

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 618.26 ft above North American Vertical Datum of 1988, from levels. 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 5.3 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.91 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.

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	250	51	122	91	135	966	221	121	43	39	592	19
2	219	49	125	89	107	294	225	127	144	33	201	18
3	179	47	99	87	178	192	233	84	199	31	106	16
4	154	93	89	87	488	156	163	73	151	389	62	14
5	136	147	82	86	222	143	144	66	102	239	46	12
6	109	82	79	84	157	128	131	92	89	303	36	11
7	85	64	92	86	135	119	131	96	62	161	33	12
8	70	57	101	83	122	245	488	73	129	548	30	13
9	64	53	96	81	113	318	867	66	115	200	291	12
10	81	49	2,530	79	136	169	246	64	493	121	443	12
11	92	48	3,300	80	121	144	172	74	325	85	157	11
12	62	101	718	78	97	140	149	63	134	59	84	11
13	55	570	331	77	94	128	176	73	136	48	52	12
14	68	206	245	615	103	132	585	69	109	210	43	13
15	61	118	196	626	127	117	259	69	82	167	38	14
16	49	91	163	209	107	133	169	71	30	99	36	13
17	44	81	141	153	101	380	139	59	20	65	43	12
18	42	74	128	121	87	377	127	53	19	52	61	11
19	43	72	121	102	79	213	117	52	29	44	60	9.9
20	54	70	111	100	79	168	105	168	135	83	50	11
21	56	69	93	100	105	147	95	150	54	61	38	11
22	49	68	96	95	126	136	89	86	40	42	32	18
23	48	81	146	95	100	187	96	72	34	37	29	16
24	47	165	223	e85	227	294	93	65	30	31	27	12
25	52	317	146	81	273	200	94	77	27	28	25	10
26	52	231	122	83	161	160	86	60	26	23	24	17
27	49	135	108	89	135	146	81	52	33	23	22	21
28	49	271	99	73	815	1,580	76	49	156	30	21	13
29	56	208	97	69	---	2,470	75	48	84	307	20	11
30	62	138	97	119	---	540	88	43	50	351	21	10
31	58	---	93	201	---	272	---	44	---	260	20	---
TOTAL	2,495	3,806	10,189	4,104	4,730	10,794	5,720	2,359	3,080	4,169	2,743	395.9
MEAN	80.5	127	329	132	169	348	191	76.1	103	134	88.5	13.2
MAX	250	570	3,300	626	815	2,470	867	168	493	548	592	21
MIN	42	47	79	69	79	117	75	43	19	23	20	9.9
CFSM	0.46	0.73	1.89	0.76	0.97	2.00	1.10	0.44	0.59	0.77	0.51	0.08
IN.	0.53	0.81	2.18	0.88	1.01	2.31	1.22	0.50	0.66	0.89	0.59	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005,[@] BY WATER YEAR (WY)

MEAN	153	118	161	240	280	359	271	162	110	74.7	70.1	147
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	13.2
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(1990)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005 [@]	
ANNUAL TOTAL	65,069		54,584.9		178	
ANNUAL MEAN	178		150		45.8	
HIGHEST ANNUAL MEAN					487	2003
LOWEST ANNUAL MEAN					45.8	2002
HIGHEST DAILY MEAN	4,590	Sep 29	3,300	Dec 11	8,000	Sep 23, 2003
LOWEST DAILY MEAN	16	Jul 26	9.9	Sep 19	2.7	Sep 4, 1990
ANNUAL SEVEN-DAY MINIMUM	20	Aug 24	12	Sep 15	3.9	Sep 1, 1990
MAXIMUM PEAK FLOW			4,580	Dec 11	11,800*	Sep 23, 2003
MAXIMUM PEAK STAGE			15.73	Dec 11	23.48	Sep 23, 2003
INSTANTANEOUS LOW FLOW			6.5	Sep 30	2.4*	Sep 4, 1990
ANNUAL RUNOFF (CFSM)	1.02		0.859		1.02	
ANNUAL RUNOFF (INCHES)	13.91		11.67		13.91	
10 PERCENT EXCEEDS	253		259		335	
50 PERCENT EXCEEDS	84		89		75	
90 PERCENT EXCEEDS	35		22		16	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.

