

03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°46'59", 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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.8 ft<sup>3</sup>/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 11, 12, 2002.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	19	52	23	41	40	41	38	67	43	64
2	15	15	19	41	22	40	39	40	37	192	41	38
3	13	14	19	41	22	37	38	38	44	76	52	48
4	13	14	22	37	27	36	37	37	41	57	45	44
5	12	21	45	35	23	36	43	59	37	50	40	38
6	12	24	31	34	23	67	39	155	36	49	38	36
7	11	19	27	32	24	48	72	149	97	46	42	34
8	11	17	25	32	22	44	57	100	64	43	52	33
9	11	17	24	31	21	41	57	75	51	43	51	32
10	11	25	25	29	23	39	78	65	44	42	48	31
11	12	57	38	28	22	37	77	61	43	39	49	30
12	11	42	29	28	22	36	63	56	46	36	46	29
13	10	33	44	28	21	35	56	52	44	37	44	28
14	9.5	27	41	27	25	35	52	50	42	37	41	28
15	25	27	35	26	32	35	49	51	40	38	39	35
16	41	69	32	26	34	45	47	47	38	58	59	28
17	20	55	29	26	32	38	47	48	41	58	50	27
18	16	40	28	25	31	39	57	55	46	49	45	26
19	15	34	31	25	29	60	49	50	44	46	43	26
20	14	30	72	e25	27	129	47	47	40	42	41	25
21	13	32	42	e25	27	78	49	49	37	55	39	25
22	13	28	37	25	153	61	46	65	35	67	38	153
23	12	26	34	e24	84	55	43	60	34	60	37	91
24	12	24	98	e24	58	50	42	60	33	49	36	50
25	13	23	67	e24	49	47	42	53	32	44	34	42
26	14	22	51	e24	47	45	43	49	30	41	33	38
27	13	21	44	e24	47	43	40	46	30	40	34	36
28	18	21	40	e24	43	42	39	44	32	38	32	34
29	20	20	38	24	---	41	42	43	30	37	31	33
30	19	20	35	27	---	47	42	41	30	52	32	31
31	17	---	35	24	---	41	---	40	---	44	31	---
TOTAL	463.5	833	1,156	897	1,013	1,468	1,472	1,826	1,236	1,632	1,286	1,213
MEAN	15.0	27.8	37.3	28.9	36.2	47.4	49.1	58.9	41.2	52.6	41.5	40.4
MAX	41	69	98	52	153	129	78	155	97	192	59	153
MIN	9.5	14	19	24	21	35	37	37	30	36	31	25
CFSM	1.28	2.37	3.19	2.47	3.09	4.05	4.19	5.03	3.52	4.50	3.55	3.46
IN.	1.47	2.65	3.68	2.85	3.22	4.67	4.68	5.81	3.93	5.19	4.09	3.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003,® BY WATER YEAR (WY)

MEAN	23.4	29.4	34.0	42.6	45.7	52.8	47.9	38.4	32.7	28.8	28.1	24.6
MAX	70.0	77.9	63.3	86.3	90.1	110	71.4	58.9	78.2	94.9	91.2	67.8
(WY)	(1996)	(1949)	(1993)	(1998)	(1998)	(1952)	(1998)	(2003)	(1989)	(1949)	(1994)	(1950)
MIN	7.30	8.69	13.4	14.5	24.2	20.7	27.2	17.2	11.6	10.9	9.02	8.21
(WY)	(1955)	(1955)	(1999)	(1955)	(2002)	(1988)	(1988)	(1988)	(1988)	(1988)	(2002)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003 <sup>®</sup>	
ANNUAL TOTAL	8,378.6		14,495.5		35.6	
ANNUAL MEAN	23.0		39.7		18.3	
HIGHEST ANNUAL MEAN					59.7	1949
LOWEST ANNUAL MEAN					18.3	1988
HIGHEST DAILY MEAN	122	Sep 27	192	Jul 2	814	Aug 17, 1994
LOWEST DAILY MEAN	4.7	Sep 11	9.5	Oct 14	4.7	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 7	11	Oct 8	5.3	Sep 7, 2002
MAXIMUM PEAK FLOW			1,020	Sep 22	2,410*	Aug 17, 1994
MAXIMUM PEAK STAGE			4.85	Sep 22	7.28	Aug 17, 1994
INSTANTANEOUS LOW FLOW			6.6	Oct 14	1.0*	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.96		3.39		3.04	
ANNUAL RUNOFF (INCHES)	26.64		46.09		41.33	
10 PERCENT EXCEEDS	36		58		62	
50 PERCENT EXCEEDS	21		38		29	
90 PERCENT EXCEEDS	9.4		19		13	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.

