

03450000 BEETREE CREEK NEAR SWANNANOVA, NC

LOCATION.--Lat 35°39'11", long 82°24'19", Buncombe County, 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>.

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 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good except those for period Sept. 7-30, 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 current water year also occurred Oct. 8, 25, 26 and July 29. Minimum discharge for period of record also occurred July 25, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 8	0130	775	4.44	Sep 17	0400	874	4.40

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.1	8.8	8.6	5.3	7.3	12	12	10	5.9	10	35
2	4.2	5.7	8.0	8.1	5.6	7.9	11	14	8.1	18	15	58
3	3.8	5.3	7.7	7.9	7.9	8.0	12	12	7.1	23	14	39
4	3.6	4.9	8.4	7.5	6.8	7.8	13	11	10	17	8.0	29
5	3.3	7.2	8.8	8.4	6.6	7.7	13	11	7.7	13	6.3	22
6	3.1	25	7.9	7.6	34	13	12	9.8	6.5	14	6.0	20
7	3.0	21	7.4	6.8	35	12	12	9.1	6.1	10	4.8	255
8	3.1	16	7.2	6.6	25	11	11	8.3	5.9	8.5	4.3	481
9	3.7	13	6.9	6.4	21	10	10	8.7	5.4	7.2	3.9	238
10	4.7	11	15	6.2	18	9.5	9.5	7.9	5.5	6.3	3.7	118
11	4.1	9.6	18	6.0	16	8.9	9.3	7.2	5.0	8.1	4.5	77
12	3.9	8.7	15	5.9	15	8.3	10	6.7	7.0	6.7	8.7	63
13	3.7	7.8	14	5.7	14	7.7	29	8.4	12	5.5	6.2	45
14	4.0	6.9	14	5.5	13	7.4	27	8.8	9.1	4.9	5.2	27
15	4.2	6.5	12	5.5	13	8.1	23	7.3	18	4.6	4.9	20
16	3.8	6.1	11	5.1	12	10	20	8.3	16	4.3	4.3	37
17	3.6	5.9	13	5.1	11	9.0	17	10	13	4.8	4.2	504
18	3.5	5.5	12	8.6	11	12	15	8.5	10	5.3	4.8	218
19	3.3	92	11	6.9	9.9	13	14	7.8	8.6	4.1	3.7	104
20	3.3	42	10	6.2	9.6	12	12	7.1	7.4	3.7	3.5	70
21	3.2	28	10	6.0	9.8	14	11	6.4	6.7	3.5	3.5	46
22	3.1	22	9.9	5.8	9.0	12	10	6.4	6.6	3.4	3.4	34
23	3.0	18	11	6.3	8.7	11	9.6	11	6.6	3.3	6.4	26
24	2.9	16	17	5.4	8.5	11	9.0	9.1	6.3	3.7	6.1	23
25	2.9	13	14	5.6	8.0	10	8.5	7.5	8.8	3.5	5.1	21
26	8.5	12	12	5.9	7.6	9.3	20	7.0	10	3.3	4.5	20
27	17	11	12	6.3	7.7	8.8	17	6.9	7.8	4.2	4.8	22
28	11	11	11	5.7	7.6	8.3	14	6.1	7.1	3.3	9.3	48
29	9.2	10	9.9	5.7	7.4	7.8	13	5.7	6.2	3.0	11	30
30	7.8	9.4	10	5.4	---	8.6	12	5.6	5.8	5.2	9.7	23
31	6.9	---	9.2	5.6	---	11	---	15	---	4.8	18	---
TOTAL	150.3	456.6	342.1	198.3	364.0	302.4	415.9	270.6	250.3	216.1	207.8	2,753
MEAN	4.85	15.2	11.0	6.40	12.6	9.75	13.9	8.73	8.34	6.97	6.70	91.8
MAX	17	92	18	8.6	35	14	29	15	18	23	18	504
MIN	2.9	4.9	6.9	5.1	5.3	7.3	8.5	5.6	5.0	3.0	3.4	20
CFSM	0.89	2.79	2.02	1.17	2.30	1.79	2.54	1.60	1.53	1.28	1.23	16.8
IN.	1.02	3.11	2.33	1.35	2.48	2.06	2.83	1.84	1.71	1.47	1.42	18.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2004, @ BY WATER YEAR (WY)

MEAN	6.07	8.31	10.4	13.4	15.4	18.8	16.7	11.9	8.48	6.18	6.48	6.05
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	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004 <sup>@</sup>	
ANNUAL TOTAL	4,778.8		5,927.4		10.7	
ANNUAL MEAN	13.1		16.2		5.37	
HIGHEST ANNUAL MEAN					17.8	1949
LOWEST ANNUAL MEAN					5.37	2002
HIGHEST DAILY MEAN	112	May 6	504	Sep 17	528	Aug 13, 1940
LOWEST DAILY MEAN	1.2	Sep 21	2.9	Oct 24	0.30	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 15	3.1	Oct 19	0.40	Sep 24, 1954
MAXIMUM PEAK FLOW			874	Sep 17	1370*	Aug 13, 1940
MAXIMUM PEAK STAGE			4.44	Sep 8	6.20	Aug 13, 1940
INSTANTANEOUS LOW FLOW			2.8*	Oct 7	0.28*	Jul 24, 1996
ANNUAL RUNOFF (CFSM)	2.40		2.97		1.96	
ANNUAL RUNOFF (INCHES)	32.56		40.38		26.60	
10 PERCENT EXCEEDS	26		22		22	
50 PERCENT EXCEEDS	10		8.6		7.3	
90 PERCENT EXCEEDS	3.3		4.1		1.6	

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

