

## 0211180 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 mi<sup>2</sup>.

## 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 ft<sup>3</sup>/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 Sept. 25, 30.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	92	144	101	93	122	159	102	66	75	77	67
2	143	91	127	98	89	103	305	96	172	71	70	60
3	131	90	123	99	105	98	275	93	131	81	66	55
4	122	155	115	99	105	98	217	89	106	80	62	53
5	114	140	103	96	98	105	183	90	89	71	59	51
6	108	118	100	92	95	117	163	90	78	68	58	49
7	103	108	103	88	93	111	147	85	81	449	70	48
8	99	101	96	87	92	119	156	81	98	290	70	47
9	97	95	131	81	92	107	148	79	122	137	75	45
10	96	91	178	79	91	101	131	78	127	103	66	45
11	92	87	157	78	87	97	123	79	113	115	60	43
12	91	160	137	77	83	94	120	74	102	170	56	43
13	113	166	125	86	82	90	140	73	320	131	53	42
14	113	133	113	480	92	95	200	78	231	111	61	41
15	94	120	105	221	87	87	161	104	147	e300	53	40
16	89	111	100	167	85	90	142	89	114	664	62	40
17	84	103	98	142	83	105	129	76	98	273	76	47
18	81	97	95	123	80	97	122	73	86	219	242	39
19	90	93	93	116	78	92	115	72	107	245	140	37
20	89	91	e91	113	79	90	107	87	110	237	92	35
21	84	88	e89	108	86	88	107	73	89	207	74	34
22	85	85	84	102	82	88	119	68	80	155	89	33
23	92	100	391	98	78	162	119	72	74	131	76	33
24	93	294	300	e97	91	174	105	68	71	111	67	33
25	88	368	199	92	85	138	100	66	68	98	62	34
26	85	219	162	91	81	123	98	64	66	86	59	42
27	87	176	138	87	81	121	101	61	65	77	56	43
28	108	163	123	81	125	687	95	61	65	76	55	35
29	106	139	116	85	---	372	109	60	102	99	55	34
30	103	128	111	103	---	238	107	60	85	79	90	33
31	97	---	106	99	---	188	---	60	---	81	95	---
TOTAL	3,143	4,002	4,153	3,566	2,498	4,397	4,303	2,401	3,263	5,090	2,346	1,281
MEAN	101	133	134	115	89.2	142	143	77.5	109	164	75.7	42.7
MAX	166	368	391	480	125	687	305	104	320	664	242	67
MIN	81	85	84	77	78	87	95	60	65	68	53	33
CFSM	2.11	2.77	2.79	2.39	1.85	2.95	2.98	1.61	2.26	3.41	1.57	0.89
IN.	2.43	3.10	3.21	2.76	1.93	3.40	3.33	1.86	2.52	3.94	1.81	0.99

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	73.3	89.6	88.4	102	118	146	141	107	102	72.9	79.9	68.5
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	38,770		40,443		98.9	
ANNUAL MEAN	106		111		157	
HIGHEST ANNUAL MEAN					35.7	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	2,950	Sep 8	687	Mar 28	5,890	Aug 17, 1994
LOWEST DAILY MEAN	26	Aug 8	33	Sep 22	7.0	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	28	Aug 4	34	Sep 19	8.0	Sep 8, 2002
MAXIMUM PEAK FLOW			2,640	Jul 15	18,700*	Aug 17, 1994
MAXIMUM PEAK STAGE			4.74	Jul 15	12.02	Aug 17, 1994
INSTANTANEOUS LOW FLOW			32*	Sep 24	6.8*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.20		2.30		2.06	
ANNUAL RUNOFF (INCHES)	29.98		31.28		27.94	
10 PERCENT EXCEEDS	157		166		170	
50 PERCENT EXCEEDS	82		94		69	
90 PERCENT EXCEEDS	42		59		27	

\* See REMARKS.

e Estimated.

