

Water-Data Report 2010

**02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC**

Cape Fear Basin  
Haw Subbasin

LOCATION.--Lat 36°07'41", long 79°55'26" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on right bank on downstream side of culvert on Muirfield Road, 1.8 mi upstream from Lake Higgins and 3.8 mi northwest of Greensboro.

DRAINAGE AREA.--5.30 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 790 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for the current water year also occurred October 23.

## 02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.95	110	3.9	5.5	9.5	4.0	9.1	2.8	2.7	1.00	3.2	1.1
2	0.99	13	25	4.2	21	5.5	8.0	2.9	2.2	0.94	2.4	1.1
3	0.80	5.3	23	3.8	36	7.7	7.1	3.0	3.0	0.94	2.3	1.1
4	0.81	3.4	7.3	3.7	17	5.3	6.6	2.8	e1.8	0.91	2.1	0.99
5	1.3	2.5	11	3.7	98	4.3	6.2	2.6	1.6	0.85	2.3	0.97
6	1.2	2.1	7.3	3.6	49	4.2	5.8	2.5	1.4	0.81	2.9	0.96
7	1.1	2.1	4.5	3.5	13	4.9	5.4	2.5	1.3	0.77	2.1	0.97
8	0.85	2.3	4.6	3.6	9.0	4.2	15	2.3	1.2	0.78	1.8	1.1
9	0.82	1.7	64	3.2	8.8	3.8	33	2.1	1.3	1.00	1.8	1.1
10	22	6.1	13	3.1	9.3	3.5	8.4	2.1	1.3	0.97	2.8	0.99
11	3.9	169	7.7	3.1	6.4	5.5	5.9	2.3	1.2	0.81	21	1.1
12	3.7	239	5.9	3.9	5.8	9.1	4.6	2.4	1.2	1.4	103	1.2
13	4.1	30	22	3.3	6.0	50	4.1	2.3	17	45	7.2	1.1
14	2.2	11	12	3.2	5.1	14	3.8	2.2	8.6	74	4.3	0.96
15	5.2	7.3	6.7	3.3	6.5	7.7	3.7	2.2	4.6	6.2	4.2	0.91
16	2.2	6.0	4.9	3.0	6.2	6.0	3.6	6.4	10	3.5	2.8	0.89
17	1.3	5.0	4.3	61	4.6	5.3	3.5	34	3.9	110	2.5	0.88
18	1.0	4.9	4.6	13	4.3	4.6	3.3	12	2.0	17	5.9	0.86
19	0.92	7.0	12	6.5	3.8	3.5	3.3	5.5	1.6	5.8	5.8	0.88
20	0.79	5.3	14	5.1	3.5	3.1	3.3	3.5	1.5	3.6	3.3	0.87
21	0.76	4.1	12	14	3.4	3.0	3.7	2.5	1.3	2.7	2.4	0.87
22	0.81	4.2	8.8	19	8.0	3.4	3.4	3.8	1.2	2.3	2.1	0.98
23	0.76	43	6.9	7.7	7.0	2.9	3.2	14	1.1	2.1	2.0	0.96
24	5.8	13	5.6	8.7	7.6	2.9	3.3	6.7	1.1	1.9	1.6	0.90
25	2.8	7.1	86	186	5.7	2.9	9.0	6.5	1.0	1.7	1.6	0.89
26	1.1	5.5	29	19	3.6	3.3	4.4	3.1	1.0	1.5	1.5	5.1
27	14	6.3	10	10	3.8	3.2	3.2	2.2	1.0	4.7	1.4	14
28	46	4.2	7.7	8.7	3.9	94	3.0	2.2	0.97	3.6	1.4	6.5
29	6.8	3.6	5.8	7.9	---	168	2.8	8.5	0.95	2.3	1.3	15
30	3.7	3.8	4.8	9.3	---	22	2.8	2.5	0.98	2.0	1.2	263
31	2.4	---	6.6	8.7	---	12	---	3.3	---	2.2	1.2	---
<b>Total</b>	141.06	727.8	440.9	442.3	365.8	473.8	182.5	153.7	80.00	303.28	201.4	328.23
<b>Mean</b>	4.55	24.3	14.2	14.3	13.1	15.3	6.08	4.96	2.67	9.78	6.50	10.9
<b>Max</b>	46	239	86	186	98	168	33	34	17	110	103	263
<b>Min</b>	0.76	1.7	3.9	3.0	3.4	2.9	2.8	2.1	0.95	0.77	1.2	0.86
<b>Cfsm</b>	0.86	4.58	2.68	2.69	2.46	2.88	1.15	0.94	0.50	1.85	1.23	2.06
<b>In.</b>	0.99	5.11	3.09	3.10	2.57	3.33	1.28	1.08	0.56	2.13	1.41	2.30

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.81	10.2	8.56	6.89	6.07	8.58	7.13	3.41	6.13	5.88	4.10	8.25
<b>Max</b>	8.17	24.3	14.2	14.3	13.1	15.3	12.1	4.96	19.2	13.4	9.76	17.5
<b>(WY)</b>	(2008)	(2010)	(2010)	(2010)	(2010)	(2010)	(2007)	(2010)	(2006)	(2006)	(2008)	(2004)
<b>Min</b>	2.03	1.87	4.66	3.08	2.43	2.91	3.04	2.05	1.61	0.73	1.11	0.88
<b>(WY)</b>	(2006)	(2008)	(2007)	(2008)	(2009)	(2006)	(2006)	(2007)	(2007)	(2009)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2004 - 2010	
Annual total	2,640.93		3,840.77			
Annual mean	7.24		10.5		6.48	
Highest annual mean					10.5	2010
Lowest annual mean					4.67	2009
Highest daily mean	239	Nov 12	263	Sep 30	267	Jun 27, 2006
Lowest daily mean	0.44	Aug 19	0.76	Oct 21	0.23	Oct 12, 2007
Annual seven-day minimum	0.49	Aug 13	0.86	Jul 5	0.25	Oct 12, 2007
Maximum peak flow			672	Mar 28	672	Mar 28, 2010
Maximum peak stage			9.98	Mar 28	9.98	Mar 28, 2010
Instantaneous low flow			<sup>a</sup> 0.66	Oct 20	0.18	Oct 13, 2007
Annual runoff (cfsm)	1.37		1.99		1.22	
Annual runoff (inches)	18.54		26.96		16.60	
10 percent exceeds	14		16		11	
50 percent exceeds	2.0		3.6		2.6	
90 percent exceeds	0.67		0.98		0.94	

<sup>a</sup> See Remarks.

