

0211180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'16", long 81°24'12", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elksville, 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.

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	48	55	110	62	135	130	272	93	217	181	179
2	36	44	53	113	61	133	124	215	86	1,070	216	132
3	31	40	53	136	60	121	119	169	111	588	621	134
4	28	37	55	129	73	112	116	147	170	296	455	156
5	26	44	101	118	68	109	118	182	132	223	304	142
6	24	71	94	106	64	151	109	211	112	225	270	120
7	22	57	76	97	68	131	139	189	678	245	465	113
8	21	51	72	91	63	120	135	163	498	189	366	106
9	21	47	74	87	61	113	211	143	409	186	393	101
10	21	46	72	84	63	103	1,020	130	248	179	305	99
11	35	338	247	78	65	97	695	124	187	174	266	95
12	29	247	209	74	64	93	331	113	174	148	224	92
13	24	191	270	71	62	89	237	105	187	139	202	90
14	22	136	307	70	64	85	191	99	452	130	186	86
15	35	107	202	68	90	80	163	117	640	124	196	84
16	231	185	153	67	100	335	146	131	678	122	205	79
17	110	310	125	68	101	274	136	112	836	114	183	75
18	65	199	109	66	102	223	623	118	465	111	162	75
19	51	139	100	e66	120	205	429	113	699	107	147	74
20	44	113	181	e66	126	535	286	108	377	102	138	71
21	47	105	148	e66	127	408	237	110	271	166	134	70
22	46	93	128	64	797	267	202	149	219	326	127	120
23	40	81	113	63	504	210	175	170	186	281	120	224
24	36	74	170	e64	271	175	160	160	162	171	112	101
25	36	70	204	e64	200	150	151	137	147	134	108	88
26	42	66	163	e62	165	136	146	167	137	119	104	83
27	37	63	138	61	154	122	131	143	161	111	109	100
28	39	60	121	59	152	116	120	124	135	104	121	142
29	51	58	106	62	---	115	115	116	144	118	111	92
30	54	57	98	67	---	170	137	106	193	179	186	81
31	52	---	91	65	---	145	---	104	---	144	191	---
TOTAL	1,399	3,177	4,088	2,462	3,907	5,258	7,032	4,447	8,987	6,542	6,908	3,204
MEAN	45.1	106	132	79.4	140	170	234	143	300	211	223	107
MAX	231	338	307	136	797	535	1,020	272	836	1,070	621	224
MIN	21	37	53	59	60	80	109	99	86	102	104	70
CFSM	0.94	2.20	2.74	1.65	2.90	3.53	4.87	2.98	6.23	4.39	4.63	2.22
IN.	1.08	2.46	3.16	1.90	3.02	4.07	5.44	3.44	6.95	5.06	5.34	2.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	72.6	87.0	86.2	103	119	148	142	109	102	71.3	81.0	63.3
MAX	298	365	193	323	250	317	379	291	300	211	384	257
(WY)	(1991)	(1978)	(1974)	(1995)	(1966)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(1979)
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1966 - 2003	
ANNUAL TOTAL	20,307.0		57,411		98.5	
ANNUAL MEAN	55.6		157		157	
HIGHEST ANNUAL MEAN					35.7	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	586	Sep 27	1,070	Jul 2	5,890	Aug 17, 1994
LOWEST DAILY MEAN	7.0	Sep 13	21	Oct 8	7.0	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 8	23	Oct 4	8.0	Sep 8, 2002
MAXIMUM PEAK FLOW			2,160	Apr 10	18,700*	Aug 17, 1994
MAXIMUM PEAK STAGE			4.26	Apr 10	12.02	Aug 17, 1994
INSTANTANEOUS LOW FLOW			20	Oct 9	6.8*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	1.16		3.27		2.05	
ANNUAL RUNOFF (INCHES)	15.71		44.40		27.81	
10 PERCENT EXCEEDS	113		277		171	
50 PERCENT EXCEEDS	41		120		68	
90 PERCENT EXCEEDS	14		53		27	

e Estimated.
 * See REMARKS.

