

Water-Data Report 2011

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, 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 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 October 13.

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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	2.7	1.1	54	17	10	13	17	14	7.1	4.1	2.1	0.94
2	1.6	1.0	19	23	23	11	15	13	6.6	3.9	1.8	0.91
3	1.2	1.1	13	17	17	10	14	15	6.1	3.6	1.7	0.91
4	1.1	1.6	10	14	17	9.3	13	22	5.8	3.5	1.7	1.2
5	1.1	1.5	9.1	12	19	9.7	36	18	5.4	3.7	1.7	8.0
6	1.0	1.2	e6.4	10	17	51	30	17	5.1	3.6	2.9	14
7	0.94	1.1	e4.9	9.2	15	40	26	16	4.9	11	2.4	4.5
8	0.85	1.0	e4.4	e7.2	13	29	22	14	6.8	11	1.8	3.6
9	0.75	1.0	e4.0	e6.3	11	38	25	13	5.6	10	1.9	2.7
10	0.73	1.0	e3.7	e5.7	11	55	32	12	5.1	7.1	1.6	2.1
11	0.65	1.0	e3.6	e5.3	9.5	45	27	13	4.8	6.0	1.5	1.8
12	0.65	0.98	e3.6	e4.6	8.7	35	29	11	13	5.3	1.5	1.6
13	1.2	0.98	e2.9	e4.3	8.2	30	29	12	7.0	4.5	1.5	1.4
14	2.5	0.96	e2.9	e4.0	7.9	26	26	12	5.6	4.0	4.2	1.3
15	1.4	1.9	e2.8	e3.5	7.4	26	24	12	6.3	4.0	1.9	1.2
16	1.3	3.1	e3.0	e3.7	7.1	24	74	11	6.9	3.9	1.6	1.2
17	1.3	2.2	e4.1	e3.6	6.8	21	52	14	5.4	3.6	1.5	1.2
18	1.2	1.8	e3.8	e4.0	6.8	19	40	15	5.6	3.4	1.4	1.2
19	1.2	1.6	e3.6	8.1	6.6	17	33	13	15	3.1	1.4	1.2
20	1.2	1.5	e3.4	7.4	6.2	15	28	12	12	3.1	1.6	1.1
21	1.2	1.5	e3.4	6.7	6.2	14	25	11	8.6	3.1	1.4	1.5
22	1.1	1.5	e6.5	e3.9	6.0	13	23	11	7.5	3.7	2.2	1.8
23	1.0	1.6	e6.4	e3.7	5.6	13	20	12	8.9	3.2	1.4	3.7
24	0.99	1.5	e5.4	e3.7	6.0	14	18	10	7.8	3.7	1.2	2.1
25	1.4	1.5	e5.3	e3.7	8.8	12	17	9.2	6.7	4.1	1.2	1.5
26	1.2	1.8	e4.7	8.1	7.4	12	16	8.9	6.0	4.1	1.2	1.3
27	2.9	1.5	e4.6	7.2	7.1	15	14	11	5.6	2.9	1.2	1.5
28	3.1	1.3	e4.3	7.0	10	14	20	11	5.5	2.6	1.1	1.2
29	1.6	1.3	e3.9	6.8	---	14	16	9.2	5.2	2.3	1.0	1.2
30	1.3	33	e3.8	7.4	---	17	15	8.4	4.3	2.2	0.94	1.1
31	1.2	---	e4.0	8.4	---	17	---	7.7	---	2.1	0.94	---
Total	41.56	74.12	214.5	236.5	285.3	679.0	776	388.4	206.2	136.4	51.48	68.96
Mean	1.34	2.47	6.92	7.63	10.2	21.9	25.9	12.5	6.87	4.40	1.66	2.30
Max	3.1	33	54	23	23	55	74	22	15	11	4.2	14
Min	0.65	0.96	2.8	3.5	5.6	9.3	13	7.7	4.3	2.1	0.94	0.91
Cfsm	0.25	0.45	1.27	1.40	1.87	4.01	4.74	2.29	1.26	0.81	0.30	0.42
In.	0.28	0.50	1.46	1.61	1.94	4.63	5.29	2.65	1.40	0.93	0.35	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2011^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.96	8.37	10.5	13.4	15.0	18.5	16.7	11.8	8.42	6.15	6.41	5.97
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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	Calendar Year 2010	Water Year 2011	Water Years 1926 - 2011^a	
Annual total	3,288.53	3,158.42		
Annual mean	9.01	8.65	10.6	
Highest annual mean			17.8	1949
Lowest annual mean			5.37	2002
Highest daily mean	86	Jan 25	74	Apr 16
Lowest daily mean	0.45	Sep 24	0.65	Oct 11
Annual seven-day minimum	0.57	Sep 19	0.80	Oct 6
Maximum peak flow			193	Nov 30
Maximum peak stage			3.11	Nov 30
Instantaneous low flow			b0.57	Oct 12
Annual runoff (cfsm)	1.65	1.58		1.94
Annual runoff (inches)	22.41	21.52		26.41
10 percent exceeds	22	20		22
50 percent exceeds	5.1	5.3		7.3
90 percent exceeds	0.99	1.2		1.6

^a Period of Record.

b See Remarks.

