

Water-Data Report 2010

**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 mi<sup>2</sup>, revised.

**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: 1928-29, daily discharges; 1936-37, maximum discharge. WSP 953: 1929, maximum discharge. WSP 1276: 1932, daily discharges

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 National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 240 ft<sup>3</sup>/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 24, 25.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.8	22	8.3	18	20	13	18	13	8.3	2.1	1.5	0.73
2	7.0	17	14	15	26	13	17	13	16	2.0	1.3	0.69
3	6.2	15	16	e14	25	12	16	18	17	1.9	1.2	0.66
4	5.3	13	14	e13	23	12	15	16	14	1.9	5.8	0.72
5	7.2	11	13	e12	37	11	14	14	12	1.7	5.1	0.65
6	5.8	10	12	e12	42	11	13	13	11	1.6	3.1	0.61
7	5.5	9.5	11	e11	34	11	12	12	11	1.6	1.6	0.58
8	4.4	8.8	11	e11	30	12	16	11	9.1	1.5	1.4	0.65
9	3.8	8.2	36	e10	27	12	15	9.8	8.4	1.5	1.2	0.72
10	4.0	16	26	e9.7	23	13	13	9.3	8.2	1.4	1.1	0.55
11	3.7	68	19	e9.1	21	16	13	9.6	7.5	1.3	1.7	0.82
12	3.9	45	17	e8.7	20	28	12	9.1	6.9	3.2	1.8	1.8
13	3.7	32	18	e8.4	18	43	11	8.5	6.9	1.8	1.2	0.73
14	6.4	23	17	e8.0	17	34	11	10	6.4	1.5	1.1	0.63
15	8.5	19	15	e7.6	16	30	10	12	5.9	1.4	1.1	0.56
16	8.8	16	13	e7.8	15	26	10	14	6.1	1.3	1.1	0.51
17	8.9	14	12	27	15	25	9.8	17	5.6	1.3	1.2	1.9
18	8.2	14	14	30	14	23	9.3	14	4.8	1.3	1.5	0.88
19	7.7	13	13	24	13	21	9.1	13	4.2	2.7	3.0	0.71
20	7.3	12	11	22	13	20	9.1	11	3.6	1.7	1.8	0.63
21	6.8	11	11	24	14	20	9.2	12	3.3	1.5	3.2	0.56
22	6.3	11	11	24	16	30	8.4	12	3.1	1.4	3.9	0.53
23	6.8	12	11	21	17	24	8.2	11	2.9	1.2	1.9	0.48
24	14	11	12	44	16	23	9.3	9.7	2.6	1.2	1.4	0.45
25	10	10	63	86	15	21	20	13	2.5	1.4	1.2	0.61
26	9.5	9.7	50	48	14	20	16	10	2.5	1.4	1.1	5.2
27	12	9.1	36	37	14	18	18	9.6	2.3	1.3	1.1	3.1
28	17	8.5	27	32	13	21	18	8.9	2.3	1.2	0.98	5.6
29	15	8.2	22	28	---	24	16	8.3	2.2	1.2	0.92	2.2
30	13	8.9	19	25	---	22	15	7.8	2.1	1.1	0.88	3.7
31	14	---	19	22	---	20	---	9.3	---	1.1	0.81	---
<b>Total</b>	248.5	485.9	591.3	669.3	568	629	391.4	358.9	198.7	48.7	56.19	38.16
<b>Mean</b>	8.02	16.2	19.1	21.6	20.3	20.3	13.0	11.6	6.62	1.57	1.81	1.27
<b>Max</b>	17	68	63	86	42	43	20	18	17	3.2	5.8	5.6
<b>Min</b>	3.7	8.2	8.3	7.6	13	11	8.2	7.8	2.1	1.1	0.81	0.45
<b>Cfsm</b>	1.47	2.97	3.49	3.95	3.72	3.72	2.39	2.12	1.21	0.29	0.33	0.23
<b>In.</b>	1.69	3.31	4.03	4.56	3.87	4.29	2.67	2.45	1.35	0.33	0.38	0.26

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2010 <sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	6.02	8.45	10.6	13.5	15.1	18.5	16.6	11.8	8.44	6.17	6.47	6.02
<b>Max</b>	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
<b>(WY)</b>	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
<b>Min</b>	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
<b>(WY)</b>	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1926 - 2010 <sup>a</sup>	
<b>Annual total</b>	4,268.8		4,284.05			
<b>Annual mean</b>	11.7		11.7		10.6	
<b>Highest annual mean</b>					17.8	1949
<b>Lowest annual mean</b>					5.37	2002
<b>Highest daily mean</b>	68	Nov 11	86	Jan 25	528	Aug 13, 1940
<b>Lowest daily mean</b>	1.3	Sep 14	0.45	Sep 24	0.30	Sep 30, 1954
<b>Annual seven-day minimum</b>	1.7	Sep 9	0.57	Sep 19	0.40	Sep 24, 1954
<b>Maximum peak flow</b>			190	Jan 25	<sup>b</sup> 1,370	Aug 13, 1940
<b>Maximum peak stage</b>			3.10	Jan 25	6.20	Aug 13, 1940
<b>Instantaneous low flow</b>			<sup>b</sup> 0.42	Sep 23	<sup>b</sup> 0.28	Jul 24, 1996
<b>Annual runoff (cfsm)</b>	2.14		2.15		1.95	
<b>Annual runoff (inches)</b>	29.08		29.19		26.47	
<b>10 percent exceeds</b>	22		24		22	
<b>50 percent exceeds</b>	9.8		10		7.4	
<b>90 percent exceeds</b>	2.3		1.2		1.6	

<sup>a</sup> Period of Record.

<sup>b</sup> See Remarks.

