



Water-Data Report 2011

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 November 10.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	e1.6	25	5.9	2.3	20	5.2	2.4	2.0	2.1	1.2	1.0
2	6.4	e1.5	5.2	9.7	7.7	5.6	3.8	2.4	1.9	1.6	1.1	1.2
3	4.1	e1.5	3.0	4.4	2.8	3.9	3.2	2.4	1.8	1.4	1.1	1.1
4	3.1	e9.4	3.4	2.9	4.3	3.3	3.1	14	1.7	1.4	1.2	1.0
5	2.6	e3.3	4.1	2.5	17	3.2	9.6	3.7	1.7	1.6	1.1	1.5
6	2.3	e1.9	2.6	2.9	5.7	36	4.0	2.8	1.6	5.6	1.3	71
7	2.2	e1.5	2.2	2.8	3.2	15	3.2	2.5	1.6	2.0	1.2	19
8	2.0	e1.5	2.0	2.7	2.7	5.7	3.0	3.0	1.6	8.0	1.1	4.3
9	1.9	e1.4	2.0	2.3	2.2	5.8	8.8	2.5	1.6	25	1.0	2.2
10	1.9	e1.4	2.1	2.3	2.3	30	10	2.3	2.2	3.5	0.98	1.6
11	1.8	e1.4	2.2	3.1	2.1	12	4.2	2.2	2.5	2.1	0.96	1.4
12	1.8	e1.4	5.2	3.2	2.0	5.4	3.5	2.3	2.3	1.6	3.6	1.3
13	1.8	e1.4	4.7	2.6	1.9	4.1	3.4	2.4	1.7	1.4	5.6	1.2
14	7.3	e1.3	2.2	2.4	2.0	3.6	2.8	2.7	1.5	1.3	4.7	1.2
15	2.5	e1.3	2.0	2.5	1.8	3.5	2.7	4.4	1.4	1.2	6.1	1.1
16	1.8	e1.5	3.4	2.7	1.9	5.9	55	9.3	1.4	1.1	1.5	1.0
17	1.7	e1.7	4.2	2.7	e2.0	3.6	15	22	1.3	1.2	1.2	1.1
18	1.7	e1.4	3.0	3.6	2.1	3.2	6.8	6.5	1.3	1.1	1.1	1.1
19	1.7	e1.3	2.6	3.0	2.0	3.0	4.6	3.5	1.4	1.0	1.1	1.2
20	2.5	e1.4	2.2	2.7	1.8	2.8	3.9	2.7	1.3	1.0	1.1	1.2
21	2.2	e1.4	2.2	2.5	1.9	2.8	3.5	2.4	1.3	0.96	1.1	2.5
22	1.7	e1.3	2.3	2.3	1.9	2.8	6.8	2.2	3.2	0.88	1.1	2.8
23	1.6	e1.4	2.2	2.2	1.8	3.9	5.9	7.3	1.5	1.5	0.92	115
24	1.6	e1.4	2.1	2.3	2.8	22	3.8	2.7	1.4	5.2	0.90	23
25	2.2	e1.3	2.6	2.4	14	5.0	3.3	2.4	1.3	3.7	0.90	7.2
26	25	e1.8	5.7	12	4.3	4.0	3.0	2.0	1.2	2.0	0.91	3.8
27	e42	e1.6	4.2	6.3	2.5	12	3.2	7.5	1.2	1.5	0.91	11
28	e11	e1.2	2.8	3.2	19	5.8	3.9	12	27	1.3	0.89	4.8
29	e3.4	e1.2	2.6	2.5	---	4.2	2.8	3.6	36	1.2	1.1	2.6
30	e2.2	1.7	2.7	2.3	---	25	2.5	2.4	4.0	1.1	1.1	2.2
31	e1.8	---	3.4	2.3	---	10	---	2.1	---	1.2	1.0	---
Total	167.8	53.4	116.1	107.2	118.0	273.1	194.5	142.6	111.9	85.74	49.07	290.6
Mean	5.41	1.78	3.75	3.46	4.21	8.81	6.48	4.60	3.73	2.77	1.58	9.69
Max	42	9.4	25	12	19	36	55	22	36	25	6.1	115
Min	1.6	1.2	2.0	2.2	1.8	2.8	2.5	2.0	1.2	0.88	0.89	1.0
Cfsm	1.02	0.34	0.71	0.65	0.80	1.66	1.22	0.87	0.70	0.52	0.30	1.83
In.	1.18	0.37	0.81	0.75	0.83	1.92	1.37	1.00	0.79	0.60	0.34	2.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.04	8.97	7.87	6.40	5.81	8.61	7.05	3.56	5.83	5.49	3.78	8.43
Max	8.17	24.3	14.2	14.3	13.1	15.3	12.1	4.96	19.2	13.4	9.76	17.5
(WY)	(2008)	(2010)	(2010)	(2010)	(2010)	(2010)	(2007)	(2010)	(2006)	(2006)	(2008)	(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 2010	Water Year 2011	Water Years 2004 - 2011	
Annual total	2,868.31	1,710.01		
Annual mean	7.86	4.68	6.22	
Highest annual mean			10.5	2010
Lowest annual mean			4.67	2009
Highest daily mean	263	Sep 30	115	Sep 23
Lowest daily mean	0.77	Jul 7	0.88	Jul 22
Annual seven-day minimum	0.86	Jul 5	0.93	Aug 22
Maximum peak flow			422	Sep 23
Maximum peak stage			8.26	Sep 23
Instantaneous low flow			^a 0.62	Nov 9
Annual runoff (cfsm)	1.48	0.884		1.17
Annual runoff (inches)	20.13	12.00		15.95
10 percent exceeds	12	9.0		11
50 percent exceeds	2.9	2.3		2.5
90 percent exceeds	1.1	1.2		0.97

^a See Remarks.

