

PEE DEE RIVER BASIN

02111180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--48.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

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

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,082.40 ft above sea level. Satellite telemetry at station.

REMARKS --Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,200 ft<sup>3</sup>/s on basis of contracted-opening computation. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft<sup>3</sup>/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft<sup>3</sup>/s was measured 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	16	13	16	e14	24	30	125	28	34	26	98	28
2	15	14	16	e14	23	28	97	29	41	26	82	30
3	15	14	16	e14	23	27	84	26	28	112	60	37
4	15	14	16	e14	22	42	75	25	24	70	53	52
5	14	14	15	e14	21	46	67	24	24	93	44	37
6	14	14	16	e13	21	41	62	30	26	45	38	30
7	13	14	15	e13	20	37	59	26	26	34	34	28
8	13	15	15	e13	20	33	56	25	24	31	32	26
9	13	41	15	e13	20	32	54	25	23	36	30	26
10	14	98	15	e13	21	30	51	24	21	30	27	36
11	14	29	15	e13	20	28	49	24	22	27	28	41
12	14	21	15	e13	20	29	48	26	21	25	44	29
13	13	19	15	e13	20	42	51	26	28	24	45	26
14	12	18	18	e13	23	34	47	24	39	22	45	25
15	12	16	21	e13	24	49	45	24	25	21	32	25
16	12	16	22	e13	24	68	44	24	22	20	29	24
17	13	16	83	e13	28	58	42	47	20	20	29	24
18	13	16	e30	e20	24	51	43	36	19	20	31	23
19	13	15	e24	129	22	46	40	51	19	22	31	23
20	13	16	e21	131	22	44	40	81	19	38	41	39
21	14	16	e19	62	22	242	40	49	23	29	28	34
22	14	16	e17	46	23	155	34	44	25	25	25	26
23	14	16	e17	37	23	101	33	60	46	23	24	24
24	14	16	e16	31	25	76	33	43	26	24	32	70
25	14	19	e16	29	42	62	33	51	30	50	29	49
26	14	29	e15	26	51	55	31	60	141	168	25	30
27	15	21	e15	27	39	49	29	45	81	264	28	26
28	14	19	e15	26	34	44	29	38	43	177	30	23
29	14	18	e14	24	---	147	28	35	31	123	25	20
30	13	17	e14	30	---	401	27	30	27	115	24	19
31	13	---	e14	27	---	176	---	28	---	105	24	---
TOTAL	424	620	591	871	701	2303	1496	1108	978	1845	1147	930
MEAN	13.7	20.7	19.1	28.1	25.0	74.3	49.9	35.7	32.6	59.5	37.0	31.0
MAX	16	98	83	131	51	401	125	81	141	264	98	70
MIN	12	13	14	13	20	27	27	24	19	20	24	19
CFSM	.28	.43	.40	.58	.52	1.54	1.04	.74	.68	1.24	.77	.64
IN.	.33	.48	.46	.67	.54	1.78	1.16	.86	.76	1.43	.89	.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001				
MEAN	74.8	88.2	86.1	105	120	149	141	110	98.6	68.8	78.9	62.5																												
MAX	298	365	193	323	250	317	379	291	226	185	384	257																												
(WY)	1991	1978	1974	1995	1966	1993	1980	1973	1992	1989	1994	1979																												
MIN	13.7	19.8	19.1	22.5	25.0	47.9	49.9	35.7	21.7	17.6	18.9	21.0																												
(WY)	2001	1982	2001	1981	2001	1988	2001	2001	1988	1988	1988	2000																												

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1966 - 2001

ANNUAL TOTAL	15634	13014	
ANNUAL MEAN	42.7	35.7	98.5
HIGHEST ANNUAL MEAN			154
LOWEST ANNUAL MEAN			35.7
HIGHEST DAILY MEAN	461	Mar 20	401
LOWEST DAILY MEAN	12	Oct 14	12
ANNUAL SEVEN-DAY MINIMUM	13	Oct 13	13
MAXIMUM PEAK FLOW			885
MAXIMUM PEAK STAGE			2.75
INSTANTANEOUS LOW FLOW			8.8*
ANNUAL RUNOFF (CFSM)	.89	.74	2.05
ANNUAL RUNOFF (INCHES)	12.09	10.06	27.82
10 PERCENT EXCEEDS	83	60	169
50 PERCENT EXCEEDS	32	26	68
90 PERCENT EXCEEDS	14	14	28

e Estimated.  
\* See REMARKS.

02111180 ELK CREEK AT ELKVILLE, NC--Continued

