02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°03′36″, long 79°43′33″ referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank at upstream side of bridge on Secondary Road 3000, 3.8 mi east of Greensboro, 4.0 mi downstream from Bull Run Creek.

DRAINAGE AREA.--34 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to September 1958. August 1998 to current year. Prior to October 1952, published as "Buffalo Creek near Greensboro".

REVISED RECORDS.--WSP 972: 1928-40 (annual maximum discharge), 1928-33, 1935-37, 1939, (daily discharges). WSP 1303: Drainage area, 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: 1931 (daily discharges), 1941 (annual maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 689.60 ft above North American Vertical Datum of 1988. Prior to September 1958, at datum of 696.2 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge 10,000 ft^3/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft^3/s based on contracted-opening measurement, at site and datum then in use.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 02095000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/02095000.2011.pdf

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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	50	5.6	273	18	8.1	128	29	7.3	3.8	5.7	4.8	e2.0
2	13	5.3	16	51	51	20	19	6.8	3.5	4.2	3.1	3.2
3	8.4	6.3	9.9	21	13	13	15	6.5	3.2	3.5	3.3	e2.8
4	6.5	71	13	11	27	11	13	291	3.0	3.8	3.6	e2.4
5	5.7	17	20	9.6	167	9.7	250	21	2.7	4.3	3.7	3.4
6	5.2	8.3	10	17	28	376	32	12	2.6	126	13	451
7	4.9	6.2	9.5	11	16	68	18	9.2	2.5	27	4.3	51
8	4.5	6.1	7.1	8.7	13	23	15	16	2.3	20	2.5	4.7
9	4.3	6.2	7.3	e6.5	11	22	124	10	10	449	2.0	2.8
10	4.3	6.5	6.8	7.0	11	296	109	6.9	6.2	15	1.7	2.3
11	4.0	6.2	6.7	14	10	71	26	6.4	311	7.3	1.5	2.1
12	4.0	5.8	20	20	9.6	26	19	9.7	94	5.5	72	2.0
13	4.3	5.6	27	17	9.5	18	18	7.5	29	4.5	141	2.1
14	134	5.8	9.2	18	9.1	14	13	20	6.0	4.0	25	2.0
15	12	5.8	7.4	13	8.6	13	11	24	4.4	3.8	67	e1.8
16	5.8	6.0	27	9.2	8.7	38	290	29	4.0	3.5	5.9	e1.7
17	4.8	5.8	25	8.9	8.7	14	49	80	3.4	3.4	3.8	e1.7
18	4.5	5.4	11	15	8.7	12	18	28	3.8	3.2	3.2	e1.6
19	4.3	5.4	9.4	11	8.5	10	14	9.2	10	17	2.9	e1.6
20	12	5.6	8.0	8.8	7.8	9.0	13	6.8	3.6	4.4	2.6	e1.5
21	11	5.6	7.4	8.2	8.2	9.5	10	5.9	2.7	3.5	4.9	93
22	5.2	5.7	7.5	7.5	8.1	9.1	52	5.3	136	3.1	3.3	35
23	4.2	6.3	7.3	e7.1	7.9	13	36	45	6.7	2.6	2.3	1,120
24	3.9	5.5	6.5	7.0	16	196	13	7.8	3.9	32	1.9	187
25	10	5.6	9.9	7.0	75	19	9.5	6.2	3.0	19	1.8	17
26	137	15	40	75	16	14	8.6	5.3	2.5	6.5	1.6	8.8
27	148	9.6	23	27	10	101	13	4.4	4.1	6.0	e1.6	5.4
28	43	5.5	12	12	186	32	97	26	206	3.4	e1.4	277
29	10	5.3	10	10	---	20	17	7.9	260	2.7	12	9.3
30	7.0	8.5	10	8.8	---	363	8.8	5.1	11	2.5	11	4.6
31	6.2	---	12	8.3	---	57	---	4.3	---	2.7	2.7	---
Total	682.0	268.5	668.9	473.6	761.5	2,025.3	1,359.9	730.5	1,144.9	799.1	411.4	2,300.8
Mean	22.0	8.95	21.6	15.3	27.2	65.3	45.3	23.6	38.2	25.8	13.3	76.7
Max	148	71	273	75	186	376	290	291	311	449	141	1,120
Min	3.9	5.3	6.5	6.5	7.8	9.0	8.6	4.3	2.3	2.5	1.4	1.5
Cfsm	0.65	0.26	0.63	0.45	0.80	1.92	1.33	0.69	1.12	0.76	0.39	2.26
In.	0.75	0.29	0.73	0.52	0.83	2.22	1.49	0.80	1.25	0.87	0.45	2.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2011[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.5	36.0	44.2	55.8	62.3	61.7	52.4	28.2	35.3	38.3	26.5	45.8
Max	142	185	130	179	135	197	210	129	166	307	131	218
(WY)	(2003)	(2010)	(2003)	(1937)	(1953)	(2003)	(2003)	(2003)	(2003)	(1949)	(2003)	(2000)
Min	1.82	3.53	6.86	7.87	14.0	14.6	8.68	6.19	4.40	2.64	2.33	2.26
(WY)	(1931)	(1932)	(1934)	(1942)	(1931)	(2006)	(2002)	(2002)	(1933)	(1932)	(1932)	(1930)

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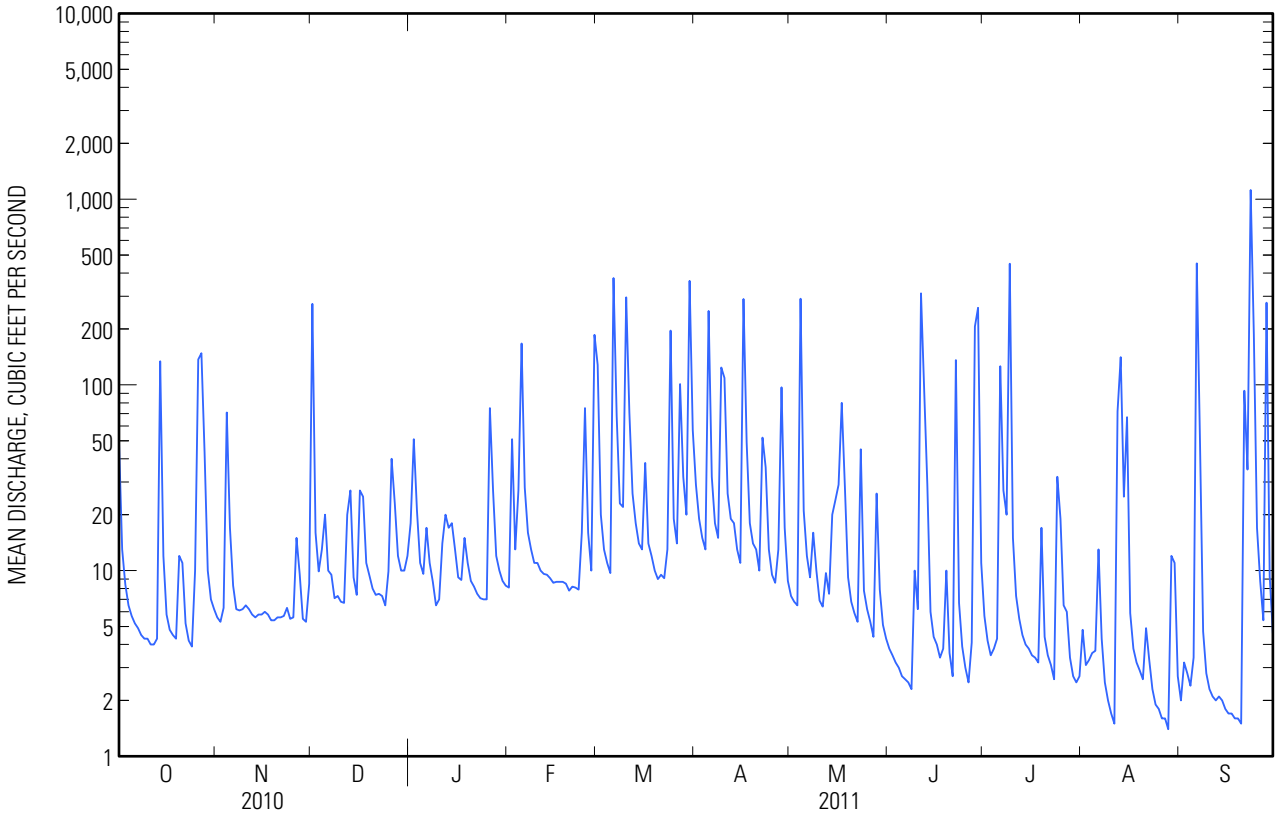
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1928 - 2011[a]	
Annual total	17,315.4		11,626.4			
Annual mean	47.4		31.9		42.4	
Highest annual mean					137	2003
Lowest annual mean					21.0	1942
Highest daily mean	1,870	Sep 30	1,120	Sep 23	5,460	Jul 15, 1949
Lowest daily mean	1.8	Sep 24	1.4	Aug 28	0.42	Aug 4, 2002
Annual seven-day minimum	1.9	Sep 19	1.7	Sep 14	0.57	Jul 31, 2002
Maximum peak flow			2,150	Sep 23	[b]10,000	Jul 15, 1945
Maximum peak stage			12.45	Sep 23	14.37	Mar 20, 2003
Instantaneous low flow			1.1	Aug 12	Not determined	
Annual runoff (cfsm)	1.40		0.937		1.25	
Annual runoff (inches)	18.95		12.72		16.96	
10 percent exceeds	67		71		77	
50 percent exceeds	11		8.8		14	
90 percent exceeds	3.9		2.8		4.3	

[a] See Period of Record
[b] See Remarks.



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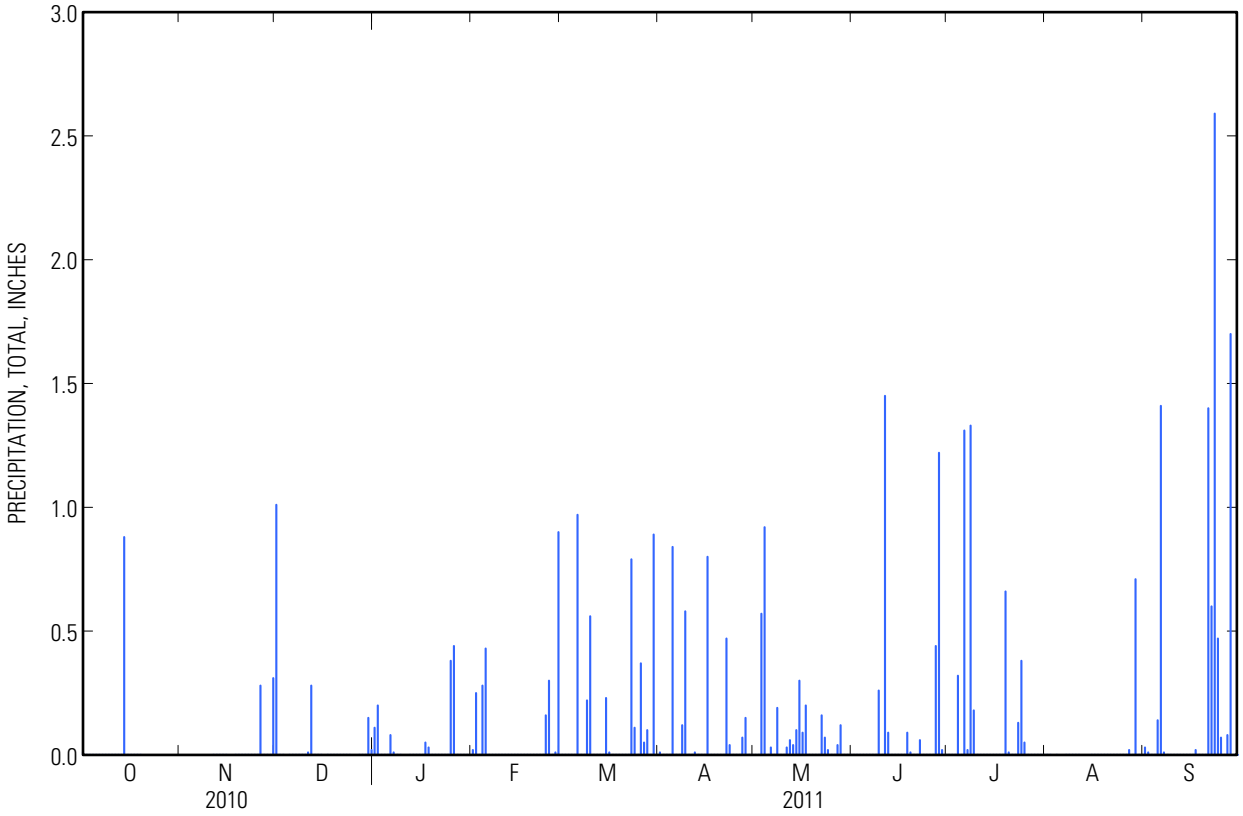
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	---	1.01	0.11	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.03
2	0.00	---	0.00	0.20	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.01
3	0.00	---	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	---	0.00
4	0.00	---	---	0.00	0.28	0.00	0.00	0.92	0.00	0.32	0.00	0.00
5	0.00	---	0.00	0.00	0.43	0.00	0.84	0.00	0.00	0.00	---	0.14
6	0.00	---	0.00	0.08	0.00	0.97	0.00	0.03	0.00	1.31	---	1.41
7	0.00	---	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01
8	0.00	---	0.00	0.00	0.00	0.00	0.12	0.19	0.00	1.33	0.00	0.00
9	0.00	---	0.00	0.00	0.00	0.22	0.58	0.00	0.26	0.18	0.00	0.00
10	0.00	---	0.00	---	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	---	0.00	0.00	0.00	0.03	1.45	0.00	0.00	0.00
12	0.00	0.00	0.28	0.00	0.00	0.00	0.01	0.06	0.09	0.00	---	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	0.00
14	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	---	0.00
15	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.30	0.00	0.00	0.00	0.00
16	0.00	---	---	0.00	0.00	0.01	0.80	0.09	0.00	0.00	0.00	0.00
17	0.00	---	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.02
18	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.66	0.00	0.00
20	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
22	---	0.00	0.00	0.00	0.00	0.00	0.47	0.16	0.06	0.00	0.00	0.60
23	---	0.00	0.00	0.00	0.00	0.79	0.04	0.07	0.00	0.13	0.00	2.59
24	---	0.00	0.00	0.00	0.16	0.11	0.00	0.02	0.00	0.38	0.00	0.47
25	---	0.00	---	0.38	0.30	0.00	0.00	0.00	0.00	0.05	0.00	0.07
26	---	0.28	---	0.44	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00
27	---	0.00	0.00	0.00	0.01	0.05	0.07	0.04	0.44	0.00	0.02	0.08
28	---	0.00	0.00	0.00	0.90	0.10	0.15	0.12	1.22	0.00	0.00	1.70
29	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	0.00	0.71	0.00
30	---	0.31	0.15	0.00	---	0.89	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	---	---	---	---	2.35	4.30	3.09	2.94	3.64	4.39	---	8.53

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