

Water-Data Report 2008

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 and 1.8 mi upstream from Lake Higgins and 8.5 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 station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

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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	0.71	1.8	1.9	8.2	30	2.0	8.9	3.9	2.1	5.6	e4.1	2.9
2	0.69	1.7	2.0	4.7	10	1.9	3.3	2.9	1.7	2.5	e1.8	2.2
3	0.68	1.5	1.9	3.4	4.5	1.8	8.5	2.5	1.7	1.7	e1.1	2.0
4	0.54	1.5	1.8	3.2	7.9	27	23	2.3	1.9	1.7	e0.85	1.8
5	0.56	1.5	2.0	2.8	7.8	46	45	2.0	1.7	3.2	e0.72	1.7
6	0.49	1.5	1.8	2.7	3.7	9.1	39	1.9	1.7	8.6	e0.66	38
7	0.48	1.4	1.9	2.8	2.9	18	12	1.8	1.6	2.0	e0.60	7.2
8	0.44	1.5	2.2	2.8	2.5	24	6.1	2.1	1.7	1.7	e0.55	2.4
9	0.41	1.7	2.0	2.6	2.3	8.1	4.2	32	1.6	8.3	e0.50	1.7
10	0.38	1.6	2.0	3.0	2.1	4.6	3.5	5.9	1.4	5.8	e1.2	3.1
11	0.31	1.5	2.0	3.5	1.8	3.8	3.1	4.6	1.4	4.2	e0.61	11
12	0.23	1.5	1.9	2.7	2.2	3.0	2.9	3.7	4.9	1.8	e0.56	5.8
13	0.24	1.5	2.2	2.6	6.7	2.6	2.7	2.8	3.8	1.6	e0.60	2.4
14	0.26	1.7	1.9	2.2	5.3	2.5	2.6	2.5	2.0	1.7	e1.8	1.9
15	0.24	6.8	2.1	2.1	2.9	9.2	2.6	2.4	2.0	1.5	e0.70	1.5
16	0.25	2.3	10	1.9	2.3	7.8	2.3	3.9	1.6	1.3	e0.61	59
17	0.27	1.6	2.1	11	2.2	3.0	2.3	2.3	1.5	1.2	e0.57	17
18	0.25	1.5	1.7	5.7	2.6	2.5	2.1	3.5	1.3	1.2	e0.52	4.7
19	9.3	1.5	1.7	3.1	2.0	3.7	2.3	3.9	1.2	1.2	e0.48	2.7
20	1.4	1.6	1.6	2.7	1.9	7.6	38	2.4	1.2	1.2	e0.43	2.2
21	0.44	1.5	2.1	2.1	1.8	2.7	21	2.1	1.3	1.2	e1.9	2.0
22	0.35	2.8	1.6	2.1	2.0	2.4	7.0	2.0	2.0	1.1	e0.71	1.8
23	0.33	1.8	7.9	2.3	2.0	2.0	4.1	1.8	7.9	1.7	e0.52	1.7
24	4.4	1.6	3.5	2.0	2.1	2.4	3.1	1.8	2.2	2.1	e0.48	1.6
25	55	1.7	1.9	1.8	2.3	2.0	2.9	1.8	1.8	1.4	e0.44	1.5
26	130	1.9	7.2	1.9	6.5	2.0	2.5	1.7	1.4	e1.1	7.3	41
27	29	1.9	3.0	1.8	3.2	1.7	5.7	1.7	1.3	e0.92	202	19
28	7.2	2.0	8.5	1.8	2.2	1.7	54	2.3	1.3	e0.85	38	4.5
29	3.4	1.9	16	1.8	2.3	3.5	20	2.1	3.5	e0.80	9.7	2.5
30	2.8	1.9	34	2.3	---	2.2	6.4	1.8	36	e0.78	16	2.0
31	2.2	---	25	1.8	---	7.9	---	2.2	---	e1.6	6.7	---
Total	253.25	56.2	157.4	95.4	128.0	218.7	341.1	110.6	96.7	71.55	302.71	248.8
Mean	8.17	1.87	5.08	3.08	4.41	7.05	11.4	3.57	3.22	2.31	9.76	8.29
Max	130	6.8	34	11	30	46	54	32	36	8.6	202	59
Min	0.23	1.4	1.6	1.8	1.8	1.7	2.1	1.7	1.2	0.78	0.43	1.5
Cfs/m	1.54	0.35	0.96	0.58	0.83	1.33	2.15	0.67	0.61	0.44	1.84	1.56
In.	1.78	0.39	1.10	0.67	0.90	1.54	2.39	0.78	0.68	0.50	2.12	1.75

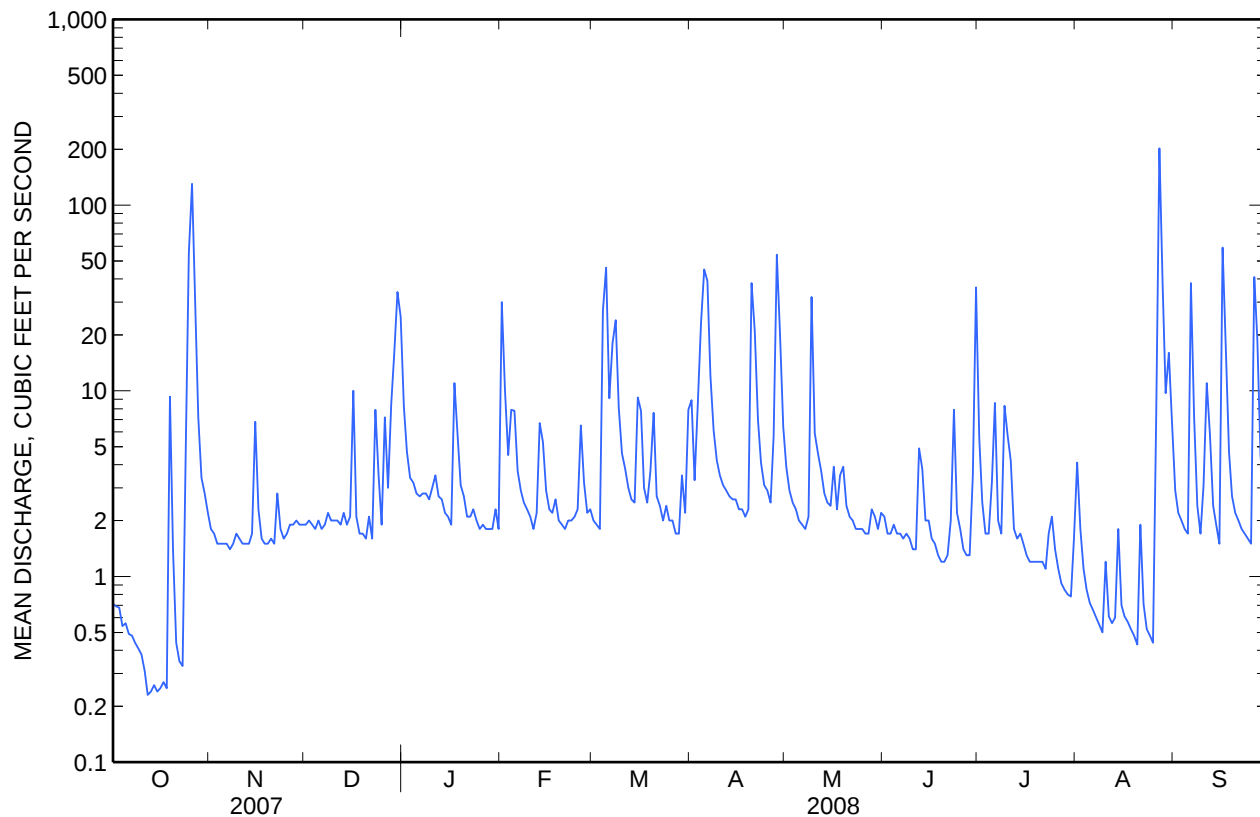
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.06	8.13	7.78	5.47	5.24	6.66	7.75	2.95	6.19	6.12	4.11	8.21
Max	8.17	15.7	11.4	7.18	6.09	8.58	12.1	3.57	19.2	13.4	9.76	17.5
(WY)	(2008)	(2007)	(2006)	(2007)	(2007)	(2005)	(2007)	(2008)	(2006)	(2006)	(2008)	(2004)
Min	2.03	1.87	4.66	3.08	4.41	2.91	3.04	2.05	1.61	1.61	1.11	0.88
(WY)	(2006)	(2008)	(2007)	(2008)	(2008)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2004 - 2008	
Annual total	1,696.48		2,080.41			
Annual mean	4.65		5.68		5.91	
Highest annual mean					7.42	2006
Lowest annual mean					5.21	2005
Highest daily mean	136	Apr 15	202	Aug 27	267	Jun 27, 2006
Lowest daily mean	0.23	Oct 12	0.23	Oct 12	0.23	Oct 12, 2007
Annual seven-day minimum	0.25	Oct 12	0.25	Oct 12	0.25	Oct 12, 2007
Maximum peak flow			498	Aug 27	531	Jun 27, 2006
Maximum peak stage			8.83	Aug 27	9.06	Jun 27, 2006
Instantaneous low flow			0.18	Oct 13	0.18	Oct 13, 2007
Annual runoff (cfs)	0.877		1.07		1.12	
Annual runoff (inches)	11.91		14.60		15.16	
10 percent exceeds	6.8		9.1		9.6	
50 percent exceeds	1.9		2.1		2.6	
90 percent exceeds	0.73		0.71		0.98	



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

INSTRUMENTATION.--Tipping bucket raingage and data collection platform. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.90	0.00	0.19	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.08	0.00	0.55	0.01	0.00	0.00	0.00	0.00
4	0.04	0.00	0.00	0.00	0.28	1.71	0.70	0.00	0.00	0.13	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.18	0.01	0.00	0.17	0.00	0.02
6	0.00	0.01	0.00	0.00	0.01	0.00	0.28	0.00	0.00	0.08	0.00	0.88
7	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.69	0.00	0.04	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.51	0.00	0.01
10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.03
11	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.17	0.00	0.04	0.00	0.20
12	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01	0.48	0.00	0.00	0.03
13	0.00	0.02	0.00	0.00	0.21	0.00	0.00	0.00	0.01	0.01	0.49	0.00
14	0.00	0.00	0.00	0.00	0.12	0.00	0.05	0.00	0.06	0.04	0.01	0.00
15	0.00	0.43	0.19	0.00	0.00	0.54	0.00	0.20	0.00	0.00	0.09	0.00
16	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	1.33
17	0.00	0.00	0.00	0.17	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.12	0.01	0.00	0.00	0.27	0.00	0.00	0.00	0.00
19	1.00	0.00	0.00	0.00	0.00	0.23	0.41	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.01	0.00	0.00	0.14	1.29	0.00	0.00	0.00	0.12	0.00
21	0.00	0.00	0.08	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	0.00
22	0.00	0.14	0.00	0.04	0.02	0.00	0.00	0.00	0.60	0.00	0.00	0.00
23	0.03	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.04	0.29	0.00	0.00
24	0.61	0.00	0.00	0.00	0.09	0.04	0.00	0.01	0.00	0.00	0.00	0.00
25	1.19	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
26	2.14	0.02	0.27	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.67	0.71
27	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.08	0.00	0.00	4.38	0.06
28	0.00	0.00	0.64	0.00	0.00	0.00	1.10	0.12	0.00	0.00	0.02	0.00
29	0.00	0.00	0.04	0.00	0.00	0.22	0.00	0.00	0.79	0.06	0.00	0.00
30	0.00	0.00	1.00	0.10	---	0.01	0.00	0.00	0.90	0.00	0.07	0.03
31	0.00	---	0.01	0.00	---	0.26	---	0.23	---	0.22	0.00	---
Total	5.01	0.66	2.73	0.58	2.12	3.96	5.56	2.18	2.88	1.65	5.93	3.30

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