

Water-Data Report 2008

03450000 BEETREE CREEK NEAR SWANNANOA, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°39'11", long 82°24'19" referenced to North American Datum of 1983, Buncombe County, NC, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,726.39 ft above National Geodetic Vertical Datum of 1929. Prior to May 5, 2005, at site 70 ft upstream at datum 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 240 ft³/s on basis of computation of peak flow over weir. Minimum discharge for period of record also occurred July 25, 1996. Minimum discharge for current water year also occurred August 12, 13, 15, 16, 20-25.

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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	0.75	1.8	2.6	9.7	14	9.7	11	8.8	5.9	1.6	0.85	8.1
2	0.75	1.7	2.5	e7.9	11	9.5	9.4	8.2	5.4	1.4	0.75	4.5
3	0.76	1.7	3.1	e7.0	9.7	9.6	9.3	7.9	5.1	1.4	1.0	3.2
4	0.90	1.7	2.6	e6.5	13	41	10	7.6	4.7	1.4	0.75	2.3
5	2.2	1.7	2.5	e6.2	15	54	13	6.9	4.4	1.4	0.64	1.9
6	1.3	2.1	2.4	5.9	15	33	21	6.4	4.0	1.4	0.96	1.7
7	1.1	1.9	2.3	5.3	14	30	18	6.1	3.8	1.3	0.73	1.6
8	1.0	1.9	2.3	5.2	12	28	17	6.3	3.6	1.3	0.65	1.4
9	0.99	1.8	2.5	4.8	11	24	15	8.2	3.3	1.7	0.56	1.9
10	0.95	1.9	2.6	5.2	9.1	21	14	8.9	3.5	e2.0	0.56	2.6
11	0.92	1.8	2.3	17	8.0	19	13	7.7	3.4	e1.8	0.55	10
12	1.0	1.7	2.3	13	7.4	17	13	11	3.0	e1.2	0.48	3.8
13	1.0	1.8	2.3	12	7.5	15	11	9.2	2.8	e1.5	0.49	3.1
14	1.0	1.9	2.3	9.3	6.3	14	10	8.5	2.7	e2.5	0.59	2.4
15	1.00	5.4	2.2	7.5	6.0	17	9.2	8.8	2.7	1.7	0.51	2.1
16	0.97	2.8	4.2	6.5	5.9	19	8.2	11	2.5	1.5	2.1	2.2
17	1.1	2.4	3.0	8.1	7.5	17	7.7	9.6	2.3	1.4	1.5	2.2
18	1.1	2.3	2.7	7.8	18	16	7.2	10	2.1	1.3	0.75	1.9
19	1.7	2.2	2.8	6.8	13	24	8.5	11	2.0	1.2	0.63	1.7
20	1.4	2.3	2.8	e5.6	12	35	9.7	11	1.9	1.1	0.56	1.5
21	1.1	2.1	4.0	e5.0	10	29	7.9	10	1.9	1.1	0.50	1.4
22	1.1	2.6	3.9	e4.4	9.6	25	7.3	8.9	2.2	1.1	0.48	1.2
23	1.8	2.3	10	e4.2	8.7	21	6.9	8.0	2.1	1.0	0.48	1.0
24	9.0	2.1	8.9	e4.0	7.7	18	6.7	7.3	1.8	0.99	0.48	0.98
25	4.9	2.1	6.8	e3.8	7.3	16	6.4	6.7	1.7	0.90	0.54	0.87
26	3.4	3.3	7.1	e3.6	12	15	6.2	6.3	1.6	1.0	27	1.7
27	2.7	3.8	6.5	e3.5	10	14	6.1	5.9	1.6	1.1	24	2.9
28	2.3	3.2	7.9	e3.4	9.1	12	13	9.3	1.6	0.88	14	1.6
29	2.1	3.0	9.8	3.6	8.9	14	11	8.7	1.7	0.95	7.2	1.3
30	1.9	2.8	12	3.8	---	12	9.5	7.0	1.8	0.86	3.7	1.2
31	1.8	---	13	3.4	---	11	---	6.4	---	0.81	2.5	---
Total	53.99	70.1	142.2	200.0	298.7	639.8	316.2	257.6	87.1	40.79	96.49	74.25
Mean	1.74	2.34	4.59	6.45	10.3	20.6	10.5	8.31	2.90	1.32	3.11	2.48
Max	9.0	5.4	13	17	18	54	21	11	5.9	2.5	27	10
Min	0.75	1.7	2.2	3.4	5.9	9.5	6.1	5.9	1.6	0.81	0.48	0.87
Cfsm	0.32	0.43	0.84	1.18	1.89	3.78	1.93	1.52	0.53	0.24	0.57	0.45
In.	0.37	0.48	0.97	1.36	2.04	4.36	2.15	1.76	0.59	0.28	0.66	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.06	8.40	10.4	13.4	15.1	18.5	16.6	11.7	8.43	6.28	6.59	6.03
Max	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
(WY)	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
Min	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
(WY)	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1926 - 2008 ^a	
Annual total	2,122.75		2,277.22			
Annual mean	5.82		6.22		10.6	
Highest annual mean					17.8	1949
Lowest annual mean					5.37	2002
Highest daily mean	65	Jan 1	54	Mar 5	528	Aug 13, 1940
Lowest daily mean	0.73	Sep 30	0.48	Aug 12	0.30	Sep 30, 1954
Annual seven-day minimum	0.80	Sep 27	0.52	Aug 19	0.40	Sep 24, 1954
Maximum peak flow			97	Mar 4	^b 1,370	Aug 13, 1940
Maximum peak stage			2.57	Mar 4	6.20	Aug 13, 1940
Instantaneous low flow			^b 0.48	Aug 11	^b 0.28	Jul 24, 1996
Annual runoff (cfs)	1.07		1.14		1.95	
Annual runoff (inches)	14.46		15.52		26.47	
10 percent exceeds	12		14		22	
50 percent exceeds	4.0		3.5		7.3	
90 percent exceeds	1.2		0.99		1.6	

^aPeriod of Record.^bSee Remarks.