

PEE DEE RIVER BASIN

02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'25", long 80°14'05", North American Datum of 1983, 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 (annual maximums only), 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 and rain gage at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. The City of Lexington diverted an average of 5.1 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.45 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 Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	9.1	12	12	58	28	143	14	26	13	11	406
2	7.4	9.4	11	12	55	46	114	15	52	11	9.4	255
3	7.5	10	10	14	46	267	87	16	33	49	8.1	46
4	7.1	10	10	16	44	189	74	21	22	24	7.0	27
5	6.9	9.7	11	18	40	102	61	35	14	17	5.9	19
6	7.2	8.5	11	46	35	77	53	22	13	13	5.9	16
7	6.0	9.0	11	117	100	66	46	18	25	9.1	6.0	12
8	5.3	9.4	11	50	162	58	43	17	22	8.5	5.7	10
9	5.4	9.4	10	34	107	59	44	15	12	8.1	5.1	8.6
10	6.9	9.4	20	26	84	57	48	14	9.2	8.1	5.5	8.8
11	7.6	9.6	117	23	93	48	48	13	9.4	16	4.7	8.5
12	7.6	8.5	66	21	72	55	40	12	9.0	62	4.0	7.9
13	7.1	8.0	27	e20	63	158	41	23	8.3	19	4.4	7.2
14	7.4	11	20	e20	56	303	40	67	8.5	18	5.0	13
15	17	11	17	e19	50	144	50	33	8.2	20	13	121
16	21	10	14	e19	48	105	49	22	7.3	14	47	164
17	9.9	11	14	e17	46	101	37	17	6.5	10	25	52
18	7.9	9.4	48	16	42	143	35	20	6.5	8.2	11	38
19	8.1	9.0	48	90	39	111	34	29	6.6	6.9	7.2	264
20	7.4	9.0	23	509	38	94	34	19	6.9	7.0	6.2	151
21	7.5	9.6	17	145	39	139	32	16	6.7	10	5.9	42
22	7.0	9.5	15	93	39	173	29	16	6.7	7.8	5.6	27
23	6.1	10	14	627	36	108	28	15	6.9	24	5.0	21
24	7.7	12	17	915	33	88	25	14	8.1	56	5.1	18
25	7.9	16	30	399	32	78	19	13	6.8	159	7.7	16
26	7.6	15	19	283	32	75	18	12	15	305	52	30
27	7.1	13	15	145	32	209	16	11	154	133	88	103
28	8.8	12	14	104	30	156	15	12	106	39	38	48
29	8.2	11	14	83	---	103	15	12	51	19	45	30
30	7.7	11	15	72	---	85	15	12	23	15	54	20
31	8.0	---	13	63	---	88	---	25	---	12	131	---
TOTAL	250.5	309.5	694	4028	1551	3513	1333	600	689.6	1121.7	634.4	1990.0
MEAN	8.081	10.32	22.39	129.9	55.39	113.3	44.43	19.35	22.99	36.18	20.46	66.33
MAX	21	16	117	915	162	303	143	67	154	305	131	406
MIN	5.3	8.0	10	12	30	28	15	11	6.5	6.9	4.0	7.2
CFSM	0.05	0.06	0.13	0.75	0.32	0.65	0.26	0.11	0.13	0.21	0.12	0.38
IN.	0.05	0.07	0.15	0.86	0.33	0.75	0.28	0.13	0.15	0.24	0.14	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002,® BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	153.0	102.1	119.3	266.8	276.3	338.3	244.8	161.5	76.46	53.39	50.37	74.63			
MAX	731	282	319	554	753	781	506	515	182	115	102	397			
(WY)	1990	1996	1990	1998	1990	1993	1993	1989	1989	1995	1989	1996			
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			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002®

ANNUAL TOTAL	22079.1	16714.7	
ANNUAL MEAN	60.49	45.79	159.2
HIGHEST ANNUAL MEAN			281
LOWEST ANNUAL MEAN			45.8
HIGHEST DAILY MEAN	1500	Mar 30	915
LOWEST DAILY MEAN	5.3	Oct 8	4.0
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 4	4.9
MAXIMUM PEAK FLOW			1620
MAXIMUM PEAK STAGE			10.46
INSTANTANEOUS LOW FLOW			3.3*
ANNUAL RUNOFF (CFSM)	0.35		0.26
ANNUAL RUNOFF (INCHES)	4.72		3.57
10 PERCENT EXCEEDS	115		106
50 PERCENT EXCEEDS	24		18
90 PERCENT EXCEEDS	8.5		7.1

e Estimated.
® See PERIOD OF RECORD.
* See REMARKS.

02121500 ABBOTTS CREEK AT LEXINGTON, NC--Continued

