

PEE DEE RIVER BASIN

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 mi².

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 NGVD of 1929. Prior to Aug. 29, 1964, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

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 ft³/s. A discharge of 16 ft³/s was measured on Sept. 19, 1956.

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	30	31	47	32	56	41	112	54	46	24	26	36
2	29	31	37	33	52	55	96	61	42	22	24	31
3	28	31	33	32	50	111	89	65	39	21	23	27
4	27	31	32	34	49	65	81	58	36	26	23	23
5	27	30	32	45	47	55	77	61	37	31	22	21
6	28	30	32	44	50	52	73	55	36	24	22	18
7	27	30	32	47	95	49	70	54	45	21	21	18
8	27	30	33	37	95	48	68	55	38	19	21	17
9	27	30	33	35	70	48	72	52	34	18	20	18
10	27	30	44	35	65	47	95	53	32	18	19	19
11	29	29	172	35	66	44	76	51	30	50	18	16
12	29	28	69	33	59	47	71	50	28	35	18	15
13	30	28	62	33	56	65	76	53	27	27	18	15
14	77	28	68	31	53	58	74	75	30	29	17	21
15	75	29	54	31	53	53	73	53	29	42	19	36
16	39	29	47	30	52	52	67	49	26	33	40	87
17	33	30	47	30	50	177	68	47	25	26	50	38
18	32	30	84	32	48	230	91	69	24	24	44	149
19	32	30	58	54	47	144	80	56	23	23	31	865
20	32	31	51	84	48	117	75	49	23	24	26	96
21	31	30	44	55	50	101	71	49	22	24	22	65
22	31	30	39	49	47	88	66	47	21	22	20	56
23	31	30	39	109	45	80	62	46	21	20	19	60
24	30	43	56	113	44	75	61	44	22	41	17	48
25	30	49	44	134	44	72	68	43	21	29	18	43
26	29	44	41	95	44	84	61	41	34	466	19	158
27	29	36	38	78	43	122	59	41	48	106	27	347
28	29	34	37	68	41	84	59	53	34	53	26	178
29	30	33	36	63	---	78	59	42	30	40	26	106
30	30	36	34	60	---	76	54	41	26	32	29	84
31	30	---	33	57	---	120	---	44	---	29	39	---
TOTAL	1015	961	1508	1648	1519	2538	2204	1611	929	1399	764	2711
MEAN	32.74	32.03	48.65	53.16	54.25	81.87	73.47	51.97	30.97	45.13	24.65	90.37
MAX	77	49	172	134	95	230	112	75	48	466	50	865
MIN	27	28	32	30	41	41	54	41	21	18	17	15
CFSM	0.42	0.41	0.62	0.67	0.69	1.04	0.93	0.66	0.39	0.57	0.31	1.15
IN.	0.48	0.45	0.71	0.78	0.72	1.20	1.04	0.76	0.44	0.66	0.36	1.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	MEAN	105.5	102.8	112.5	128.4	142.2	169.6	166.8	143.7	122.6	104.6	103.4	102.3
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	32.7	32.0	47.0	48.3	54.2	72.8	69.1	52.0	31.0	35.9	24.6	38.6	
(WY)	2002	2002	1989	1981	2002	1981	1981	2002	2002	1986	2002	2001	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	19483	18807	
ANNUAL MEAN	53.38	51.53	125.2
HIGHEST ANNUAL MEAN			178
LOWEST ANNUAL MEAN			51.5
HIGHEST DAILY MEAN	370	Mar 30	865
LOWEST DAILY MEAN	27	Oct 4	15
ANNUAL SEVEN-DAY MINIMUM	27	Oct 4	17
MAXIMUM PEAK FLOW			3470
MAXIMUM PEAK STAGE			7.74
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	0.68		0.65
ANNUAL RUNOFF (INCHES)	9.20		8.88
10 PERCENT EXCEEDS	83		200
50 PERCENT EXCEEDS	45		100
90 PERCENT EXCEEDS	30		22

02112360 MITCHELL RIVER NEAR STATE ROAD, NC--Continued

