

Water-Data Report 2008

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 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 618.26 ft above North American Vertical Datum of 1988. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The City of Lexington diverted an average of 4.7 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.5 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 September 5, 1990. Minimum discharge for current water year also occurred August 24, 25.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.1	23	15	444	336	67	170	190	31	43	21	38
2	6.4	21	15	186	617	64	156	128	29	22	21	28
3	7.5	19	16	104	254	61	106	99	27	19	45	19
4	59	18	15	78	165	106	356	97	25	21	21	15
5	57	17	15	68	215	e800	875	86	24	64	13	14
6	27	16	14	66	186	e470	939	63	23	144	10	71
7	21	15	13	62	138	326	606	52	22	48	8.9	83
8	19	15	14	61	100	709	328	48	22	26	8.0	27
9	19	15	14	58	90	487	241	52	20	23	7.5	18
10	18	16	15	59	90	266	196	62	21	23	7.2	283
11	17	15	16	72	69	207	141	66	23	25	8.2	481
12	16	15	15	68	63	187	108	97	19	19	7.8	228
13	16	16	15	57	107	160	90	71	18	18	7.7	63
14	17	16	15	51	152	133	72	59	19	18	8.3	35
15	17	23	17	48	107	144	68	53	18	14	8.5	24
16	15	45	49	46	88	412	62	69	22	13	8.0	232
17	16	21	40	78	79	228	61	62	18	12	6.8	437
18	17	17	21	194	79	154	56	51	17	11	6.4	110
19	23	17	17	105	73	130	57	85	17	11	6.2	48
20	51	16	16	91	64	195	151	50	16	13	6.3	35
21	25	16	18	72	61	142	148	56	16	12	6.4	29
22	21	17	20	64	61	116	122	39	15	11	6.0	23
23	18	21	23	69	66	115	84	32	54	29	5.6	18
24	22	18	42	67	62	110	64	30	37	59	5.8	14
25	87	17	34	60	60	92	53	29	23	24	10	12
26	615	18	43	54	89	78	47	28	19	15	33	53
27	575	19	e80	54	171	74	56	26	17	17	1,180	270
28	96	18	e50	53	92	71	428	58	17	12	2,350	144
29	38	16	194	52	74	72	1,110	88	22	10	437	83
30	29	16	341	52	---	78	439	45	77	10	103	65
31	25	---	1,100	50	---	89	---	35	---	11	65	---
Total	1,996.0	552	2,312	2,643	3,808	6,343	7,390	2,006	728	797	4,438.6	3,000
Mean	64.4	18.4	74.6	85.3	131	205	246	64.7	24.3	25.7	143	100
Max	615	45	1,100	444	617	800	1,110	190	77	144	2,350	481
Min	6.1	15	13	46	60	61	47	26	15	10	5.6	12
Cfsm	0.37	0.11	0.43	0.49	0.75	1.18	1.42	0.37	0.14	0.15	0.82	0.57
In.	0.43	0.12	0.49	0.57	0.81	1.36	1.58	0.43	0.16	0.17	0.95	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	140	130	167	235	260	335	268	146	113	73.8	69.8	142
Max	731	498	542	554	753	810	810	515	615	290	352	835
(WY)	(1990)	(2007)	(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	12.1	12.2
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1988 - 2008 ^a	
Annual total	48,288.6		36,013.6			
Annual mean	132		98.4		173	
Highest annual mean					487	
Lowest annual mean					45.8	
Highest daily mean	4,390	Apr 16	2,350	Aug 28	8,000	Sep 23, 2003
Lowest daily mean	4.1	Aug 20	5.6	Aug 23	2.7	Sep 4, 1990
Annual seven-day minimum	5.3	Aug 14	6.1	Aug 18	3.9	Sep 1, 1990
Maximum peak flow			2,910	Aug 28	^b 11,800	Sep 23, 2003
Maximum peak stage			12.89	Aug 28	23.48	Sep 23, 2003
Instantaneous low flow			^b 5.3	Aug 23	^b 2.4	Sep 4, 1990
Annual runoff (cfsm)	0.760		0.566		0.993	
Annual runoff (inches)	10.32		7.70		13.49	
10 percent exceeds	228		199		322	
50 percent exceeds	42		46		73	
90 percent exceeds	9.0		13		15	

^aSee Period of Record.^bSee Remarks.