

Water-Data Report 2010

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 30 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 streamgage.

REMARKS.--No estimated daily discharges. Records fair. The City of Lexington diverted an average of 4.09 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.70 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 July 11.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	848	138	292	228	167	268	44	90	20	41	21
2	28	984	158	239	284	154	215	46	82	16	45	19
3	25	279	975	190	1,050	211	192	47	176	14	34	18
4	24	180	486	161	1,140	200	171	52	149	14	29	17
5	25	132	287	146	1,470	165	163	45	87	15	52	17
6	24	105	281	138	4,800	148	163	40	64	14	95	16
7	24	82	199	131	1,700	137	135	37	52	13	49	16
8	24	86	160	138	537	129	131	37	43	12	33	16
9	23	77	1,100	127	377	128	516	32	34	12	29	15
10	21	68	1,410	121	412	127	335	34	33	11	26	15
11	27	1,760	384	116	320	116	205	38	33	11	23	15
12	30	3,940	261	121	246	129	168	50	30	14	524	15
13	35	3,880	263	118	230	990	144	44	68	83	774	16
14	44	755	386	116	222	720	115	39	88	905	138	15
15	40	344	295	115	198	356	91	32	212	258	154	14
16	39	260	238	114	230	256	78	43	93	57	118	14
17	34	210	193	823	181	205	75	320	82	77	60	13
18	30	182	168	1,100	161	179	79	515	51	239	57	13
19	28	172	304	408	149	153	69	330	36	100	144	12
20	25	166	416	304	145	132	61	175	30	55	189	13
21	23	172	367	270	143	123	65	101	29	63	91	13
22	23	180	310	427	206	159	73	89	25	49	57	12
23	21	437	249	321	293	154	77	259	22	36	52	12
24	23	572	216	275	229	128	87	456	26	31	41	12
25	37	299	733	5,230	309	117	122	190	24	27	53	12
26	35	217	3,140	4,220	217	115	130	110	21	26	40	17
27	44	249	985	538	185	125	72	71	19	92	32	85
28	382	185	421	336	175	119	55	56	18	294	29	80
29	171	171	330	277	---	3,350	47	83	16	63	26	40
30	68	176	277	279	---	2,600	44	74	27	40	27	1,710
31	51	---	293	256	---	423	---	60	---	32	24	---
Total	1,462	17,168	15,423	17,447	15,837	12,215	4,146	3,549	1,760	2,693	3,086	2,303
Mean	47.2	572	498	563	566	394	138	114	58.7	86.9	99.5	76.8
Max	382	3,940	3,140	5,230	4,800	3,350	516	515	212	905	774	1,710
Min	21	68	138	114	143	115	44	32	16	11	23	12
Cfsm	0.27	3.29	2.86	3.23	3.25	2.26	0.79	0.66	0.34	0.50	0.57	0.44
In.	0.31	3.67	3.30	3.73	3.39	2.61	0.89	0.76	0.38	0.58	0.66	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	131	147	183	250	266	342	259	144	116	77.5	69.8	134
Max	731	572	542	563	753	810	810	515	615	290	352	835
(WY)	(1990)	(2010)	(2003)	(2010)	(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 2009		Water Year 2010		Water Years 1988 - 2010 ^a	
Annual total	81,705		97,089			
Annual mean	224		266		176	
Highest annual mean					487	2003
Lowest annual mean					45.8	2002
Highest daily mean	3,940	Nov 12	5,230	Jan 25	8,000	Sep 23, 2003
Lowest daily mean	13	Sep 13	11	Jul 10	2.7	Sep 4, 1990
Annual seven-day minimum	14	Sep 10	12	Sep 19	3.9	Sep 1, 1990
Maximum peak flow			7,350	Jan 25	^b 11,800	Sep 23, 2003
Maximum peak stage			19.29	Jan 25	23.48	Sep 23, 2003
Instantaneous low flow			^b 10	Jul 10	^b 2.4	Sep 4, 1990
Annual runoff (cfsm)	1.29		1.53		1.01	
Annual runoff (inches)	17.47		20.76		13.75	
10 percent exceeds	404		445		326	
50 percent exceeds	94		115		73	
90 percent exceeds	21		18		16	

^a See Period of Record.

^b See Remarks.

