

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 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. 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.--No estimated daily discharges. Records fair. The City of Lexington diverted an average of 5.6 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 6.2 ft³/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft³/s, from floodmark; minimum discharge at former site 0.4 ft³/s. Minimum discharge for period of record also occurred Sept. 5, 1990. Minimum discharge for current water year also occurred Sept. 6, 7.

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	118	76	66	84	94	492	229	68	41	75	53	30
2	107	71	61	82	82	588	150	122	34	53	42	24
3	93	68	58	83	346	407	120	184	30	49	53	21
4	88	67	60	84	394	256	107	154	41	184	53	19
5	87	68	89	85	189	213	93	99	111	281	34	18
6	83	76	100	106	272	202	86	76	54	217	29	16
7	81	131	79	84	1,400	227	86	67	40	76	38	22
8	85	101	70	73	583	185	84	60	42	51	28	1,230
9	112	78	67	78	245	165	81	55	95	42	22	3,920
10	111	66	106	87	207	164	79	52	98	37	20	654
11	99	65	571	75	187	153	77	50	58	37	18	184
12	92	66	257	72	203	148	156	47	45	202	18	168
13	81	65	153	76	252	143	676	48	35	90	23	168
14	83	58	734	74	197	139	1,150	55	47	56	192	156
15	110	58	818	74	187	151	380	47	62	46	181	99
16	88	60	420	70	284	202	226	43	57	35	83	52
17	70	61	399	65	235	324	184	50	48	61	49	448
18	68	63	488	78	201	238	172	47	40	264	102	1,560
19	66	92	288	95	186	344	157	61	46	102	99	404
20	64	165	216	75	176	192	129	52	44	50	52	143
21	63	96	165	67	168	161	112	52	56	35	38	91
22	64	76	135	65	156	139	93	44	35	27	34	66
23	61	68	120	66	150	121	84	40	28	25	28	56
24	58	65	117	65	146	113	79	45	178	23	25	49
25	58	66	111	68	145	108	74	45	58	19	23	43
26	59	63	96	78	139	105	73	37	165	16	21	39
27	80	61	91	75	168	104	113	36	218	146	19	47
28	102	66	89	73	189	101	84	41	174	353	18	3,410
29	174	94	86	80	284	93	69	33	314	152	17	4,590
30	142	78	91	110	---	94	64	42	151	171	17	601
31	89	---	96	123	---	125	---	53	---	73	25	---
TOTAL	2,736	2,288	6,297	2,470	7,465	6,197	5,267	1,905	2,445	3,048	1,454	18,328
MEAN	88.3	76.3	203	79.7	257	200	176	61.5	81.5	98.3	46.9	611
MAX	174	165	818	123	1,400	588	1,150	184	314	353	192	4,590
MIN	58	58	58	65	82	93	64	33	28	16	17	16
CFSM	0.51	0.44	1.17	0.46	1.48	1.15	1.01	0.35	0.47	0.57	0.27	3.51
IN.	0.58	0.49	1.35	0.53	1.60	1.32	1.13	0.41	0.52	0.65	0.31	3.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004,® BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	157	117	151	247	286	359	276	167	110	71.0	69.0	156					
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004 [@]	
ANNUAL TOTAL	152,064		59,900		180	
ANNUAL MEAN	417		164		45.8	
HIGHEST ANNUAL MEAN					487	2003
LOWEST ANNUAL MEAN					45.8	2002
HIGHEST DAILY MEAN	8,000	Sep 23	4,590	Sep 29	8,000	Sep 23, 2003
LOWEST DAILY MEAN	58	Oct 24	16	Jul 26	2.7	Sep 4, 1990
ANNUAL SEVEN-DAY MINIMUM	61	Oct 20	20	Aug 24	3.9	Sep 1, 1990
MAXIMUM PEAK FLOW			6,210	Sep 28	11,800*	Sep 23, 2003
MAXIMUM PEAK STAGE			18.07	Sep 28	23.48	Sep 23, 2003
INSTANTANEOUS LOW FLOW			16*	Jul 26	2.4*	Sep 4, 1990
ANNUAL RUNOFF (CFSM)	2.39		0.941		1.03	
ANNUAL RUNOFF (INCHES)	32.51		12.81		14.05	
10 PERCENT EXCEEDS	825		256		342	
50 PERCENT EXCEEDS	166		83		74	
90 PERCENT EXCEEDS	68		35		15	

[@] See PERIOD OF RECORD.

* See REMARKS.

