

Water-Data Report 2010

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. Datum of gage is 494.26 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

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 12.8 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 5.5 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 all years affected by regulation. Minimum discharge for current water year also occurred on September 26. Minimum discharge for period of record also occurred August 14, 2002.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

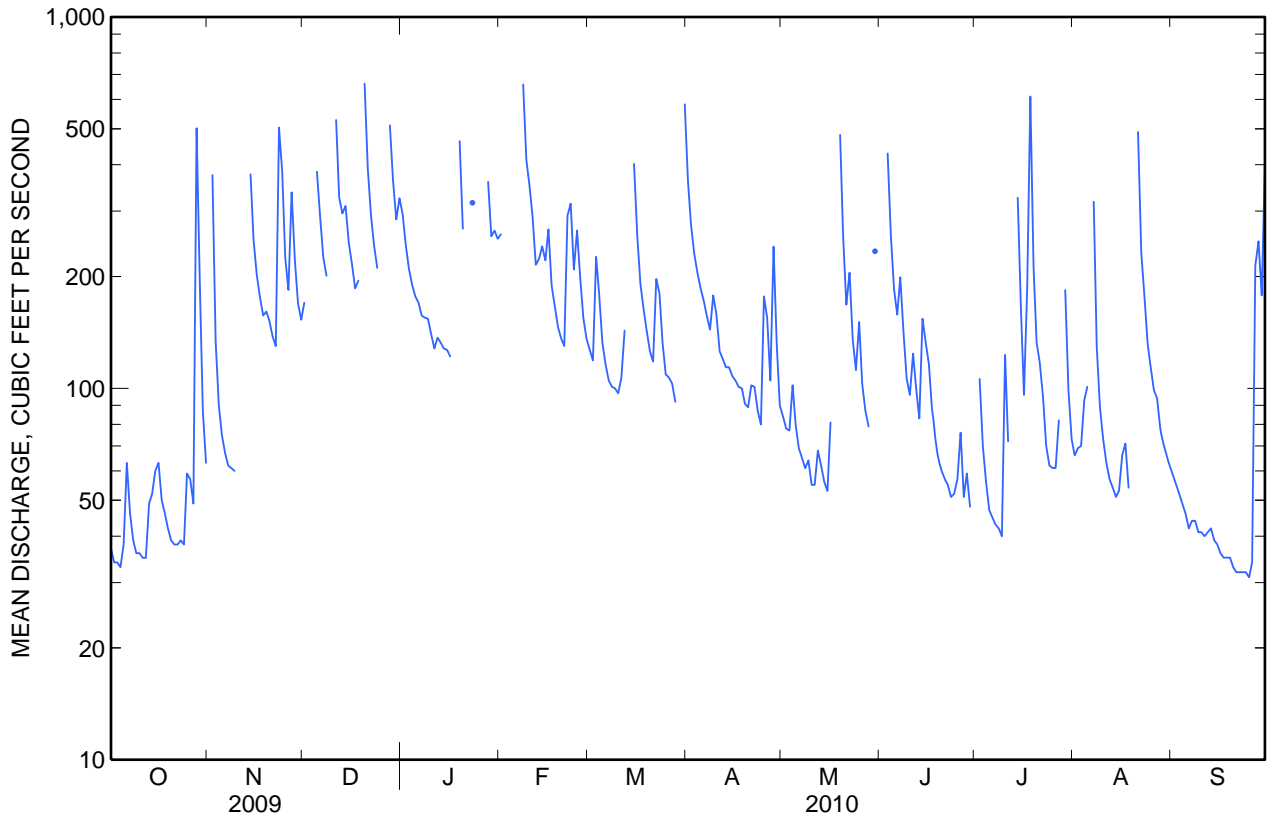
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	---	170	294	260	127	362	84	---	---	66	58
2	34	375	---	244	---	119	276	78	---	106	69	55
3	34	134	---	210	---	226	231	77	429	70	70	52
4	33	90	---	190	---	179	205	102	259	56	93	49
5	38	75	383	177	---	133	186	80	185	47	101	46
6	63	67	290	170	---	116	172	69	158	45	---	42
7	46	62	225	157	---	105	156	65	199	43	318	44
8	39	61	201	155	658	101	144	61	142	42	129	44
9	36	60	---	154	412	100	178	64	106	40	89	41
10	36	---	---	140	e350	97	158	55	96	123	73	41
11	35	---	528	128	289	107	126	55	124	72	63	40
12	35	---	327	137	215	143	120	68	100	---	57	41
13	49	---	296	133	223	---	114	62	83	---	54	42
14	52	377	310	128	241	---	114	56	154	326	51	39
15	60	251	247	127	221	402	108	53	133	164	53	38
16	63	202	216	122	268	258	105	81	116	96	66	36
17	50	176	186	---	189	191	101	---	88	185	71	35
18	46	157	195	---	166	163	100	---	74	611	54	35
19	42	161	---	463	146	143	91	481	65	212	---	35
20	39	152	661	269	136	126	89	255	60	133	---	33
21	38	138	390	---	130	118	102	168	57	117	490	32
22	38	130	292	---	292	197	101	205	55	95	233	32
23	39	503	243	316	314	180	87	135	51	70	177	32
24	38	383	211	---	209	133	80	112	52	62	132	32
25	59	225	---	---	266	109	177	151	57	61	114	31
26	57	184	---	---	200	107	155	103	76	61	99	34
27	49	337	---	---	155	103	105	87	51	82	94	214
28	502	222	511	360	136	92	241	79	59	---	78	249
29	193	169	361	257	---	---	131	---	48	184	71	178
30	87	153	285	266	---	---	90	234	---	99	66	400
31	63	---	325	253	---	582	---	---	---	73	62	---

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2000 - 2010	
Lowest daily mean	29	Sep 8	31	Sep 25	13	Aug 13, 2002
Annual seven-day minimum	33	Sep 3	32	Sep 20	14	Aug 9, 2002
Maximum peak flow			^a Not Determined		^a Not Determined	
Maximum peak stage			24.60	Jan 25	29.91	Aug 27, 2008
Instantaneous low flow			^a 27	Sep 21	^a 11	Aug 13, 2002

^a See Remarks.



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CLIMATOLOGICAL RECORDS

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

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

REMARKS.--Frozen precipitation collected in December, January and February is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	1.51	0.00	0.00	---	0.00	0.00	0.00	0.63	0.00	0.01	0.00
2	0.00	0.00	1.49	0.00	---	0.35	0.00	0.00	1.10	0.00	0.00	0.02
3	0.00	0.00	0.00	0.00	---	0.00	0.00	0.16	0.00	0.00	0.18	0.00
4	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.34	0.00	0.09	0.00	2.14	0.00	0.00	0.00	0.00	0.00	1.07	0.00
6	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.25	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
8	0.00	0.00	0.88	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.02
9	0.00	0.00	0.48	0.00	0.07	0.00	0.01	0.00	0.00	0.28	0.00	0.00
10	0.01	1.37	0.00	0.00	0.00	0.07	0.00	0.00	0.58	0.00	0.00	0.00
11	0.00	2.62	0.00	0.00	0.00	0.20	0.00	0.13	0.01	0.00	0.00	0.04
12	0.21	0.42	0.02	0.00	---	0.78	0.00	0.00	0.00	0.96	0.00	0.01
13	0.00	0.01	0.19	0.00	---	0.06	0.00	0.00	0.01	0.18	0.00	0.00
14	0.17	0.00	0.01	0.00	---	0.03	0.00	0.00	0.17	0.01	0.00	0.00
15	0.09	0.00	0.01	0.00	---	0.00	0.00	0.00	0.34	0.00	0.00	0.00
16	0.00	0.00	0.00	0.32	0.00	0.00	0.00	1.05	0.00	0.07	0.00	0.00
17	0.07	0.00	0.00	1.28	0.00	0.00	0.00	0.82	0.00	0.94	0.00	0.00
18	0.00	0.11	---	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00
19	0.00	0.03	---	0.00	0.00	0.00	0.00	0.39	0.00	0.00	5.16	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.00	0.00	0.47	0.01	0.00
21	0.00	0.00	0.00	0.68	0.00	0.35	0.03	0.11	0.00	0.00	0.00	0.00
22	0.00	0.28	0.00	0.03	0.43	0.15	0.00	0.02	0.00	0.00	0.42	0.00
23	0.00	0.59	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.01	0.01
24	0.21	0.00	0.01	1.52	0.18	0.00	0.15	0.14	0.01	0.00	0.62	0.00
25	0.00	0.01	1.90	0.77	0.03	0.01	0.37	0.08	0.03	0.00	0.02	0.00
26	0.00	0.33	0.01	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.89
27	1.38	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.58	0.00	0.78
28	0.09	0.00	0.00	0.00	0.00	0.90	0.00	0.94	0.00	0.14	0.00	0.01
29	0.00	0.00	0.00	---	---	0.52	0.00	0.03	0.01	0.00	0.00	1.23
30	0.00	0.11	0.13	---	---	0.00	0.00	0.00	1.07	0.00	0.00	0.29
31	0.11	---	0.12	---	---	0.00	---	1.17	---	0.03	0.00	---
Total	2.73	7.39	---	---	---	3.43	1.19	5.04	4.52	3.68	7.55	3.31

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