

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC

LOCATION.--Lat 35°19'18", long 80°32'27", North American Datum of 1983, Cabarrus County, Hydrologic Unit 03040105, on left bank at end of maintenance road located within Rocky River Wastewater Treatment Facility, 0.40 mi above confluence with Irish Buffalo Creek, and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi².

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 8.8 ft³/s for the current water year, of treated sewage effluent from the Mallard Creek Wastewater Treatment Plant was discharged into the river approximately 7 mi upstream of the gaging station. A daily average of 3.9 ft³/s for the current water year, of treated sewage effluent from the Mooresville Wastewater Treatment Plant was discharged into the river approximately 15 mi upstream of the gaging station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period of record and current water year also occurred Aug. 14, 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	32	31	35	36	e103	59	638	42	80	21	22	340
2	31	30	33	36	87	174	252	43	49	24	20	92
3	31	57	33	42	e80	1010	166	43	40	24	19	50
4	29	37	34	48	e78	448	140	61	33	173	19	38
5	29	31	33	54	76	223	116	101	30	44	19	31
6	30	30	33	169	74	159	105	59	30	26	18	27
7	45	30	33	269	261	133	96	47	204	21	18	25
8	31	29	34	111	588	118	92	43	101	20	18	23
9	30	30	35	76	252	108	88	41	45	19	16	20
10	29	30	47	65	163	103	94	40	35	19	16	21
11	27	30	383	57	172	96	90	52	32	25	e15	18
12	27	31	127	52	129	104	82	58	30	20	e14	17
13	27	31	70	54	110	507	89	50	28	19	13	16
14	28	31	58	54	98	512	83	223	26	192	13	18
15	41	31	52	49	90	231	79	92	24	266	14	108
16	35	32	46	48	86	168	76	56	24	65	49	211
17	28	31	44	46	83	310	70	48	23	43	311	100
18	29	30	134	45	77	439	75	52	23	32	90	72
19	28	30	101	220	74	241	66	64	23	28	43	58
20	33	30	63	978	75	185	59	44	23	25	30	37
21	29	30	52	261	74	323	57	39	21	24	26	32
22	29	30	46	234	73	287	55	39	20	41	25	30
23	30	29	43	1970	68	181	51	38	21	25	22	27
24	32	43	43	1010	64	150	49	38	21	21	20	24
25	51	61	44	552	62	133	51	38	20	111	21	24
26	63	45	40	313	62	126	51	37	27	87	24	43
27	36	38	39	191	60	154	46	35	28	77	25	129
28	31	39	39	155	60	135	45	34	29	39	28	90
29	31	37	38	140	---	114	46	32	43	30	30	53
30	32	35	37	121	---	114	43	32	24	25	25	36
31	33	---	36	115	---	157	---	212	---	21	282	---
TOTAL	1017	1029	1885	7571	3279	7202	3050	1833	1157	1607	1305	1810
MEAN	32.81	34.30	60.81	244.2	117.1	232.3	101.7	59.13	38.57	51.84	42.10	60.33
MAX	63	61	383	1970	588	1010	638	223	204	266	311	340
MIN	27	29	33	36	60	59	43	32	20	19	13	16
CFSM	0.12	0.12	0.22	0.88	0.42	0.84	0.37	0.21	0.14	0.19	0.15	0.22
IN.	0.14	0.14	0.25	1.01	0.44	0.96	0.41	0.25	0.15	0.22	0.17	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	34.55	49.53	59.06	161.2	115.1	287.2	148.5	67.31	61.83	63.78	59.34	119.7
MAX	36.3	64.8	60.7	244	117	342	229	82.5	101	80.9	86.9	211
(WY)	2001	2001	2002	2002	2002	2001	2000	2000	2001	2001	2000	2000
MIN	32.8	34.3	57.4	78.3	113	232	102	59.1	38.6	51.8	42.2	60.4
(WY)	2002	2002	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	35153	32745	
ANNUAL MEAN	96.31	89.71	99.06
HIGHEST ANNUAL MEAN			118
LOWEST ANNUAL MEAN			89.7
HIGHEST DAILY MEAN	2560	Mar 30	1970
LOWEST DAILY MEAN	22	Aug 28	13
ANNUAL SEVEN-DAY MINIMUM	23	Aug 27	14
MAXIMUM PEAK FLOW			3820
MAXIMUM PEAK STAGE			14.69
INSTANTANEOUS LOW FLOW			11*
ANNUAL RUNOFF (CFSM)	0.35	0.32	0.36
ANNUAL RUNOFF (INCHES)	4.70	4.38	4.84
10 PERCENT EXCEEDS	168	187	192
50 PERCENT EXCEEDS	52	43	51
90 PERCENT EXCEEDS	29	22	28

e Estimated.

* See REMARKS.

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC--Continued

