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.

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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	3.3	5.7	20	16	9.2	17	23	11	138	3.1	3.9	5.5
2	3.0	4.8	14	16	25	8.8	20	11	34	8.7	4.0	60
3	2.9	4.7	12	11	11	144	22	9.8	8.3	6.9	3.7	618
4	2.9	1,120	10	9.9	11	26	115	8.7	5.8	3.6	28	100
5	3.1	42	9.9	10	54	18	38	23	5.5	3.0	5.4	29
6	3.1	18	10	9.9	14	15	56	20	118	2.9	4.1	30
7	2.6	12	170	9.5	11	13	21	8.4	14	8.0	31	22
8	2.6	10	79	9.1	9.8	12	16	11	7.3	2.9	75	35
9	2.8	9.0	21	18	9.5	22	14	296	5.9	226	20	21
10	2.4	8.7	16	13	9.0	14	13	43	5.0	732	218	7.5
11	66	8.2	14	299	9.2	12	12	14	31	196	415	5.9
12	291	7.6	13	206	8.2	12	12	9.7	44	20	152	5.3
13	41	7.6	12	28	8.4	12	12	8.4	58	11	15	5.8
14	30	7.7	12	18	8.5	11	11	294	9.2	20	8.3	4.7
15	9.3	8.0	12	14	9.0	11	11	206	5.9	33	6.2	4.5
16	6.1	227	37	12	13	13	11	27	5.2	8.9	5.6	70
17	5.3	592	158	12	17	14	11	14	4.7	6.9	5.0	12
18	30	44	23	20	9.2	28	34	9.9	4.7	6.5	4.7	175
19	367	22	17	11	87	12	15	8.4	5.8	5.3	892	46
20	34	16	15	12	70	84	12	7.6	4.7	118	61	9.3
21	12	14	386	92	15	118	19	6.9	4.2	127	e18	6.6
22	7.5	12	202	25	10	19	169	17	41	41	e137	5.7
23	6.2	37	127	19	57	14	45	78	86	11	145	6.0
24	5.4	15	33	20	56	509	17	11	9.5	7.1	14	5.1
25	4.7	12	23	13	33	481	14	7.8	6.3	6.2	9.2	4.7
26	5.4	11	20	13	10	58	45	6.5	5.5	5.2	7.6	4.7
27	4.5	11	340	33	9.4	31	23	6.0	4.9	4.8	7.0	4.6
28	4.2	11	72	15	8.5	24	13	6.8	6.7	5.1	6.5	5.5
29	147	994	24	11	9.2	22	12	7.8	7.6	12	23	269
30	15	42	18	10	---	19	11	12	4.8	5.4	7.6	43
31	7.1	---	15	9.8	---	23	---	6.1	---	4.1	5.9	---
Total	1,127.4	3,334.0	1,934.9	1,015.2	611.1	1,816.8	847	1,206.8	691.5	1,651.6	2,338.7	1,621.4
Mean	36.4	111	62.4	32.7	21.1	58.6	28.2	38.9	23.1	53.3	75.4	54.0
Max	367	1,120	386	299	87	509	169	296	138	732	892	618
Min	2.4	4.7	9.9	9.1	8.2	8.8	11	6.0	4.2	2.9	3.7	4.5
Cfsm	1.07	3.27	1.84	0.96	0.62	1.72	0.83	1.14	0.68	1.57	2.22	1.59
In.	1.23	3.65	2.12	1.11	0.67	1.99	0.93	1.32	0.76	1.81	2.56	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.7	37.7	44.6	55.3	61.3	61.7	51.8	28.4	35.0	38.6	27.5	46.0
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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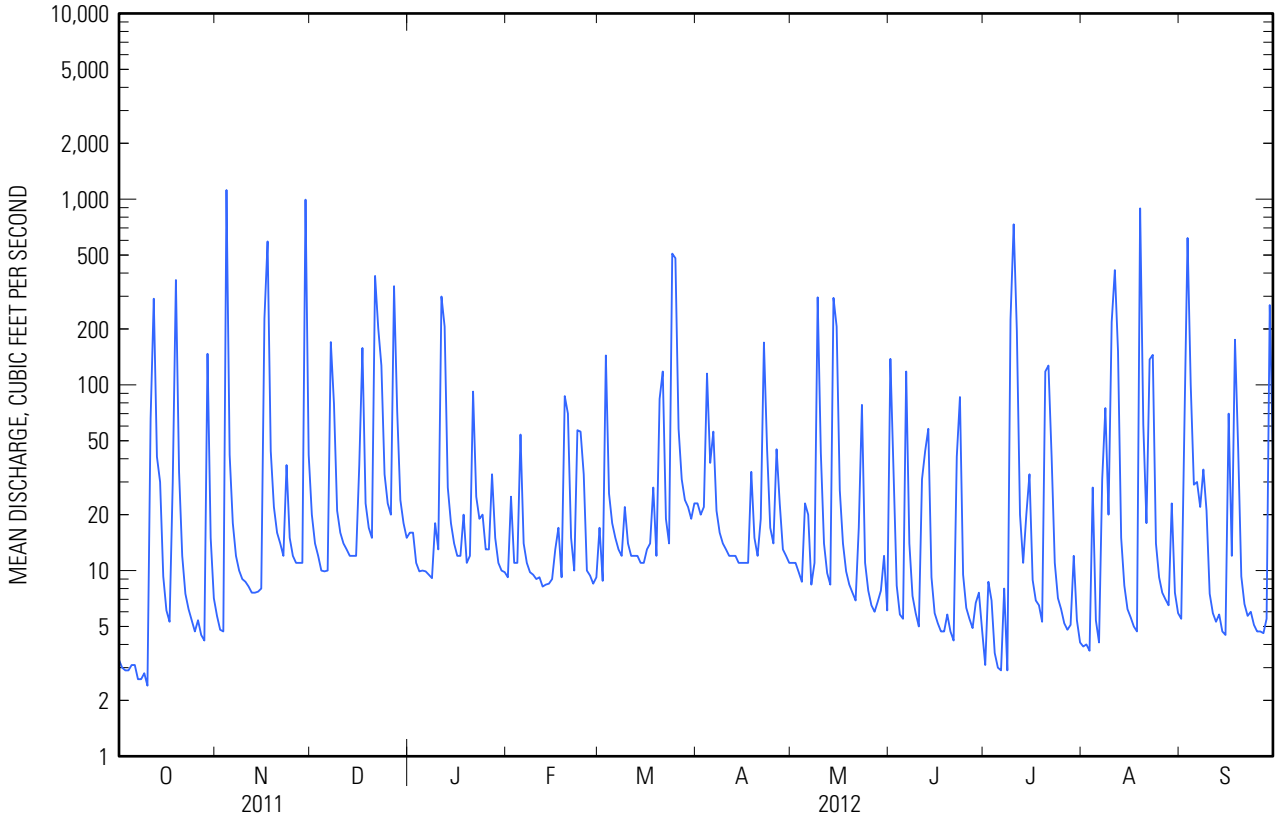
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1928 - 2012[a]	
Annual total	16,403.3		18,196.4			
Annual mean	44.9		49.7		42.6	
Highest annual mean					137	2003
Lowest annual mean					21.0	1942
Highest daily mean	1,120	Sep 23	1,120	Nov 4	5,460	Jul 15, 1949
Lowest daily mean	1.4	Aug 28	2.4	Oct 10	0.42	Aug 4, 2002
Annual seven-day minimum	1.7	Sep 14	2.8	Oct 4	0.57	Jul 31, 2002
Maximum peak flow			2,400	Nov 4	[b]10,000	Jul 15, 1945
Maximum peak stage			12.95	Nov 4	14.37	Mar 20, 2003
Instantaneous low flow			1.9	Jul 9	Not determined	
Annual runoff (cfsm)	1.32		1.46		1.25	
Annual runoff (inches)	17.95		19.91		17.03	
10 percent exceeds	104		121		78	
50 percent exceeds	10		12		14	
90 percent exceeds	2.7		4.8		4.3	

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



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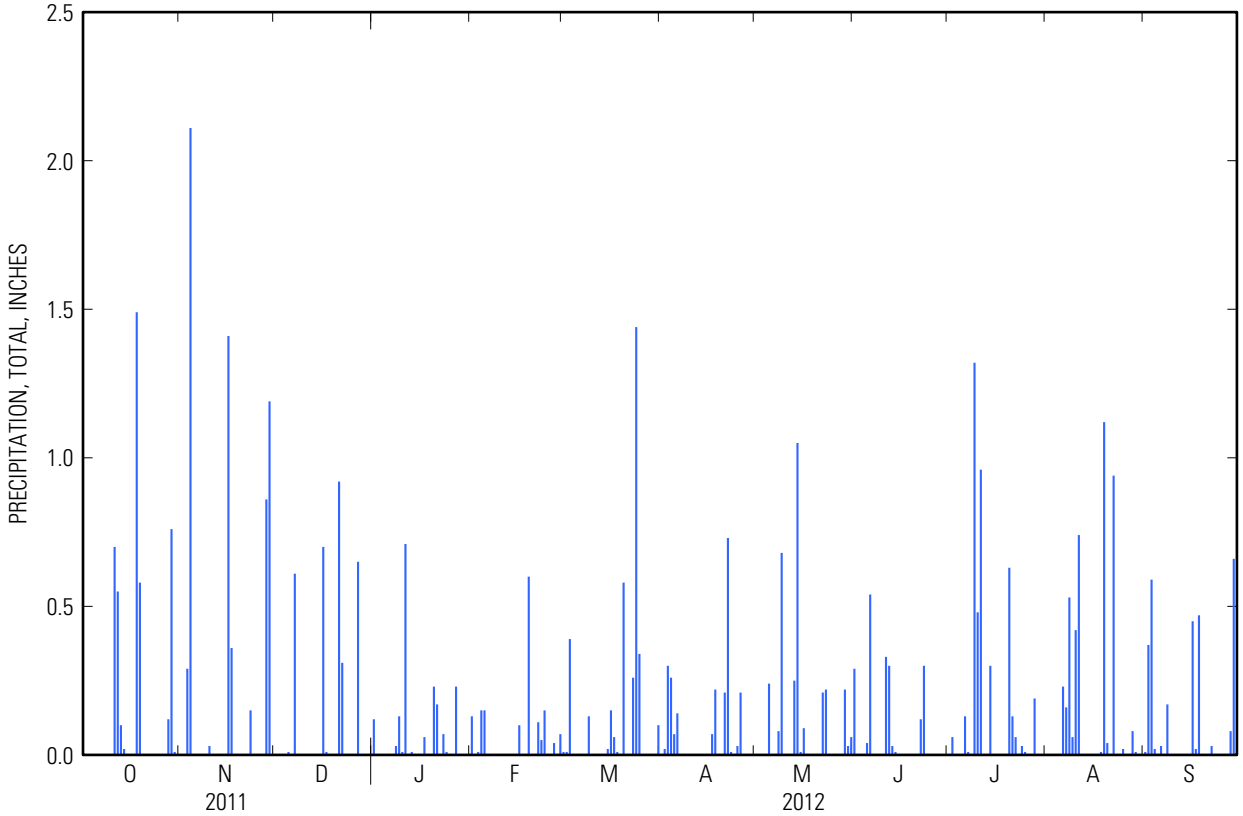
CLIMATOLOGICAL RECORDS

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 2011 TO SEPTEMBER 2012
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.12	0.13	0.01	0.00	0.00	0.29	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.06	0.00	0.37
3	0.00	0.29	0.00	0.00	0.01	0.39	0.30	0.00	0.00	0.00	0.00	0.59
4	0.00	2.11	0.00	0.00	0.15	0.00	0.26	0.00	0.00	0.00	0.00	0.02
5	0.00	0.00	0.01	0.00	0.15	0.00	0.07	0.24	0.04	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.54	0.13	0.23	0.03
7	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.16	0.00
8	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.00	0.00	0.53	0.17
9	0.00	0.00	0.00	0.13	0.00	0.13	0.00	0.68	0.00	1.32	0.06	0.00
10	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.48	0.42	0.00
11	0.70	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.33	0.96	0.74	0.00
12	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00
13	0.10	0.00	0.00	0.01	0.00	0.00	0.00	0.25	0.03	0.00	0.00	0.00
14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.01	0.30	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	1.41	0.70	0.00	0.10	0.15	0.00	0.09	0.00	0.00	0.00	0.45
17	0.00	0.36	0.01	0.06	0.00	0.06	0.07	0.00	0.00	0.00	0.00	0.02
18	1.49	0.00	0.00	0.00	0.00	0.01	0.22	0.00	0.00	0.00	0.01	0.47
19	0.58	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	1.12	0.00
20	0.00	0.00	0.00	0.23	0.00	0.58	0.00	0.00	0.00	0.63	0.04	0.00
21	0.00	0.00	0.92	0.17	0.00	0.00	0.21	0.00	0.00	0.13	0.00	0.00
22	0.00	0.00	0.31	0.00	0.11	0.00	0.73	0.21	0.12	0.06	0.94	0.03
23	0.00	0.15	0.00	0.07	0.05	0.26	0.01	0.22	0.30	0.00	0.00	0.00
24	0.00	0.00	0.00	0.01	0.15	1.44	0.00	0.00	0.00	0.03	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.34	0.03	0.00	0.00	0.01	0.02	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.65	0.23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.12	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.08	0.08
29	0.76	1.19	0.00	0.00	0.07	0.00	0.00	0.22	0.00	0.00	0.01	0.66
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.03	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.10	---	0.06	---	0.00	0.00	---
Total	4.33	6.40	3.21	1.78	1.56	3.50	2.27	3.14	1.96	4.31	4.36	2.90

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