

Water-Data Report 2008

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°46'48", long 78°39'59" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on right bank, 0.1 mi below Pullen Drive at Pullen Park and 1.5 mi north of Raleigh.

DRAINAGE AREA.--1.17 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, June 1992 to September 1996, are unpublished and available from the files of the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 308.61 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record, no flow, also occurred May 6, July 3, 1999, due to diversion by City of Raleigh.

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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	e0.08	0.25	0.19	0.47	5.0	0.34	1.2	0.40	0.27	0.32	0.19	0.33
2	e0.01	0.21	0.19	0.34	0.41	0.32	0.58	0.36	0.26	0.26	0.16	0.24
3	e0.01	0.20	0.83	0.29	0.31	0.30	2.0	0.32	0.25	0.26	0.15	0.22
4	e0.06	0.20	0.28	0.28	0.30	6.0	3.8	0.30	0.25	0.92	0.15	0.20
5	0.50	0.19	0.23	0.31	0.29	2.4	13	0.28	0.25	1.5	0.16	3.9
6	0.30	0.20	0.20	0.25	0.29	0.43	1.4	0.28	0.22	11	0.16	95
7	0.26	0.19	0.19	0.24	0.27	16	0.61	0.29	0.24	1.2	0.16	0.52
8	0.24	0.19	0.19	0.26	0.28	2.3	0.49	0.44	0.21	0.35	0.16	0.39
9	0.24	0.20	0.20	0.25	0.27	0.54	0.59	2.1	0.20	5.5	0.12	0.44
10	0.23	0.19	0.20	0.24	0.29	0.46	0.49	0.56	0.20	1.1	1.4	3.2
11	0.20	0.18	0.22	0.24	0.43	0.43	0.42	8.5	0.19	0.49	0.48	0.35
12	0.17	0.20	0.21	0.23	0.58	0.39	0.55	0.91	0.20	0.31	0.23	0.28
13	0.14	0.18	0.22	0.22	9.5	0.36	0.38	0.37	0.18	0.26	0.87	0.23
14	0.14	0.18	0.22	0.22	0.62	0.35	0.45	0.44	0.28	9.7	0.30	0.21
15	0.14	3.0	6.4	0.24	0.40	9.2	0.39	0.90	4.6	0.62	2.6	0.21
16	0.14	0.24	6.5	0.23	0.34	0.86	0.38	4.0	0.23	0.29	0.47	11
17	0.14	0.20	0.32	3.3	0.33	0.41	0.34	0.44	2.3	0.24	0.25	0.64
18	5.0	0.19	0.26	0.38	4.6	0.40	0.36	5.9	0.19	3.9	0.23	0.34
19	3.0	0.19	0.25	2.4	0.39	0.76	0.33	0.65	0.19	0.50	0.23	0.34
20	0.27	0.20	0.23	0.66	0.37	0.52	2.1	4.1	0.16	0.28	3.8	0.27
21	0.17	0.19	0.23	0.34	0.34	0.34	0.56	0.57	22	0.25	0.46	0.27
22	0.18	0.18	0.21	0.40	1.5	0.32	4.5	0.35	1.1	0.23	0.20	0.21
23	0.20	0.18	1.6	0.53	0.44	0.31	0.54	0.33	1.7	0.55	0.17	0.20
24	29	0.18	0.29	0.29	0.43	0.31	0.37	0.30	0.58	0.25	0.23	0.20
25	5.3	0.25	0.23	0.27	0.44	0.32	0.38	0.28	0.29	0.21	0.18	1.1
26	22	1.6	10	0.27	5.7	0.33	0.35	0.27	0.28	0.20	0.54	7.3
27	50	0.31	0.46	0.27	0.86	0.32	44	0.27	0.34	0.21	21	3.6
28	0.53	0.21	0.32	0.26	0.39	0.34	13	1.2	0.27	0.28	11	0.79
29	0.36	0.22	0.48	0.26	0.35	0.46	1.2	0.34	6.1	0.19	0.38	0.32
30	0.30	0.22	37	0.77	---	2.1	0.55	0.28	4.3	0.20	24	0.30
31	0.27	---	1.3	0.26	---	11	---	0.28	---	0.19	1.6	---
Total	119.58	10.32	69.65	14.97	35.72	58.92	95.31	36.01	47.83	41.76	72.03	132.60
Mean	3.86	0.34	2.25	0.48	1.23	1.90	3.18	1.16	1.59	1.35	2.32	4.42
Max	50	3.0	37	3.3	9.5	16	44	8.5	22	11	24	95
Min	0.01	0.18	0.19	0.22	0.27	0.30	0.33	0.27	0.16	0.19	0.12	0.20
Cfsm	3.30	0.29	1.92	0.41	1.05	1.62	2.72	0.99	1.36	1.15	1.99	3.78
In.	3.80	0.33	2.21	0.48	1.14	1.87	3.03	1.14	1.52	1.33	2.29	4.22

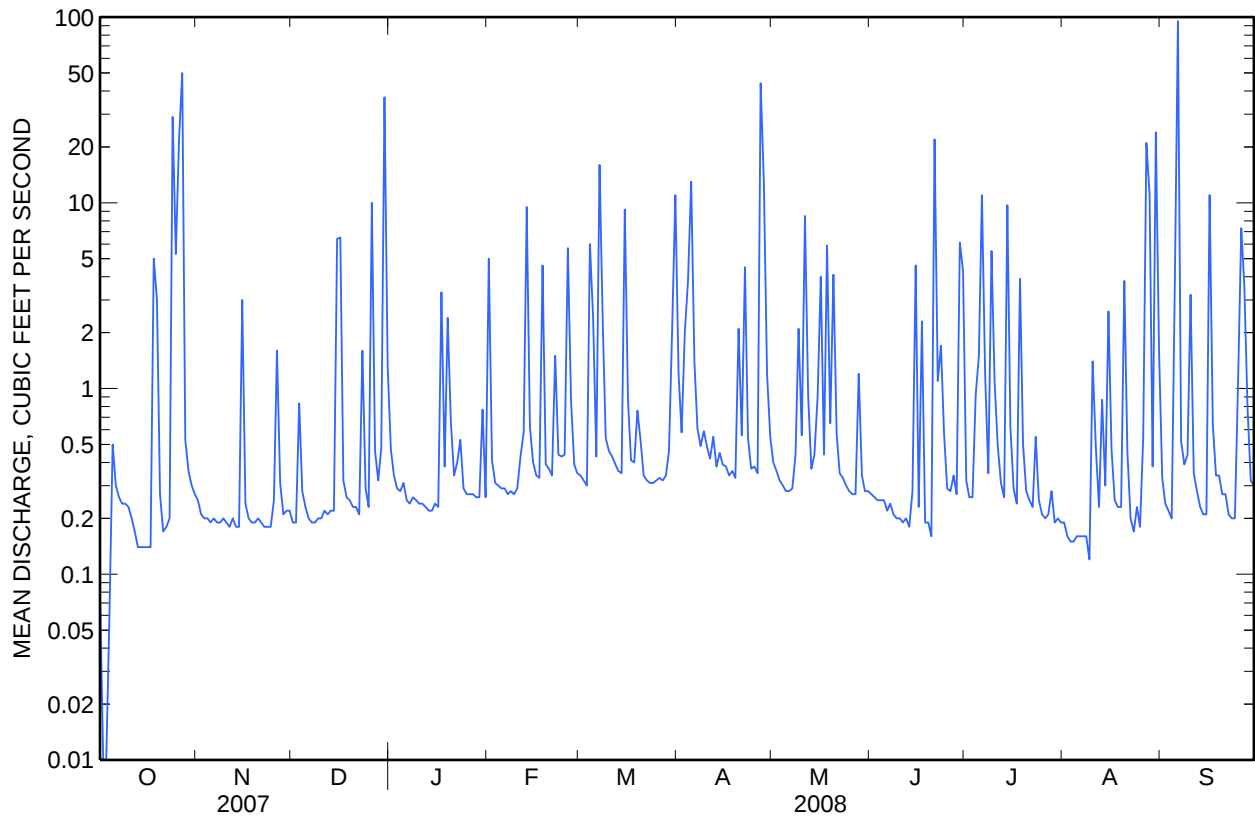
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.02	1.75	1.78	2.21	2.01	2.49	1.81	1.26	2.44	2.51	2.74	3.41
Max	4.95	5.48	3.29	6.08	5.45	6.58	3.18	2.09	7.99	5.89	8.11	17.8
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1998)	(2008)	(2007)	(2006)	(2003)	(2003)	(1999)
Min	0.64	0.34	0.45	0.48	1.00	0.50	0.66	0.49	0.71	1.16	0.71	0.61
(WY)	(2001)	(2008)	(2005)	(2008)	(2007)	(2006)	(2002)	(2000)	(1999)	(1999)	(1997)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1997 - 2008	
Annual total	619.39		734.70			
Annual mean	1.70		2.01		2.20	
Highest annual mean					3.66	2003
Lowest annual mean					1.33	2005
Highest daily mean	50	Oct 27	95	Sep 6	194	Jun 14, 2006
Lowest daily mean	0.01	Oct 2	0.01	Oct 2	0.00	Oct 6, 1998
Annual seven-day minimum	0.09	Sep 28	0.15	Aug 3	0.01	Apr 30, 2000
Maximum peak flow			893	Oct 27	2,590	Jul 24, 1997
Maximum peak stage			7.12	Oct 27	9.23	Jul 24, 1997
Instantaneous low flow			NOT DETERMINED		^a 0.00	Oct 6, 1998
Annual runoff (cfs)	1.45		1.72		1.88	
Annual runoff (inches)	19.69		23.36		25.59	
10 percent exceeds	2.6		4.2		4.0	
50 percent exceeds	0.41		0.32		0.56	
90 percent exceeds	0.19		0.19		0.23	

^aSee Remarks.

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC—Continued**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--December 2007 to September 2008.

INSTRUMENTATION.--Tipping-bucket raingage. 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 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	0.00	0.55	0.00	0.01	0.00	0.00	0.00	0.00	0.00
2	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	---	---	---	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00
4	---	---	---	0.00	0.00	0.68	0.32	0.00	0.00	0.14	0.00	0.00
5	---	---	---	0.00	0.00	0.02	0.77	0.00	0.00	0.13	0.00	0.55
6	---	---	---	0.00	0.00	0.00	0.07	0.00	0.00	0.97	0.00	4.15
7	---	---	---	0.00	0.00	1.16	0.01	0.00	0.00	0.01	0.00	0.00
8	---	---	---	0.00	0.00	0.11	0.00	0.07	0.00	0.00	0.00	0.00
9	---	---	---	0.00	0.00	0.00	0.00	0.19	0.00	0.56	0.00	0.03
10	---	---	---	0.00	0.00	0.00	0.00	0.08	0.00	0.03	0.22	0.57
11	---	---	---	0.00	0.00	0.00	0.00	0.86	0.00	0.01	0.00	0.00
12	---	---	---	0.00	0.04	0.00	0.07	0.00	0.00	0.00	0.00	0.00
13	---	---	---	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.18	0.00
14	---	---	---	0.00	0.01	0.00	0.00	0.00	0.03	0.70	0.00	0.00
15	---	---	---	0.00	0.00	0.71	0.02	0.71	0.47	0.00	0.30	0.05
16	---	---	---	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	1.05
17	---	---	---	0.48	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
18	---	---	---	0.00	0.41	0.00	0.00	0.37	0.00	0.52	0.00	0.00
19	---	---	---	0.34	0.00	0.12	0.00	0.01	0.00	0.00	0.00	0.00
20	---	---	---	0.01	0.00	0.00	0.28	0.35	0.00	0.00	0.20	0.00
21	---	---	0.00	0.00	0.01	0.00	0.03	0.00	0.70	0.00	0.00	0.00
22	---	---	0.00	0.06	0.20	0.00	0.57	0.00	0.02	0.00	0.00	0.01
23	---	---	0.21	0.02	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.11
24	---	---	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	---	---	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.29
26	---	---	0.85	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.14	0.62
27	---	---	0.00	0.00	0.00	0.00	2.28	0.00	0.03	0.00	1.39	0.38
28	---	---	0.01	0.00	0.00	0.00	0.69	0.28	0.00	0.05	0.48	0.00
29	---	---	0.05	0.00	0.00	0.05	0.00	0.00	0.51	0.19	0.00	0.00
30	---	---	1.91	0.13	---	0.32	0.00	0.00	0.25	0.00	1.56	0.00
31	---	---	0.00	0.00	---	0.88	---	0.00	---	0.00	0.01	---
Total	---	---	---	1.04	2.62	4.05	5.38	3.31	2.48	3.43	4.48	7.81

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