

PEE DEE RIVER BASIN

02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'23", 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 sea level, from topographic map. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry and rain gage at station.

REMARKS.--No estimated daily discharges. Records good. The City of Lexington diverted an average of 5.3 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 5.6 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 Sept. 17, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	19	18	43	82	722	32	31	21	18	13
2	18	15	18	18	36	71	882	31	75	77	17	10
3	18	16	19	17	33	67	418	29	45	35	19	10
4	18	15	17	18	29	208	322	28	28	57	16	11
5	17	15	16	19	28	267	201	27	24	479	13	17
6	16	14	18	20	28	180	151	24	22	91	11	16
7	17	15	18	20	26	116	131	22	19	43	11	11
8	15	18	18	25	26	90	114	21	19	35	13	11
9	13	23	18	43	25	79	100	21	30	58	11	9.3
10	13	35	18	37	30	70	90	21	23	38	11	8.5
11	15	30	17	29	35	63	84	22	16	28	38	8.9
12	17	20	17	28	36	60	75	21	16	24	61	9.8
13	17	17	17	34	58	75	71	19	25	23	25	8.8
14	16	30	19	35	57	78	81	18	103	19	47	8.1
15	17	58	20	28	56	125	66	18	39	16	36	6.8
16	15	28	26	28	71	342	62	21	54	14	18	5.8
17	16	23	79	27	675	177	56	40	28	14	14	5.7
18	17	20	72	30	538	121	50	39	17	14	26	5.9
19	16	21	36	82	168	93	45	25	15	16	40	7.4
20	16	22	31	362	112	100	44	29	15	19	17	11
21	15	27	31	291	88	527	44	30	14	14	14	26
22	14	22	26	117	82	608	43	37	22	14	12	15
23	12	19	22	74	83	286	45	35	37	11	12	12
24	15	19	20	57	82	165	56	34	30	13	14	22
25	17	26	20	49	103	126	102	26	223	15	31	70
26	19	70	17	37	231	103	113	165	91	58	14	27
27	20	41	20	34	130	90	57	144	36	61	10	13
28	18	26	21	33	98	78	45	60	32	51	9.8	9.3
29	17	22	22	31	---	222	38	54	21	24	9.9	8.6
30	16	20	20	36	---	1500	33	38	17	21	9.6	6.9
31	17	---	18	56	---	809	---	28	---	23	11	---
TOTAL	508	744	750	1733	3007	6978	4341	1159	1167	1426	609.3	404.8
MEAN	16.4	24.8	24.2	55.9	107	225	145	37.4	38.9	46.0	19.7	13.5
MAX	21	70	79	362	675	1500	882	165	223	479	61	70
MIN	12	14	16	17	25	60	33	18	14	11	9.6	5.7
CFSM	.09	.14	.14	.32	.62	1.29	.83	.21	.22	.26	.11	.08
IN.	.11	.16	.16	.37	.64	1.49	.93	.25	.25	.30	.13	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	164	109	127	277	293	356	260	172	80.6	54.7	52.7	75.3		
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	9.33	13.5	24.2	55.9	102	83.7	46.6	37.4	21.2	21.6	14.9	13.5		
(WY)	1999	1999	2001	2001	1999	1999	1995	2001	1999	1996	1990	2001		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	32206	22827.1		
ANNUAL MEAN	88.0	62.5	168	
HIGHEST ANNUAL MEAN			281	1990
LOWEST ANNUAL MEAN			62.5	2001
HIGHEST DAILY MEAN	945	Mar 17	1500	Mar 30
LOWEST DAILY MEAN	11	Jul 21	5.7	Sep 17
ANNUAL SEVEN-DAY MINIMUM	13	Aug 21	6.9	Sep 13
MAXIMUM PEAK FLOW			1610	Mar 30
MAXIMUM PEAK STAGE			10.42	Mar 30
INSTANTANEOUS LOW FLOW			5.5*	Sep 16
ANNUAL RUNOFF (CFSM)	.51		.36	.97
ANNUAL RUNOFF (INCHES)	6.89		4.88	13.12
10 PERCENT EXCEEDS	188		113	321
50 PERCENT EXCEEDS	45		26	71
90 PERCENT EXCEEDS	16		13	16

\* See REMARKS.

02121500 ABBOTTS CREEK AT LEXINGTON, NC--Continued

