

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 mi².

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 sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those above 600 ft³/s, which are fair. Maximum discharge for period of record and current water year from rating curve extended above 600 ft³/s by logarithmic plotting. Minimum discharge for period of record and current water year also occurred Aug. 30, 31, 2000 and Aug. 24, 26, 27, 28, 29, 30, 2001.

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	26	26	33	e39	48	68	157	42	42	34	54	21
2	26	26	33	e39	46	63	97	42	50	31	46	22
3	26	26	33	e39	44	62	115	40	34	290	41	498
4	26	26	32	e39	45	75	106	39	30	85	41	213
5	26	28	32	e38	44	77	95	38	29	81	41	98
6	26	27	31	38	43	70	89	37	27	52	37	64
7	25	27	31	38	42	65	83	36	30	42	33	52
8	24	28	31	43	41	60	79	36	31	41	30	45
9	23	42	30	42	42	58	74	37	39	44	28	40
10	24	83	30	38	46	54	70	36	32	39	27	41
11	25	41	29	39	42	53	67	34	29	34	27	39
12	25	35	31	41	46	54	65	33	27	31	25	34
13	25	34	33	40	47	69	65	32	26	35	25	32
14	25	34	40	39	55	59	63	30	30	32	24	34
15	25	33	41	39	53	104	61	30	38	28	22	35
16	24	33	51	39	52	157	60	30	49	26	22	31
17	24	35	227	38	87	112	55	29	31	25	23	30
18	24	33	96	42	78	90	53	30	27	25	26	30
19	24	33	71	82	67	79	51	28	24	35	22	30
20	24	34	59	152	61	91	50	28	23	75	20	90
21	25	32	54	89	57	328	50	36	23	41	19	55
22	25	31	51	71	59	244	49	35	24	34	18	43
23	26	31	e48	62	57	165	48	34	32	30	18	38
24	26	31	e46	58	53	123	48	29	25	31	19	211
25	27	55	45	53	89	101	54	43	27	56	18	172
26	27	71	42	49	110	87	49	43	111	113	18	92
27	27	45	43	49	86	77	46	33	80	96	18	68
28	27	40	42	46	76	72	45	32	43	83	18	58
29	27	37	41	46	---	158	43	36	38	71	17	50
30	27	35	40	55	---	460	41	31	34	80	19	46
31	28	---	e40	53	---	208	---	28	---	60	20	---
TOTAL	789	1092	1486	1575	1616	3543	2028	1067	1085	1780	816	2312
MEAN	25.5	36.4	47.9	50.8	57.7	114	67.6	34.4	36.2	57.4	26.3	77.1
MAX	28	83	227	152	110	460	157	43	111	290	54	498
MIN	23	26	29	38	41	53	41	28	23	25	17	21
CFSM	.30	.42	.56	.59	.67	1.33	.78	.40	.42	.67	.31	.89
IN.	.34	.47	.64	.68	.70	1.53	.88	.46	.47	.77	.35	1.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	47.4	55.6	62.2	78.9	86.5	109	94.7	57.9	43.9	46.7	27.7	45.7
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	36.4	47.9	50.8	57.7	92.9	67.6	34.4	36.2	30.7	24.7	29.0
(WY)	2001	2001	2001	2001	2001	1999	2001	2001	2001	2000	2000	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	20452	19189	
ANNUAL MEAN	55.9	52.6	62.9
HIGHEST ANNUAL MEAN			75.9
LOWEST ANNUAL MEAN			52.6
HIGHEST DAILY MEAN	1030	Mar 20	498
LOWEST DAILY MEAN	17	Aug 30	17
ANNUAL SEVEN-DAY MINIMUM	19	Aug 25	18
MAXIMUM PEAK FLOW			1340*
MAXIMUM PEAK STAGE			7.94
INSTANTANEOUS LOW FLOW			17*
ANNUAL RUNOFF (CFSM)	.65	.61	.73
ANNUAL RUNOFF (INCHES)	8.83	8.28	9.91
10 PERCENT EXCEEDS	93	88	104
50 PERCENT EXCEEDS	42	39	52
90 PERCENT EXCEEDS	24	25	26

e Estimated.
* See REMARKS.

02150495 SECOND BROAD RIVER NEAR LOGAN, NC--Continued

