

Water-Data Report 2007

**02121500 ABBOTTS CREEK AT LEXINGTON, NC**

Upper Pee Dee Basin  
Lower Yadkin Subbasin

LOCATION.--Lat 35°48'25", long 80°14'05" referenced to North American Datum of 1983, Davidson County, NC, 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>.

**SURFACE-WATER RECORDS**

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 0.5 mi upstream (station 354855080134201).

REMARKS.--No estimated daily discharges. Records fair. The City of Lexington diverted an average of 4.9 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 6.1 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 September 5, 1990. Minimum discharge for current water year also occurred August 21.

## 02121500 ABBOTTS CREEK AT LEXINGTON, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	44	56	140	204	105	164	88	77	33	47	17	9.4
2	43	53	133	453	147	2,690	89	69	28	38	11	8.4
3	35	47	97	280	125	2,170	83	67	70	29	10	7.9
4	29	42	86	220	106	399	78	65	133	26	29	7.3
5	29	40	83	291	100	276	72	80	95	23	28	7.8
6	29	41	86	672	95	228	66	87	85	20	12	8.0
7	28	61	86	508	97	185	73	83	62	22	9.8	7.5
8	64	282	79	1,970	95	145	70	63	44	19	9.0	8.0
9	71	169	68	1,390	91	120	67	58	37	18	8.4	7.3
10	44	103	70	407	88	111	69	57	32	18	8.2	6.3
11	37	83	70	274	85	107	91	57	73	24	7.1	7.0
12	31	397	71	228	84	96	734	57	175	37	6.4	6.6
13	32	313	67	195	101	91	495	67	94	29	6.3	6.8
14	27	159	67	174	1,330	88	204	61	79	20	5.1	13
15	25	105	66	157	742	86	2,190	51	55	17	5.5	94
16	24	1,580	66	141	249	292	4,390	47	54	16	6.2	35
17	91	3,010	62	124	182	752	1,440	48	83	49	5.7	15
18	603	506	58	116	159	304	365	54	47	61	5.5	11
19	196	258	59	138	136	197	260	49	37	43	4.7	10
20	100	193	58	126	126	159	198	43	42	26	4.1	9.7
21	79	205	57	121	126	140	160	43	39	20	11	9.6
22	63	2,850	69	453	126	122	146	40	30	15	20	9.8
23	64	2,810	167	296	112	114	129	37	27	12	28	9.2
24	52	589	102	195	101	107	116	37	28	27	14	8.3
25	44	284	570	160	248	105	104	34	80	23	8.9	8.0
26	41	198	1,370	138	639	102	93	32	193	33	7.4	8.0
27	50	154	413	127	261	91	120	31	58	17	18	7.5
28	204	132	229	124	181	85	138	32	42	16	15	7.2
29	135	115	165	115	---	116	100	30	85	46	19	7.4
30	78	109	127	104	---	128	94	29	67	24	21	6.3
31	63	---	110	104	---	94	---	31	---	20	14	---
<b>Total</b>	2,455	14,944	4,951	10,005	6,037	9,864	12,322	1,616	2,007	835	375.3	367.3
<b>Mean</b>	79.2	498	160	323	216	318	411	52.1	66.9	26.9	12.1	12.2
<b>Max</b>	603	3,010	1,370	1,970	1,330	2,690	4,390	87	193	61	29	94
<b>Min</b>	24	40	57	104	84	85	66	29	27	12	4.1	6.3
<b>Cfsm</b>	0.46	2.86	0.92	1.85	1.24	1.83	2.36	0.30	0.38	0.15	0.07	0.07
<b>In.</b>	0.52	3.19	1.06	2.14	1.29	2.11	2.63	0.35	0.43	0.18	0.08	0.08

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	144	136	172	243	267	342	270	150	117	76.3	65.9	144
<b>Max</b>	731	498	542	554	753	810	810	515	615	290	352	835
<b>(WY)</b>	(1990)	(2007)	(2003)	(1998)	(1990)	(2003)	(2003)	(1989)	(2003)	(2003)	(2003)	(2003)
<b>Min</b>	8.08	10.3	22.4	55.9	55.4	83.7	44.4	19.4	21.2	21.6	12.1	12.2
<b>(WY)</b>	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007 <sup>a</sup>	
Annual total	60,621		65,778.6			
Annual mean	166		180		177	
Highest annual mean					487	2003
Lowest annual mean					45.8	2002
Highest daily mean	3,860	Jun 28	4,390	Apr 16	8,000	Sep 23, 2003
Lowest daily mean	11	Aug 28	4.1	Aug 20	2.7	Sep 4, 1990
Annual seven-day minimum	16	Aug 23	5.3	Aug 14	3.9	Sep 1, 1990
Maximum peak flow			4,830	Apr 16	<sup>b</sup> 11,800	Sep 23, 2003
Maximum peak stage			16.12	Apr 16	23.48	Sep 23, 2003
Instantaneous low flow			<sup>b</sup> 3.3	Aug 20	<sup>b</sup> 2.4	Sep 4, 1990
Annual runoff (cfsm)	0.955		1.04		1.02	
Annual runoff (inches)	12.96		14.06		13.79	
10 percent exceeds	264		287		326	
50 percent exceeds	77		70		75	
90 percent exceeds	29		9.5		16	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.

