02112360 MITCHELL RIVER NEAR STATE ROAD, NC

LOCATION.--Lat 36°18'42", long 80°48'26", Surry County, Hydrologic Unit 03040101, on right bank 280 ft upstream from bridge on Secondary Road 1001, 1.8 mi upstream from Grass Creek, and 3.3 mi east of State Road.

DRAINAGE AREA.--78.8 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 927.12 ft above sea level. Prior to Aug. 29, 1964, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred July 17, 23, 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident; estimated discharge, 9,000 ft^3/s. A discharge of 16 ft^3/s was measured on Sept. 19, 1956.

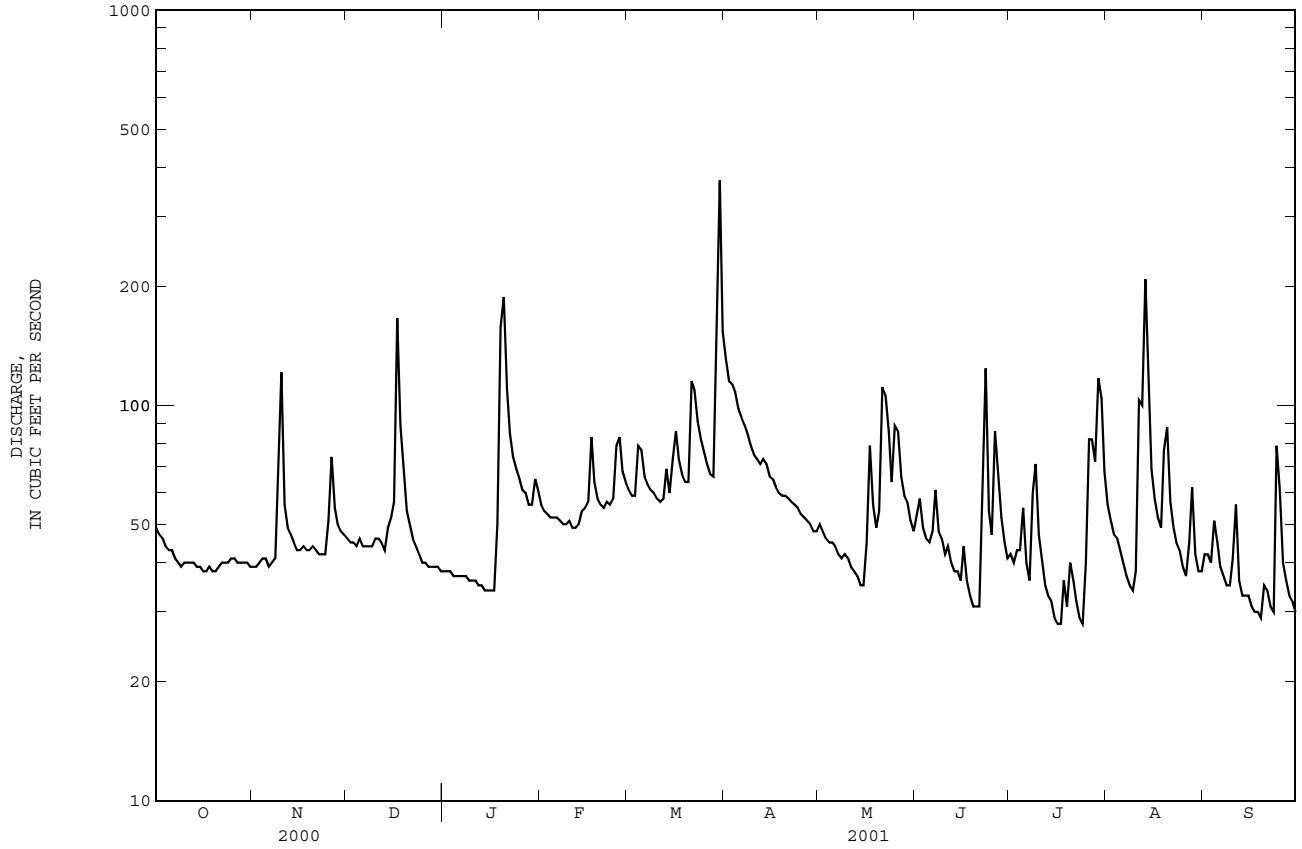
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	39	46	e38	56	61	131	50	53	42	56	42
2	47	39	45	e38	54	59	115	48	58	40	51	42
3	46	40	45	e38	53	59	113	46	49	43	47	40
4	44	41	44	e37	52	79	108	45	46	43	46	51
5	43	41	46	e37	52	77	98	45	45	55	43	45
6	43	39	44	e37	52	66	93	44	48	40	40	39
7	41	40	44	e37	51	63	89	42	61	36	37	37
8	40	41	44	e37	50	61	84	41	48	60	35	35
9	39	68	44	e36	50	60	79	42	46	71	34	35
10	40	121	46	e36	51	58	75	41	42	47	38	41
11	40	56	46	e36	49	57	73	39	44	41	103	56
12	40	49	45	e35	49	58	71	38	40	35	100	36
13	40	47	43	e35	50	69	73	37	38	33	208	33
14	39	45	49	e34	54	60	71	35	38	32	129	33
15	39	43	52	e34	55	73	66	35	36	29	69	33
16	38	43	57	e34	57	86	65	45	44	28	58	31
17	38	44	166	e34	83	73	62	79	36	28	52	30
18	39	43	89	e50	64	67	60	56	33	36	49	30
19	38	43	e70	158	58	64	59	49	31	31	77	29
20	38	44	e54	188	56	64	59	54	31	40	88	35
21	39	43	e50	110	55	115	58	111	31	36	57	34
22	40	42	e46	85	57	109	57	106	75	32	49	31
23	40	42	e44	74	56	91	56	86	124	29	45	30
24	40	42	e42	69	58	82	55	64	54	28	43	79
25	41	51	e40	65	79	76	53	89	47	40	39	61
26	41	74	e40	61	83	71	52	86	86	82	37	40
27	40	55	e39	60	68	67	51	66	68	82	45	36
28	40	50	e39	56	64	66	50	59	52	72	62	33
29	40	48	e39	56	---	187	48	57	45	117	42	32
30	40	47	e39	65	---	370	48	51	41	104	38	30
31	39	---	e38	61	---	154	---	48	---	68	38	---
TOTAL	1261	1460	1575	1771	1616	2702	2172	1734	1490	1500	1855	1159
MEAN	40.7	48.7	50.8	57.1	57.7	87.2	72.4	55.9	49.7	48.4	59.8	38.6
MAX	49	121	166	188	83	370	131	111	124	117	208	79
MIN	38	39	38	34	49	57	48	35	31	28	34	29
CFSM	.52	.62	.64	.72	.73	1.11	.92	.71	.63	.61	.76	.49
IN.	.60	.69	.74	.84	.76	1.28	1.03	.82	.70	.71	.88	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	107	105	114	130	145	172	169	146	125	106	105	103
MAX	248	211	230	232	258	373	426	264	233	228	247	313
(WY)	1991	1980	1974	1998	1966	1993	1983	1973	1975	1989	1970	1979
MIN	40.1	48.7	47.0	48.3	57.7	72.8	69.1	55.9	49.7	35.9	32.1	38.6
(WY)	1989	2001	1989	1981	2001	1981	1981	2001	2001	1986	1981	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	27789		20295			
ANNUAL MEAN	75.9		55.6		127	
HIGHEST ANNUAL MEAN					178	1993
LOWEST ANNUAL MEAN					55.6	2001
HIGHEST DAILY MEAN	398	Mar 20	370	Mar 30	3260	Aug 10 1970
LOWEST DAILY MEAN	38	Oct 16	28	Jul 16	23	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	38	Oct 14	31	Jul 13	25	Aug 25 1981
MAXIMUM PEAK FLOW			1120	Aug 13	7470	Sep 22 1979
MAXIMUM PEAK STAGE			4.27	Aug 13	16.42	Sep 22 1979
INSTANTANEOUS LOW FLOW			27*	Jul 16	16	Jul 22 1986
ANNUAL RUNOFF (CFSM)	.96		.71		1.61	
ANNUAL RUNOFF (INCHES)	13.12		9.58		21.93	
10 PERCENT EXCEEDS	118		83		201	
50 PERCENT EXCEEDS	70		47		101	
90 PERCENT EXCEEDS	41		35		56	

e Estimated.
* See REMARKS.

02112360 MITCHELL RIVER NEAR STATE ROAD, NC--Continued