

Water-Data Report 2008

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 mi².

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, except those for estimated daily discharges, which are poor. 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 11.6 ft³/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 0.15 ft³/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 August 14, 2002. Minimum discharge for current water year also occurred October 7.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

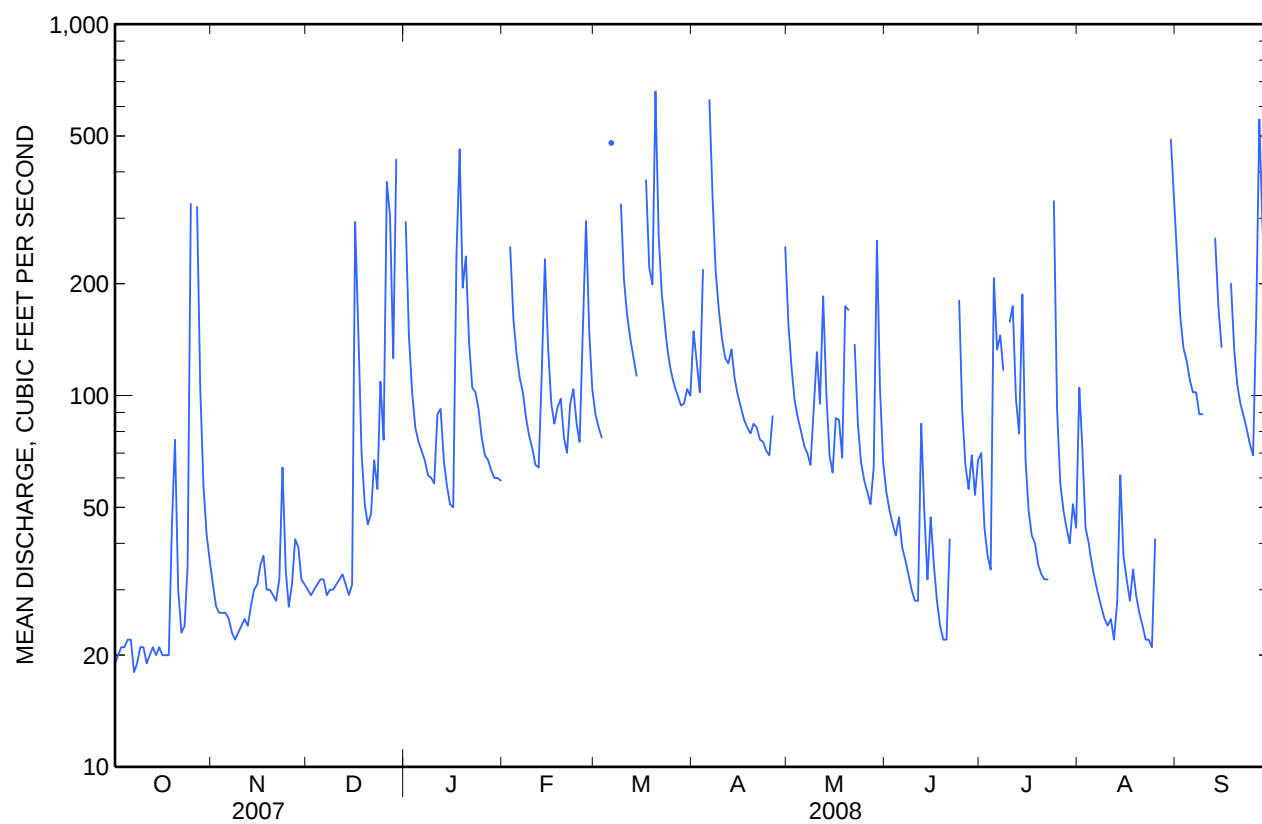
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19	31	30	293	---	89	149	155	55	70	105	232
2	20	27	29	145	---	82	124	118	49	44	72	163
3	21	26	30	102	251	77	102	97	45	37	44	134
4	21	26	31	82	161	---	218	87	42	34	40	124
5	22	26	e32	75	129	---	---	80	47	207	35	110
6	22	25	e32	71	112	479	625	73	39	133	32	102
7	18	23	29	67	102	---	341	70	36	145	29	102
8	19	22	30	61	87	---	217	65	33	117	27	89
9	21	23	30	60	78	327	170	92	30	---	25	89
10	21	24	31	58	72	205	142	131	28	158	24	---
11	19	25	32	89	65	164	126	95	28	174	25	---
12	20	24	33	92	64	142	122	185	84	98	22	---
13	21	27	31	67	114	127	133	101	49	79	28	265
14	20	30	29	57	233	113	111	69	32	187	61	174
15	21	31	31	51	134	---	100	62	47	67	37	135
16	20	35	293	50	95	---	93	87	35	49	32	---
17	20	37	148	236	84	380	86	86	28	42	28	---
18	20	30	70	460	93	221	82	68	24	40	34	200
19	45	30	51	195	98	199	79	174	22	35	29	133
20	76	29	45	237	77	659	84	170	22	33	26	107
21	30	28	48	139	70	269	82	---	41	32	e24	95
22	23	32	67	105	95	186	76	137	---	32	e22	88
23	24	64	56	102	104	152	75	84	---	---	22	81
24	35	34	109	92	84	129	71	66	e180	334	21	74
25	328	27	76	77	75	115	69	59	91	92	41	69
26	---	31	376	69	150	106	88	55	65	58	---	166
27	322	41	304	67	295	100	---	51	56	49	---	554
28	104	39	126	63	149	94	---	64	69	44	---	285
29	57	32	432	60	104	95	---	261	54	40	---	179
30	42	31	---	60	---	104	251	105	67	51	489	117
31	36	---	---	59	---	100	---	66	---	44	338	---

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2000 - 2008	
Lowest daily mean	18	Oct 7	18	Oct 7	13	Aug 13, 2002
Annual seven-day minimum	20	Oct 7	20	Oct 7	14	Aug 9, 2002
Maximum peak stage			29.91	Aug 27	29.91	Aug 27, 2008
Instantaneous low flow			^a 16	Oct 1	^a 11	Aug 13, 2002

^aSee 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 may be poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.00	0.00	0.00	1.25	0.00	0.20	0.00	0.00	0.00	0.11	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.01	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.01	1.08	0.32	0.00	0.00	0.05	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.02	0.00	0.04
6	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.31	0.00	0.07
7	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.01	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.01	0.00	0.47	0.00	0.54
9	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.13	0.00	0.00
10	0.03	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.11	0.09	0.82
11	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.43	0.48	0.00	0.00	0.06
12	0.00	0.02	0.00	0.00	0.38	0.00	0.12	0.01	0.00	0.00	0.00	0.01
13	0.00	0.00	0.00	0.00	0.55	0.00	0.02	0.00	0.00	0.99	0.75	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.02	0.00	0.00
15	0.00	0.15	0.99	0.00	0.00	1.44	0.00	0.03	0.00	0.00	0.83	0.00
16	0.00	0.00	0.34	0.00	0.00	0.01	0.00	0.25	0.00	0.00	0.01	2.42
17	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	0.00	0.23	0.04
18	0.00	0.00	0.00	0.21	0.06	0.00	0.00	0.14	0.00	0.00	0.00	0.00
19	0.40	0.00	0.00	0.21	0.00	0.49	0.03	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.01	0.00	0.00	0.02	1.27	0.00	0.00	0.00	0.00
21	0.00	0.00	0.24	0.00	0.21	0.00	0.00	0.00	0.11	0.00	0.00	0.00
22	0.00	0.11	0.00	0.11	0.15	0.00	0.00	0.00	4.26	0.61	0.00	0.00
23	0.34	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00
24	0.24	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
25	2.19	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00
26	0.83	0.06	1.18	0.00	0.55	0.00	0.34	0.00	0.03	0.00	3.38	1.28
27	0.01	0.00	0.00	0.00	0.00	0.00	0.36	0.11	0.04	0.00	4.35	0.31
28	0.00	0.00	0.46	0.00	0.00	0.00	1.08	0.62	0.02	0.02	0.00	0.00
29	0.00	0.00	0.04	0.00	0.00	0.05	0.00	0.01	0.00	0.03	0.04	0.00
30	0.00	0.00	1.00	0.07	---	0.01	0.00	0.00	0.01	0.50	0.00	0.01
31	0.00	---	0.01	0.04	---	0.29	---	0.00	---	0.04	0.16	---
Total	4.12	0.43	4.59	1.68	3.32	4.10	3.18	3.33	5.14	4.18	10.32	5.60

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