

02111180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'17", long 81°24'11", 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 mi².

WATER-DISCHARGE RECORDS

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 NGVD of 1929. 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 ft³/s on basis of contracted-opening computation. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Aug. 8-11.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft³/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft³/s was measured 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	77	60	113	86	e58	83	88	78	51	59	33	47
2	75	60	104	84	e60	82	77	84	45	57	35	104
3	73	60	97	83	e112	81	73	82	42	64	33	90
4	73	60	101	83	e90	79	70	75	94	56	30	61
5	71	64	117	82	e78	78	68	72	66	58	29	52
6	68	88	108	76	e380	88	66	70	51	48	29	52
7	68	83	102	73	359	82	66	65	51	45	27	319
8	68	73	97	73	207	83	66	64	49	43	26	2,950
9	80	69	93	76	158	79	65	78	50	40	26	838
10	80	66	219	75	137	77	64	65	52	39	26	320
11	73	66	324	71	126	73	65	62	73	40	41	215
12	70	65	200	71	125	71	130	62	50	51	e62	165
13	68	66	159	71	120	68	415	69	61	40	e45	138
14	69	62	158	70	115	66	299	65	58	37	35	125
15	76	62	140	71	115	68	181	60	156	34	33	114
16	67	62	130	69	109	84	140	59	269	33	31	106
17	66	62	166	68	100	75	120	61	162	33	30	436
18	66	62	160	78	99	72	109	67	111	40	48	420
19	63	1,510	145	71	98	69	104	60	79	36	52	236
20	62	384	129	66	96	65	97	65	67	34	84	177
21	61	210	115	63	97	66	94	61	101	31	42	147
22	62	156	108	65	92	63	87	60	352	29	37	128
23	60	127	103	64	88	61	83	76	135	30	64	115
24	60	128	126	e61	87	60	81	75	99	30	97	105
25	59	116	116	e65	87	60	83	57	97	53	69	100
26	63	108	107	e64	87	61	111	53	118	42	48	95
27	109	103	101	e62	90	62	100	54	85	54	42	98
28	73	136	96	e60	88	62	82	50	75	41	45	566
29	66	146	93	e62	87	60	77	49	66	35	47	282
30	63	126	99	e62	---	65	76	48	61	44	39	198
31	61	---	89	e60	---	95	---	56	---	37	42	---
TOTAL	2,150	4,440	4,015	2,185	3,545	2,238	3,237	2,002	2,826	1,313	1,327	8,799
MEAN	69.4	148	130	70.5	122	72.2	108	64.6	94.2	42.4	42.8	293
MAX	109	1,510	324	86	380	95	415	84	352	64	97	2,950
MIN	59	60	89	60	58	60	64	48	42	29	26	47
CFSM	1.44	3.08	2.69	1.47	2.54	1.50	2.24	1.34	1.96	0.88	0.89	6.10
IN.	1.66	3.43	3.11	1.69	2.74	1.73	2.50	1.55	2.19	1.02	1.03	6.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	72.5	88.5	87.3	102	119	146	141	108	102	70.6	80.0	69.2
MAX	298	365	193	323	250	317	379	291	300	211	384	293
(WY)	(1991)	(1978)	(1974)	(1995)	(1966)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(2004)
MIN	13.7	19.8	19.1	22.5	25.0	47.9	49.9	31.0	21.7	17.6	15.3	21.0
(WY)	(2001)	(1982)	(2001)	(1981)	(2001)	(1988)	(2001)	(2002)	(1988)	(1988)	(2002)	(2000)

02111180 ELK CREEK AT ELKVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	59,352		38,077		98.6	
ANNUAL MEAN	163		104		157	
HIGHEST ANNUAL MEAN					35.7	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,510	Nov 19	2,950	Sep 8	5,890	Aug 17, 1994
LOWEST DAILY MEAN	59	Jan 28	26	Aug 8	7.0	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	61	Oct 19	28	Aug 4	8.0	Sep 8, 2002
MAXIMUM PEAK FLOW			5,170	Nov 19	18,700*	Aug 17, 1994
MAXIMUM PEAK STAGE			6.56	Nov 19	12.02	Aug 17, 1994
INSTANTANEOUS LOW FLOW			26*	Aug 7	6.8*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	3.38		2.16		2.05	
ANNUAL RUNOFF (INCHES)	45.90		29.45		27.85	
10 PERCENT EXCEEDS	277		146		170	
50 PERCENT EXCEEDS	119		71		68	
90 PERCENT EXCEEDS	64		42		27	

* See REMARKS.

e Estimated.

