



Water-Data Report 2012

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 mi².

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 August 3, 5.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.1	3.2	6.9	4.1	3.1	3.6	3.7	2.2	2.9	1.9	1.0	1.7
2	1.9	3.2	5.5	4.0	4.2	3.7	3.7	2.0	3.0	2.9	0.93	3.5
3	1.8	3.1	5.1	3.7	3.0	12	4.0	1.8	2.5	2.1	0.77	16
4	1.6	101	4.9	3.5	3.1	5.2	8.8	1.9	2.4	1.9	0.82	14
5	1.4	13	4.8	3.5	5.5	3.6	5.7	14	2.5	1.9	0.79	8.8
6	1.7	6.4	4.7	3.6	3.5	3.1	3.8	6.6	5.4	1.8	8.8	4.2
7	1.8	5.0	16	3.6	3.1	3.2	3.0	3.1	3.3	1.6	48	3.2
8	1.6	4.2	12	3.7	2.9	3.3	2.7	2.6	2.6	1.5	19	2.4
9	1.5	3.8	5.7	4.5	3.0	3.8	2.6	57	2.4	2.0	8.0	2.0
10	1.5	3.8	4.7	3.7	2.9	3.2	2.3	17	2.3	17	33	1.7
11	6.9	3.6	4.4	19	3.0	3.0	2.2	6.5	2.6	16	32	1.4
12	90	3.5	4.2	17	2.6	3.2	2.1	4.3	3.8	7.1	7.6	1.3
13	17	3.9	4.2	5.4	2.7	3.2	2.2	6.8	9.2	2.9	4.1	1.3
14	7.5	4.0	4.2	4.3	2.8	3.1	2.1	60	3.1	3.3	3.0	1.3
15	5.1	4.1	4.0	3.9	2.9	4.3	2.1	59	2.5	3.2	2.4	1.4
16	4.0	67	7.2	3.7	3.4	4.3	2.1	10	2.3	1.9	2.2	7.2
17	3.6	123	14	3.9	3.5	4.2	2.0	6.7	2.1	1.5	2.3	3.2
18	4.4	18	5.2	3.8	3.2	5.0	5.4	4.7	2.1	1.3	2.6	22
19	15	7.8	4.4	3.2	8.6	3.4	3.0	4.0	2.0	1.3	29	9.0
20	6.0	6.3	4.1	3.6	12	13	2.4	3.7	2.0	1.3	12	3.2
21	4.3	5.2	26	8.8	5.8	16	3.1	3.6	1.9	1.6	7.0	2.1
22	3.8	4.6	17	5.0	4.0	5.7	12	3.6	14	1.4	41	1.9
23	3.0	6.9	12	4.8	6.9	4.0	6.4	5.1	10	1.3	33	3.4
24	e2.7	4.6	6.1	4.5	13	29	3.2	3.9	3.7	1.1	6.3	1.5
25	2.5	4.0	5.0	3.7	9.7	38	2.5	3.7	2.7	1.1	3.6	1.2
26	2.4	3.9	4.6	3.4	4.2	10	6.2	3.3	2.2	1.0	2.5	1.3
27	2.6	3.9	20	3.6	3.6	5.9	3.9	3.2	2.1	1.3	2.2	1.1
28	2.9	4.5	8.9	3.1	3.4	4.7	2.6	3.0	2.0	1.6	4.1	1.5
29	14	80	5.5	2.9	3.4	4.1	2.5	2.8	1.9	1.1	16	31
30	5.0	12	4.8	2.8	---	3.6	2.3	2.8	1.8	1.1	3.6	11
31	3.8	---	4.6	2.8	---	4.4	---	2.5	---	1.0	2.1	---
Total	223.4	517.5	240.7	151.1	133.0	216.8	110.6	311.4	103.3	88.0	339.71	164.8
Mean	7.21	17.2	7.76	4.87	4.59	6.99	3.69	10.0	3.44	2.84	11.0	5.49
Max	90	123	26	19	13	38	12	60	14	17	48	31
Min	1.4	3.1	4.0	2.8	2.6	3.0	2.0	1.8	1.8	1.0	0.77	1.1
Cfsm	1.36	3.25	1.47	0.92	0.87	1.32	0.70	1.90	0.65	0.54	2.07	1.04
In.	1.57	3.63	1.69	1.06	0.93	1.52	0.78	2.19	0.73	0.62	2.38	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.43	10.0	7.86	6.21	5.65	8.41	6.68	4.28	5.56	5.19	4.58	8.10
Max	8.17	24.3	14.2	14.3	13.1	15.3	12.1	10.0	19.2	13.4	11.0	17.5
(WY)	(2008)	(2010)	(2010)	(2010)	(2010)	(2010)	(2007)	(2012)	(2006)	(2006)	(2012)	(2004)
Min	2.03	1.78	3.75	3.08	2.43	2.91	3.04	2.05	1.61	0.73	1.11	0.88
(WY)	(2006)	(2011)	(2011)	(2008)	(2009)	(2006)	(2006)	(2007)	(2007)	(2007)	(2009)	(2007)

02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2011	Water Year 2012	Water Years 2004 - 2012	
Annual total	2,354.31	2,600.31		
Annual mean	6.45	7.10	6.33	
Highest annual mean			10.5	2010
Lowest annual mean			4.67	2009
Highest daily mean	123 Nov 17	123 Nov 17	267 Jun 27, 2006	
Lowest daily mean	0.88 Jul 22	0.77 Aug 3	0.23 Oct 12, 2007	
Annual seven-day minimum	0.93 Aug 22	0.92 Jul 30	0.25 Oct 12, 2007	
Maximum peak flow		544 Nov 16	672 Mar 28, 2010	
Maximum peak stage		9.13 Nov 16	9.98 Mar 28, 2010	
Instantaneous low flow		^a 0.69 Aug 2	0.18 Oct 13, 2007	
Annual runoff (cfsm)	1.22	1.34	1.19	
Annual runoff (inches)	16.52	18.25	16.23	
10 percent exceeds	12	14	11	
50 percent exceeds	3.0	3.6	2.7	
90 percent exceeds	1.2	1.6	1.0	

^a See Remarks.

