

02112360 MITCHELL RIVER NEAR STATE ROAD, NC

LOCATION.--Lat 36°18'42", long 80°48'25", 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 and crest-stage gage. 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.--Records good except those for estimated daily discharges, which are poor.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	112	144	129	108	98	105	101	83	e102	78	63
2	115	108	135	129	107	99	96	106	e72	e110	222	61
3	112	107	131	128	235	97	94	100	71	e150	114	62
4	114	107	142	128	166	95	92	93	105	e160	89	60
5	113	126	202	132	138	95	89	91	99	e118	83	58
6	112	233	170	129	428	108	88	88	81	e100	80	57
7	110	175	153	121	330	99	89	86	152	e90	73	105
8	110	135	144	121	186	100	89	82	150	81	68	2,420
9	120	124	138	124	154	97	88	85	147	78	66	563
10	127	119	302	122	142	97	86	88	319	78	65	277
11	115	117	372	118	134	95	87	81	252	102	87	196
12	112	116	222	119	134	94	164	79	127	84	88	158
13	110	114	190	119	128	92	320	81	135	86	102	130
14	112	107	220	117	122	92	232	83	121	76	79	123
15	128	109	211	117	121	94	156	78	115	70	74	117
16	110	111	193	113	119	128	135	85	284	67	70	124
17	109	110	234	113	113	110	124	91	153	86	70	282
18	109	108	203	126	113	99	117	86	124	249	82	257
19	107	674	183	118	113	97	112	77	119	242	69	156
20	105	318	170	112	110	95	109	86	122	123	65	132
21	106	204	160	111	108	95	106	e88	127	97	62	120
22	104	171	156	111	104	92	102	e85	266	88	61	111
23	102	156	153	110	102	91	100	e100	141	86	61	117
24	102	159	152	110	103	91	101	e85	120	80	65	110
25	102	157	144	e114	100	91	96	e78	195	76	64	100
26	105	142	140	e113	100	90	133	e79	410	78	61	97
27	260	137	137	e113	106	90	130	e85	161	108	59	117
28	145	174	135	110	103	90	104	77	134	101	75	1,300
29	127	169	134	109	99	89	98	e75	118	79	112	325
30	118	149	140	114	---	93	96	72	107	85	75	208
31	114	---	132	112	---	119	---	88	---	92	71	---
TOTAL	3,657	4,848	5,442	3,662	4,126	3,012	3,538	2,659	4,610	3,222	2,490	8,006
MEAN	118	162	176	118	142	97.2	118	85.8	154	104	80.3	267
MAX	260	674	372	132	428	128	320	106	410	249	222	2,420
MIN	102	107	131	109	99	89	86	72	71	67	59	57
CFSM	1.50	2.05	2.23	1.50	1.81	1.23	1.50	1.09	1.95	1.32	1.02	3.39
IN.	1.73	2.29	2.57	1.73	1.95	1.42	1.67	1.26	2.18	1.52	1.18	3.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	105	105	115	128	143	169	169	143	127	108	105	107
MAX	248	211	230	232	258	373	426	264	280	260	247	313
(WY)	(1991)	(1980)	(1974)	(1998)	(1966)	(1993)	(1983)	(1973)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	70,003		49,272		127	
ANNUAL MEAN	192		135		51.5	
HIGHEST ANNUAL MEAN					182	2003
LOWEST ANNUAL MEAN					51.5	2002
HIGHEST DAILY MEAN	1,290	Apr 10	2,420	Sep 8	3,260	Aug 10, 1970
LOWEST DAILY MEAN	88	Feb 13	57	Sep 6	15	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	91	Feb 8	62	Aug 31	17	Sep 7, 2002
MAXIMUM PEAK FLOW			5,630	Sep 8	7,470	Sep 22, 1979
MAXIMUM PEAK STAGE			12.11	Sep 8	16.42	Sep 22, 1979
INSTANTANEOUS LOW FLOW			54	Sep 6	12	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.43		1.71		1.61	
ANNUAL RUNOFF (INCHES)	33.05		23.26		21.87	
10 PERCENT EXCEEDS	280		194		202	
50 PERCENT EXCEEDS	160		110		101	
90 PERCENT EXCEEDS	107		78		54	

e Estimated.

