

Water-Data Report 2007

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

Upper Pee Dee Basin  
Rocky Subbasin

LOCATION.--Lat 35°19'18", long 80°32'27" referenced to North American Datum of 1983, Cabarrus County, NC, Hydrologic Unit 03040105, on left bank 0.40 mi above confluence with Irish Buffalo Creek and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 494.26 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. A daily average of 13.3 ft<sup>3</sup>/s of treated 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 4.5 ft<sup>3</sup>/s of treated 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 also occurred Aug. 14, 2002.

## 0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

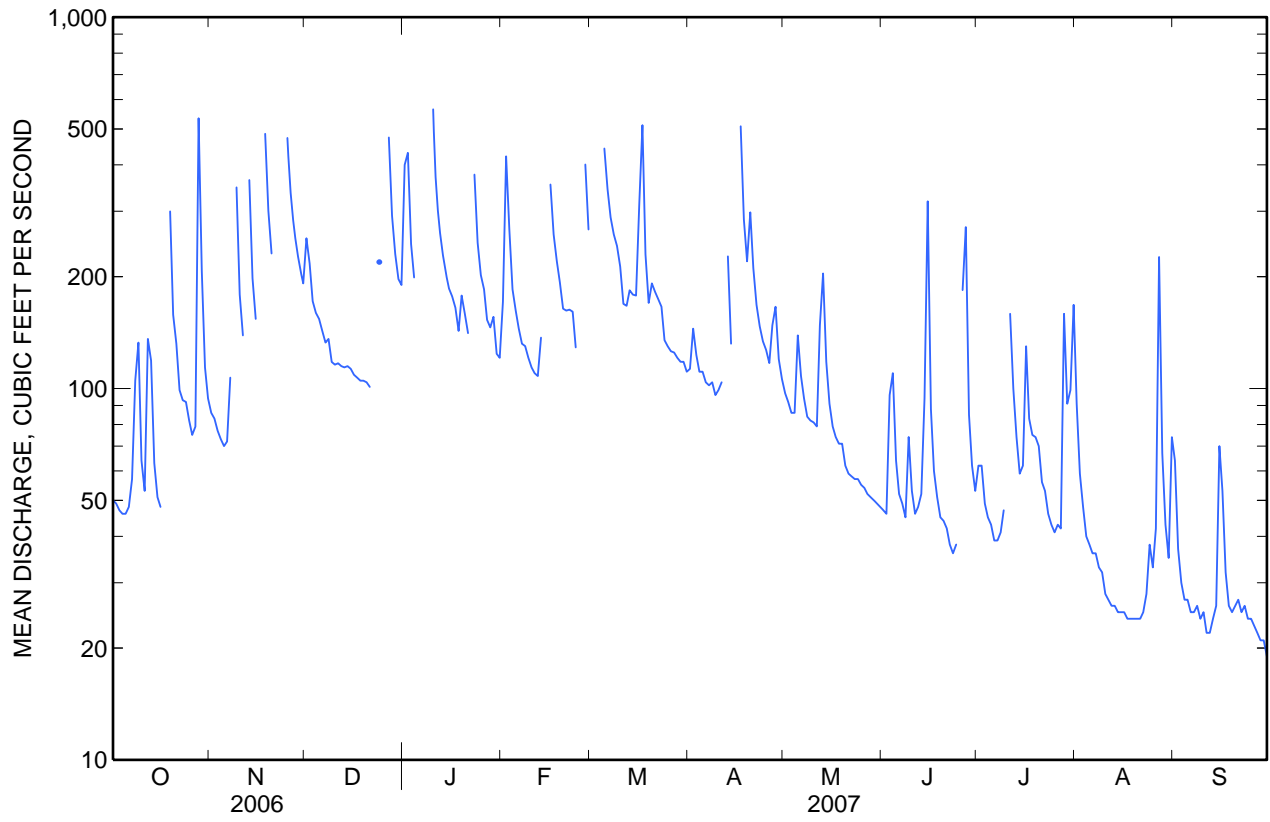
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	50	86	254	400	171	---	113	97	47	62	91	64
2	49	83	217	431	422	---	145	92	46	62	59	37
3	47	77	172	245	269	---	123	86	96	49	48	30
4	46	73	160	199	185	---	111	86	110	45	40	27
5	46	70	154	---	162	443	111	139	64	43	38	27
6	48	72	143	---	145	344	104	108	52	39	36	25
7	57	107	133	---	132	289	102	94	49	39	36	25
8	105	---	136	---	130	260	104	84	45	41	33	26
9	133	348	118	---	121	242	96	82	74	47	32	24
10	64	179	116	565	114	213	99	81	53	---	28	25
11	53	139	117	344	110	169	104	79	46	159	27	22
12	136	---	115	273	108	167	---	148	48	100	26	22
13	119	364	114	232	137	184	227	204	52	74	26	24
14	63	198	115	206	---	179	132	118	94	59	25	26
15	51	154	113	186	---	178	---	91	319	62	25	70
16	48	---	109	177	354	312	---	79	88	130	25	53
17	---	---	107	165	260	512	508	74	60	83	24	32
18	---	485	105	143	220	230	285	71	51	75	24	26
19	300	301	105	178	193	170	220	71	45	74	24	25
20	158	231	104	159	164	192	298	62	44	70	24	26
21	132	---	101	141	162	182	211	59	42	56	24	27
22	99	---	---	---	163	174	168	58	38	53	25	25
23	93	---	---	377	161	166	147	57	36	46	28	26
24	92	---	219	247	129	135	134	57	38	43	38	24
25	82	473	---	202	---	130	127	55	---	41	33	24
26	75	340	---	185	---	126	117	54	184	43	42	23
27	79	273	474	153	401	125	148	52	272	42	226	22
28	534	239	292	146	268	121	166	51	85	159	67	21
29	207	211	230	156	---	118	120	50	62	91	43	21
30	114	192	197	124	---	118	106	49	53	99	35	19
31	94	---	190	121	---	111	---	48	---	168	74	---

**SUMMARY STATISTICS**

	Calendar Year 2006		Water Year 2007		Water Years 2000 - 2007	
<b>Lowest daily mean</b>	32	Aug 1	19	Sep 30	13	Aug 13, 2002
<b>Annual seven-day minimum</b>	36	Jul 28	22	Sep 24	14	Aug 9, 2002
<b>Maximum peak stage</b>			21.27	Mar 2	23.21	Apr 11, 2003
<b>Instantaneous low flow</b>			<sup>a</sup> 17	Sep 30	<sup>a</sup> 11	Aug 13, 2002

<sup>a</sup> See Remarks.

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## 0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued

## CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 2004 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

**PRECIPITATION, TOTAL, INCHES**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.16	0.18	0.45	1.48	0.29	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.23	0.61	0.00	0.00	0.04	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.20	0.11	0.00	0.00	0.00
6	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.06	1.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.51	0.12	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
11	0.04	0.83	0.00	0.00	0.00	0.00	0.57	0.00	---	0.08	0.00	0.00
12	0.00	0.12	0.00	0.00	0.00	0.00	0.47	0.07	---	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	---	0.00	0.00	0.00
14	0.00	0.00	0.01	0.00	0.01	0.00	0.37	0.00	---	0.00	0.00	0.63
15	0.00	0.50	0.00	0.00	0.00	0.00	2.35	0.00	---	0.73	0.00	0.01
16	0.00	1.28	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00
17	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
18	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00
20	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00
21	0.00	2.17	0.03	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.03	0.01
22	0.03	1.86	0.92	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00
25	0.00	0.00	1.03	0.00	0.72	0.00	0.00	0.00	0.45	0.00	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00
27	0.74	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.02	0.01	0.00
28	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.00
29	0.00	0.00	0.00	0.00	---	0.02	0.00	0.00	0.00	0.05	0.30	0.00
30	0.00	0.04	0.00	0.00	---	0.01	0.00	0.00	0.02	0.03	0.01	0.00
31	0.00	---	0.22	0.00	---	0.00	---	0.00	---	0.00	0.00	---
<b>Total</b>	4.21	7.92	2.38	2.46	2.33	2.69	4.52	0.35	---	1.20	1.13	0.65

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