

TENNESSEE RIVER BASIN

03450000 BEETREE CREEK NEAR SWANNANOVA, NC

LOCATION.--Lat 35°39'11", long 82°24'20", 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 mi².

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.--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 current water year also occurred Sept. 12, 13. Minimum discharge for period of record also occurred July 25, 1996.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.0	2.7	e3.6	9.0	e3.8	25	10	3.2	1.7	e1.0	0.97
2	1.6	2.0	2.6	3.6	7.9	4.9	22	8.3	3.0	3.2	e1.0	0.94
3	1.5	1.9	2.4	3.6	7.3	5.2	18	8.0	2.9	2.4	1.1	0.86
4	1.4	1.8	2.3	3.6	6.7	4.2	16	12	6.0	2.3	e1.0	0.80
5	1.4	1.7	2.3	3.4	6.1	4.0	13	12	7.6	1.9	e1.0	0.67
6	1.5	1.5	2.2	3.4	6.8	4.0	12	11	9.0	1.6	e1.0	0.58
7	1.4	1.5	2.2	3.0	13	3.8	11	9.6	11	1.4	e0.92	0.53
8	1.3	1.5	2.1	3.0	12	3.6	9.9	8.7	7.0	1.1	e0.86	0.51
9	1.3	1.5	2.1	e2.9	12	3.7	11	8.0	5.8	1.1	e0.80	0.48
10	1.3	1.5	4.6	3.4	11	3.6	11	7.5	4.9	1.1	e0.78	0.41
11	1.3	1.5	8.4	4.3	10	3.4	9.8	6.9	4.2	1.2	e0.76	0.39
12	1.9	1.4	5.5	3.8	9.2	4.5	9.2	6.5	3.8	1.2	e0.76	0.37
13	1.9	1.4	6.4	3.5	8.4	5.6	10	8.1	5.1	3.1	e0.72	0.40
14	5.3	1.4	6.7	3.4	7.7	5.4	9.8	7.9	5.1	2.7	0.65	0.97
15	3.7	1.4	5.9	3.3	7.2	5.0	9.2	6.7	4.1	1.9	2.6	3.4
16	3.0	1.3	5.4	3.2	6.9	6.1	8.7	6.1	3.8	1.5	1.9	1.8
17	2.8	1.3	9.3	3.0	6.3	17	8.3	5.7	3.4	1.3	3.1	1.1
18	2.7	1.3	19	3.1	5.9	23	7.8	9.7	3.1	1.1	2.8	0.97
19	2.6	1.2	14	12	5.6	20	7.3	7.2	2.9	0.97	1.4	0.91
20	2.5	1.2	11	16	5.6	18	6.8	6.6	2.7	0.99	1.2	0.91
21	2.4	1.1	8.5	13	5.3	18	6.5	6.2	2.5	1.5	1.1	2.1
22	2.3	1.1	7.2	11	5.0	15	6.0	5.9	2.3	1.2	0.99	7.3
23	2.2	1.2	6.9	26	4.7	13	5.6	5.8	2.2	0.96	0.95	5.1
24	2.2	2.5	6.9	30	4.4	12	5.5	5.3	2.2	3.0	0.93	2.6
25	2.7	4.1	5.8	39	4.3	11	8.7	4.8	2.0	2.5	1.1	3.0
26	2.1	2.8	5.2	28	4.2	12	6.6	4.4	2.7	1.9	0.96	8.8
27	2.1	2.7	4.8	22	3.9	12	6.2	4.5	2.9	1.5	1.6	34
28	2.1	2.5	4.5	17	e3.8	11	6.0	4.2	2.5	1.3	1.1	20
29	2.1	2.3	4.3	13	---	10	5.6	3.8	2.1	1.2	1.1	11
30	2.1	2.8	3.9	12	---	18	5.2	3.6	1.8	e1.2	1.00	7.7
31	2.0	---	3.7	10	---	24	---	3.4	---	e1.1	1.0	---
TOTAL	66.4	53.4	178.8	310.1	200.2	304.8	297.7	218.4	121.8	51.12	37.18	119.57
MEAN	2.142	1.780	5.768	10.00	7.150	9.832	9.923	7.045	4.060	1.649	1.199	3.986
MAX	5.3	4.1	19	39	13	24	25	12	11	3.2	3.1	34
MIN	1.3	1.1	2.1	2.9	3.8	3.4	5.2	3.4	1.8	0.96	0.65	0.37
CFSM	0.39	0.33	1.06	1.83	1.31	1.80	1.82	1.29	0.74	0.30	0.22	0.73
IN.	0.45	0.36	1.22	2.11	1.36	2.08	2.03	1.49	0.83	0.35	0.25	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2002,® BY WATER YEAR (WY)

MEAN	6.101	8.151	10.30	13.57	15.48	18.94	16.68	11.74	8.354	6.099	6.486	4.865
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	21.3
(WY)	1930	1980	1933	1937	1990	1975	1936	1973	1949	1949	1940	1928
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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1926 - 2002®

ANNUAL TOTAL	2711.4	1959.47		
ANNUAL MEAN	7.428	5.368		10.57
HIGHEST ANNUAL MEAN				17.8
LOWEST ANNUAL MEAN				5.37
HIGHEST DAILY MEAN	45	Jan 19	39	Jan 25
LOWEST DAILY MEAN	1.1	Nov 21	0.37	Sep 12
ANNUAL SEVEN-DAY MINIMUM	1.2	Nov 17	0.44	Sep 7
MAXIMUM PEAK FLOW			46	Jan 25
MAXIMUM PEAK STAGE			3.31	Jan 25
INSTANTANEOUS LOW FLOW			0.36*	Sep 11
ANNUAL RUNOFF (CFSM)	1.36		0.98	
ANNUAL RUNOFF (INCHES)	18.47		13.35	26.31
10 PERCENT EXCEEDS	17		12	22
50 PERCENT EXCEEDS	5.0		3.5	7.2
90 PERCENT EXCEEDS	1.7		1.0	1.6

e Estimated.

® See PERIOD OF RECORD.

* See REMARKS.

03450000 BEETREE CREEK NEAR SWANNANOVA, NC--Continued

