIN	31	30	33	35	50	49	46	33	19	14	7.2	6.6
CFSM	0.42	0.39	0.54	0.91	0.79	1.03	0.77	0.51	0.36	0.25	0.16	0.32
IN.	0.49	0.44	0.62	1.05	0.82	1.19	0.86	0.59	0.40	0.29	0.19	0.36

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	44.59	50.16	58.23	78.70	81.87	104.1	87.55	54.44	40.67	40.36	24.25	41.23
MAX	72.6	72.9	78.7	115	128	120	111	78.2	57.5	57.4	32.1	77.1
(WY)	1999	1999	1999	1999	1999	2000	2000	1999	1999	2001	1999	2001
MIN	25.5	33.8	46.2	50.8	57.7	88.8	66.2	34.4	31.1	21.4	13.9	27.9
(WY)	2001	2002	2002	2001	2001	2002	2002	2001	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

ANNUAL TOTAL	19393	16858.1	
ANNUAL MEAN	53.13	46.19	
HIGHEST ANNUAL MEAN			75.9
LOWEST ANNUAL MEAN			46.2
HIGHEST DAILY MEAN	498	Sep 3	252
LOWEST DAILY MEAN	17	Aug 29	6.6
ANNUAL SEVEN-DAY MINIMUM	18	Aug 23	8.0
MAXIMUM PEAK FLOW			522
MAXIMUM PEAK STAGE			4.89
INSTANTANEOUS LOW FLOW			6.1
ANNUAL RUNOFF (CFSM)	0.62		0.54
ANNUAL RUNOFF (INCHES)	8.37		7.28
10 PERCENT EXCEEDS	87		85
50 PERCENT EXCEEDS	40		37
90 PERCENT EXCEEDS	27		15

e Estimated.  
\* See REMARKS.

02150495 SECOND BROAD RIVER NEAR LOGAN, NC--Continued

