

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 sea level, 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 fair. 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 1.8 ft³/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 25, 1999. Minimum discharge for current water year also occurred Oct. 9 and Nov. 1, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	8.8	17	e17	23	29	47	23	30	13	28	15
2	8.6	8.6	16	e17	22	28	42	23	25	30	27	18
3	8.8	8.7	17	e16	21	29	42	22	22	20	27	22
4	8.6	8.8	15	e16	21	34	40	21	20	18	30	26
5	8.3	8.7	15	e16	20	30	38	25	19	16	34	17
6	8.2	8.5	15	e16	20	28	36	23	18	14	27	16
7	8.5	11	15	e16	19	27	35	22	19	13	30	14
8	7.5	9.7	14	e16	19	26	34	22	21	14	28	14
9	8.4	95	14	e16	19	25	33	21	18	15	23	14
10	8.7	40	14	e15	20	24	32	21	18	14	22	17
11	8.8	21	14	e15	19	24	31	20	17	13	20	14
12	8.5	18	13	e15	19	29	31	20	16	12	20	13
13	8.6	15	14	e15	21	32	32	19	16	12	36	13
14	8.6	15	27	e15	23	27	30	18	15	11	33	13
15	8.5	13	18	16	21	43	33	18	15	11	25	12
16	8.6	14	44	15	24	37	30	18	14	11	22	12
17	8.6	16	68	15	32	33	29	23	14	10	21	12
18	8.6	13	35	22	25	31	28	22	13	10	20	11
19	8.4	14	e31	66	23	29	28	26	13	13	18	14
20	8.5	13	e27	45	22	34	27	27	13	29	17	22
21	9.6	13	e25	32	21	39	27	23	13	15	16	14
22	9.9	12	e24	28	27	44	26	28	17	13	16	13
23	8.7	13	e23	26	24	47	26	24	15	11	16	13
24	8.6	13	e22	24	23	48	26	22	13	13	15	75
25	8.6	59	e21	23	64	46	26	37	14	34	15	29
26	9.2	33	e20	22	43	41	25	28	16	25	15	22
27	8.7	25	e19	21	35	37	24	23	13	22	16	20
28	9.5	21	e18	20	31	35	24	23	13	22	15	18
29	8.9	19	18	20	---	73	24	22	12	26	14	17
30	9.1	18	18	33	---	70	23	20	20	26	14	16
31	8.4	---	e17	25	---	53	---	19	---	37	14	---
TOTAL	269.9	585.8	668	674	701	1132	929	703	502	543	674	546
MEAN	8.71	19.5	21.5	21.7	25.0	36.5	31.0	22.7	16.7	17.5	21.7	18.2
MAX	9.9	95	68	66	64	73	47	37	30	37	36	75
MIN	7.5	8.5	13	15	19	24	23	18	12	10	14	11
CFSM	.74	1.67	1.84	1.86	2.14	3.12	2.65	1.94	1.43	1.50	1.86	1.56
IN.	.86	1.86	2.12	2.14	2.23	3.60	2.95	2.24	1.60	1.73	2.14	1.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001,® BY WATER YEAR (WY)

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	24.0	30.0	34.3	43.8	46.9	53.9	48.6	38.1	32.9	28.4	28.3	24.2															
MAX	70.0	77.9	63.3	86.3	90.1	110	71.4	57.3	78.2	94.9	91.2	67.8															
(WY)	1996	1949	1993	1998	1998	1952	1998	1949	1989	1949	1994	1950															
MIN	7.30	8.69	13.4	14.5	24.7	20.7	27.2	17.2	11.6	10.9	9.64	8.21															
(WY)	1955	1955	1999	1955	1989	1988	1988	1988	1988	1988	1988	1954															

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001®	
ANNUAL TOTAL	8322.6		7927.7			
ANNUAL MEAN	22.7		21.7		36.0	
HIGHEST ANNUAL MEAN					59.7	
LOWEST ANNUAL MEAN					18.3	
HIGHEST DAILY MEAN	154	Mar 20	95	Nov 9	814	Aug 17 1994
LOWEST DAILY MEAN	7.5	Oct 8	7.5	Oct 8	6.0	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	8.3	Oct 4	8.3	Oct 4	6.6	Oct 20 1954
MAXIMUM PEAK FLOW			255		2410*	
MAXIMUM PEAK STAGE			3.13		7.28	
INSTANTANEOUS LOW FLOW			4.5*		2.9*	
ANNUAL RUNOFF (CFSM)	1.94		1.86		3.08	
ANNUAL RUNOFF (INCHES)	26.46		25.21		41.82	
10 PERCENT EXCEEDS	40		34		63	
50 PERCENT EXCEEDS	18		20		29	
90 PERCENT EXCEEDS	9.3		9.7		13	

e Estimated.

® See PERIOD OF RECORD.

* See REMARKS.

03440000 CATHEYS CREEK NEAR BREVARD, NC--Continued

