

02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'25", long 80°14'05", Davidson County, Hydrologic Unit 03040103, on right bank 150 ft upstream from bridge on Secondary Road 1243, 1.5 mi southeast of Lexington, and 4.5 mi downstream of Rich Fork Creek.

DRAINAGE AREA.--174 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1940 to December 1957. October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 630 ft above NGVD of 1929, from topographic map. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry at station. Raingage located .5 mi upstream.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The City of Lexington diverted an average of 5.2 ft<sup>3</sup>/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 8.4 ft<sup>3</sup>/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft<sup>3</sup>/s, from floodmark; minimum discharge at former site 0.4 ft<sup>3</sup>/s. Minimum discharge for period of record also occurred Sept. 5, 1990. Minimum discharge for current water year also occurred Oct. 8, 9, 10.

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	17	166	78	176	227	908	417	128	343	76	480	1,390
2	16	119	72	249	165	1,000	269	133	170	316	260	280
3	15	93	69	307	139	784	218	292	199	383	228	171
4	14	79	69	410	138	343	186	272	924	217	605	1,070
5	13	86	792	215	180	260	175	211	2,680	172	565	2,650
6	12	555	1,140	166	136	824	182	344	832	171	347	723
7	11	398	618	141	310	1,180	888	339	1,700	1,050	203	205
8	10	161	356	126	436	368	1,910	208	4,650	791	408	148
9	10	117	266	119	221	247	1,990	154	2,370	189	597	122
10	10	97	226	109	171	193	5,090	123	702	140	527	102
11	1,030	96	786	98	155	159	6,690	94	308	106	1,040	88
12	1,650	718	1,360	90	133	145	1,750	78	223	128	781	80
13	272	1,490	938	86	116	137	424	67	202	123	265	76
14	676	387	2,320	84	106	165	276	60	168	257	186	73
15	256	187	839	82	115	138	240	59	140	170	171	74
16	1,020	362	326	78	126	490	224	578	145	97	161	71
17	1,430	2,510	245	83	131	496	216	333	165	80	238	64
18	233	1,840	189	80	136	354	217	167	201	97	659	114
19	136	412	158	73	286	317	611	229	217	386	680	1,120
20	100	235	293	79	223	5,250	420	196	431	224	171	473
21	83	175	357	81	181	6,520	248	161	693	109	127	148
22	92	150	204	76	1,120	1,280	212	555	217	193	105	131
23	84	131	166	78	4,420	410	175	1,650	153	1,110	93	e8,000
24	62	117	491	e78	1,200	278	148	766	119	440	497	e6,000
25	54	109	2,140	e76	319	232	133	692	90	197	617	564
26	57	102	1,280	e76	252	201	215	991	76	125	170	230
27	58	98	352	e75	519	186	326	955	70	90	102	177
28	104	88	229	65	1,210	170	186	309	79	75	80	382
29	462	81	177	73	---	168	146	217	80	158	74	191
30	628	78	147	261	---	581	127	239	92	826	111	137
31	330	---	130	494	---	1,340	---	177	---	489	352	---
TOTAL	8,945	11,237	16,813	4,284	12,871	25,124	24,309	10,777	18,439	8,985	10,900	25,054
MEAN	289	375	542	138	460	810	810	348	615	290	352	835
MAX	1,650	2,510	2,320	494	4,420	6,520	6,690	1,650	4,650	1,110	1,040	8,000
MIN	10	78	69	65	106	137	127	59	70	75	74	64
CFSM	1.66	2.15	3.12	0.79	2.64	4.66	4.66	2.00	3.53	1.67	2.02	4.80
IN.	1.91	2.40	3.59	0.92	2.75	5.37	5.20	2.30	3.94	1.92	2.33	5.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003,® BY WATER YEAR (WY)

MEAN	162	120	148	258	288	370	282	174	112	69.2	70.5	125
MAX	731	375	542	554	753	810	810	515	615	290	352	835
(WY)	(1990)	(2003)	(2003)	(1998)	(1990)	(2003)	(2003)	(1989)	(2003)	(2003)	(2003)	(2003)
MIN	8.08	10.3	22.4	55.9	55.4	83.7	44.4	19.4	21.2	21.6	14.9	13.5
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(1990)	(2001)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003 <sup>@</sup>	
ANNUAL TOTAL	52,455.7		177,738		181	
ANNUAL MEAN	144		487		45.8	
HIGHEST ANNUAL MEAN					487	2003
LOWEST ANNUAL MEAN					45.8	2002
HIGHEST DAILY MEAN	2,510	Nov 17	8,000	Sep 23	8,000	Sep 23, 2003
LOWEST DAILY MEAN	4.0	Aug 12	10	Oct 8	2.7	Sep 4, 1990
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 8	11	Oct 4	3.9	Sep 1, 1990
MAXIMUM PEAK FLOW			11,800	Sep 23	11,800*	Sep 23, 2003
MAXIMUM PEAK STAGE			23.48	Sep 23	23.48	Sep 23, 2003
INSTANTANEOUS LOW FLOW			10*	Oct 7	2.4*	Sep 4, 1990
ANNUAL RUNOFF (CFSM)	0.83		2.80		1.04	
ANNUAL RUNOFF (INCHES)	11.21		38.00		14.14	
10 PERCENT EXCEEDS	328		1,060		347	
50 PERCENT EXCEEDS	43		199		72	
90 PERCENT EXCEEDS	8.2		76		15	

e Estimated.  
<sup>@</sup> See PERIOD OF RECORD.  
 \* See REMARKS.

