

TENNESSEE RIVER BASIN

03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°47'00", Transylvania County, Hydrologic Unit 06010105, on right bank 1,200 ft downstream of Kuykendall Creek, 1.0 mi upstream from U.S. Highway 64, 2.1 mi upstream from mouth, and 3.2 mi southwest of Brevard.

DRAINAGE AREA.--11.7 mi².

PERIOD OF RECORD.--October 1944 to September 1955, November 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,230 ft above NGVD of 1929, from topographic map. Prior to Oct. 2, 1946, at site 0.9 mi downstream at different datum. October 2, 1946, to Jan. 9, 1947, at site 0.8 mi downstream of present gage at different datum. Jan. 10, 1947, to Oct. 3, 1951, at present site at different datum. Oct. 3, 1951, to Sept. 30, 1955, at site 40 ft downstream at different datum. 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 600 ft³/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.7 ft³/s from Catheys Creek for municipal water supply. Minimum discharge for period of record and current water year also occurred Sept. 11, 12, 2002.

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	15	14	19	19	27	20	33	37	18	17	9.7	8.5
2	15	14	18	18	25	41	31	28	18	16	9.0	7.9
3	14	14	17	18	25	33	30	26	17	16	8.8	7.2
4	14	13	16	19	24	27	28	62	16	15	8.2	7.2
5	14	13	16	18	23	25	27	42	34	15	7.9	6.6
6	16	13	16	28	28	24	27	35	23	14	7.6	6.0
7	14	13	15	23	37	24	26	32	20	14	7.8	6.0
8	14	13	15	20	30	23	26	30	18	13	7.6	5.9
9	14	12	15	20	28	23	42	29	18	13	7.2	5.3
10	14	12	27	20	28	22	37	28	16	14	7.5	5.0
11	14	12	30	19	26	21	33	27	16	15	7.6	4.7
12	19	12	22	19	25	28	31	27	15	14	7.1	4.8
13	19	12	24	18	24	44	32	27	15	20	6.6	5.4
14	54	12	26	18	23	32	34	25	15	20	6.6	19
15	24	12	23	17	24	29	32	24	15	17	7.2	31
16	19	11	22	17	23	28	31	23	15	15	9.7	17
17	18	12	30	18	23	38	30	23	14	14	11	13
18	17	11	34	14	22	34	29	27	14	14	8.3	11
19	17	11	27	35	22	32	28	23	13	13	13	10
20	16	11	24	31	25	32	28	22	13	15	11	12
21	16	11	23	30	23	38	27	22	12	14	8.1	33
22	15	11	21	26	22	33	26	21	12	12	8.0	26
23	15	17	26	55	21	31	25	21	15	12	7.7	20
24	15	31	27	45	21	29	24	20	13	12	7.1	14
25	15	32	24	52	20	28	29	20	13	12	10	18
26	14	21	22	40	20	33	25	19	36	13	9.3	54
27	14	19	21	35	19	30	24	22	36	13	23	122
28	14	17	20	31	20	28	24	20	21	11	11	e46
29	14	16	20	29	---	27	23	19	20	11	9.1	e27
30	14	24	19	28	---	35	22	19	18	10	8.4	e21
31	14	---	19	27	---	36	---	19	---	10	8.5	---
TOTAL	521	446	678	810	678	928	864	819	539	434	279.6	574.5
MEAN	16.81	14.87	21.87	26.13	24.21	29.94	28.80	26.42	17.97	14.00	9.019	19.15
MAX	54	32	34	55	37	44	42	62	36	20	23	122
MIN	14	11	15	17	19	20	22	19	12	10	6.6	4.7
CFSM	1.44	1.27	1.87	2.23	2.07	2.56	2.46	2.26	1.54	1.20	0.77	1.64
IN.	1.66	1.42	2.16	2.58	2.16	2.95	2.75	2.60	1.71	1.38	0.89	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002,® BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
23.71	29.47	33.86	43.12	46.09	52.99
70.0	77.9	63.3	86.3	90.1	110
1996	1949	1993	1998	1998	1952
7.30	8.69	13.4	14.5	24.2	20.7
1955	1955	1999	1955	2002	1988
47.90	37.69	32.36	27.90	27.63	23.97
71.4	57.3	78.2	94.9	91.2	67.8
1998	1949	1989	1949	1994	1950
27.2	17.2	11.6	10.9	9.02	8.21
1988	1988	1988	1988	2002	1954

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1945 - 2002®

ANNUAL TOTAL	8049	7571.1	
ANNUAL MEAN	22.05	20.74	35.43
HIGHEST ANNUAL MEAN			59.7
LOWEST ANNUAL MEAN			18.3
HIGHEST DAILY MEAN	75	Sep 24	814
LOWEST DAILY MEAN	10	Jul 17	4.7
ANNUAL SEVEN-DAY MINIMUM	11	Jul 12	5.3
MAXIMUM PEAK FLOW			2410*
MAXIMUM PEAK STAGE			2.93
INSTANTANEOUS LOW FLOW			1.0*
ANNUAL RUNOFF (CFSM)	1.88	1.77	3.03
ANNUAL RUNOFF (INCHES)	25.59	24.07	41.14
10 PERCENT EXCEEDS	33	33	62
50 PERCENT EXCEEDS	20	19	29
90 PERCENT EXCEEDS	13	9.5	13

e Estimated.

® See PERIOD OF RECORD.

* See REMARKS.

03440000 CATHEYS CREEK NEAR BREVARD, NC--Continued

