

Water-Data Report 2007

03450000 BEETREE CREEK NEAR SWANNANOVA, 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 NGVD 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 good except those for estimated daily discharges, which are 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 September 30.

03450000 BEETREE CREEK NEAR SWANNANOVA, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.8	6.7	15	65	6.4	6.8	8.3	7.1	2.5	2.5	11	2.4
2	4.1	9.7	13	33	6.7	18	8.0	6.9	2.5	2.3	8.2	1.8
3	3.7	7.8	13	23	6.1	12	7.5	8.9	2.6	2.2	6.9	1.6
4	3.5	7.2	12	19	5.7	9.9	7.5	12	2.3	2.1	6.0	1.5
5	3.3	6.8	11	25	5.6	8.8	6.9	10	2.2	1.8	5.4	1.2
6	3.3	6.5	10	30	e5.5	8.3	6.7	10	2.1	1.7	4.8	1.1
7	2.9	9.6	9.7	27	e5.3	7.8	6.6	9.1	1.9	1.9	4.2	1.1
8	3.2	26	8.9	43	5.2	7.4	6.4	8.7	1.9	1.9	3.7	1.0
9	3.3	20	8.8	34	5.2	7.0	6.3	8.4	1.8	2.5	3.2	1.00
10	2.9	16	8.3	26	5.0	6.8	6.2	8.1	1.7	3.6	2.8	0.91
11	3.0	16	8.0	21	4.8	6.5	6.3	7.8	1.6	4.4	2.4	0.91
12	3.3	17	7.6	19	5.1	6.2	6.4	7.6	1.6	3.8	2.3	0.94
13	2.8	15	7.5	18	5.4	6.0	5.9	7.1	2.1	2.3	2.1	0.86
14	2.5	13	7.0	16	5.3	5.9	5.9	6.7	3.4	2.1	1.8	11
15	2.5	16	6.8	15	4.7	6.0	9.5	6.4	5.0	1.9	1.6	5.6
16	2.4	35	6.5	14	4.7	35	9.0	7.0	4.1	1.8	1.6	2.6
17	11	25	6.2	12	e4.6	25	9.0	6.4	2.6	1.6	1.5	2.0
18	10	20	6.1	12	e4.5	18	8.6	5.5	2.2	1.6	1.4	1.8
19	7.9	17	5.9	11	e4.4	15	13	5.3	2.1	1.6	1.3	1.6
20	8.7	15	5.7	9.9	e4.3	14	15	5.2	2.1	1.5	1.2	1.4
21	7.5	13	5.9	10	5.3	15	13	4.9	1.8	1.3	1.7	1.4
22	6.9	13	20	11	5.0	13	12	4.5	1.6	1.2	1.7	1.4
23	6.3	12	19	9.6	4.6	12	11	4.2	1.5	1.2	1.7	1.3
24	6.0	11	15	8.9	4.3	11	10	4.1	2.0	1.3	1.5	1.2
25	5.6	10	15	8.4	5.3	11	9.5	3.8	4.7	7.7	1.5	1.1
26	5.5	9.4	14	7.8	5.1	10	9.2	3.7	7.8	8.8	3.5	0.99
27	6.7	8.9	13	7.9	4.8	9.5	8.7	3.5	5.8	5.6	2.3	0.90
28	8.9	8.6	12	7.6	4.7	9.1	8.2	3.3	4.9	9.5	1.6	0.87
29	7.9	8.4	12	6.5	---	9.0	7.8	2.9	4.2	8.8	1.6	0.85
30	7.4	12	11	6.6	---	8.5	7.4	2.7	3.3	12	1.9	0.73
31	6.9	---	18	6.2	---	8.2	---	2.4	---	13	5.9	---
Total	164.7	411.6	331.9	563.4	143.6	346.7	255.8	194.2	85.9	115.5	98.3	53.06
Mean	5.31	13.7	10.7	18.2	5.13	11.2	8.53	6.26	2.86	3.73	3.17	1.77
Max	11	35	20	65	6.7	35	15	12	7.8	13	11	11
Min	2.4	6.5	5.7	6.2	4.3	5.9	5.9	2.4	1.5	1.2	1.2	0.73
Cfsm	0.97	2.51	1.96	3.33	0.94	2.05	1.56	1.15	0.52	0.68	0.58	0.32
In.	1.12	2.80	2.26	3.84	0.98	2.36	1.74	1.32	0.59	0.79	0.67	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.12	8.48	10.5	13.5	15.2	18.5	16.7	11.7	8.51	6.35	6.63	6.08
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)

03450000 BEETREE CREEK NEAR SWANNANOVA, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1926 - 2007 ^a	
Annual total	3,505.6		2,764.66			
Annual mean	9.60		7.57		10.7	
Highest annual mean					17.8	1949
Lowest annual mean					5.37	2002
Highest daily mean	65	Jan 18	65	Jan 1	528	Aug 13, 1940
Lowest daily mean	2.2	Aug 5	0.73	Sep 30	0.30	Sep 30, 1954
Annual seven-day minimum	2.4	Jul 30	0.95	Sep 24	0.40	Sep 24, 1954
Maximum peak flow			107	Jan 1	^b 1,370	Aug 13, 1940
Maximum peak stage			2.67	Jan 1	6.20	Aug 13, 1940
Instantaneous low flow			^b 0.73	Sep 29	^b 0.28	Jul 24, 1996
Annual runoff (cfsm)	1.76		1.39		1.96	
Annual runoff (inches)	23.88		18.84		26.62	
10 percent exceeds	16		15		22	
50 percent exceeds	8.4		6.2		7.4	
90 percent exceeds	2.9		1.6		1.7	

^a Period of Record.

^b See Remarks.

