

Water-Data Report 2007

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 Fragmentary records, June 1992 to September 1996, are unpublished and available from the files of the USGS Water Science Center, Raleigh, NC.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. Elevation of gage is 315 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Minimum discharge for period of record, no flow, also occurred May 6, July 3, 1999, due to diversion by City of Raleigh. Minimum discharge for current water year also occurred December 22, due to upstream diversion.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.30	0.29	4.5	2.5	4.2	1.1	0.47	0.62	0.30	0.25	0.34	0.20
2	0.28	0.31	0.61	0.54	0.96	7.8	0.58	0.63	0.32	0.24	0.30	0.19
3	0.28	0.28	1.3	0.43	0.53	0.58	0.77	0.60	17	0.24	0.25	0.20
4	0.28	0.27	1.1	0.43	0.49	0.49	1.00	0.51	0.75	0.23	0.18	0.20
5	0.32	0.26	0.51	2.5	0.47	0.47	0.50	0.36	0.41	0.25	0.17	0.19
6	6.6	0.35	0.47	14	0.42	0.45	0.50	0.32	1.7	0.25	0.58	0.21
7	0.85	43	0.45	2.8	0.44	0.45	1.0	0.32	0.39	0.24	0.27	0.36
8	5.6	2.9	0.45	5.6	0.44	0.44	0.52	0.38	0.36	0.21	0.28	0.67
9	0.51	0.59	0.45	0.81	0.45	0.42	0.61	0.93	4.5	0.24	0.26	0.86
10	0.45	0.44	0.46	0.60	0.42	0.42	0.75	0.42	0.79	0.94	0.82	0.89
11	0.34	0.37	0.44	0.52	0.41	0.64	1.4	0.35	0.35	4.2	0.26	0.78
12	3.7	17	0.44	0.52	0.41	0.40	4.0	49	0.35	0.61	0.23	0.72
13	0.33	0.65	0.44	0.51	3.0	0.40	0.47	2.3	3.7	0.26	0.21	0.87
14	0.29	0.47	0.43	0.49	2.1	0.40	0.42	0.96	0.49	0.28	0.23	20
15	0.27	0.41	0.43	0.48	0.47	0.41	18	0.69	0.36	0.22	0.22	3.9
16	0.26	31	0.40	e0.45	0.45	32	1.6	0.59	0.40	0.19	0.35	0.26
17	7.6	0.85	0.40	0.43	0.44	1.4	0.62	0.68	0.37	24	0.35	0.16
18	2.5	0.49	0.39	2.1	0.43	0.62	0.48	0.60	0.39	29	0.19	0.14
19	0.42	0.44	0.41	0.71	0.42	0.55	0.66	0.42	0.90	0.73	0.20	0.21
20	1.6	0.42	0.40	0.45	0.42	0.51	0.43	0.41	1.2	0.37	0.22	1.5
21	0.30	14	0.22	7.0	0.44	0.46	0.45	0.40	0.37	0.27	1.6	0.31
22	0.46	44	17	6.0	0.44	0.47	0.60	0.39	0.32	0.25	0.35	0.21
23	0.30	1.3	1.7	0.69	0.42	0.46	0.65	0.36	0.33	0.23	13	0.19
24	0.26	0.69	0.59	0.53	0.43	0.38	0.63	0.33	0.30	0.28	0.37	0.19
25	0.34	0.54	34	0.49	7.3	0.33	0.67	0.39	0.30	0.33	0.29	0.19
26	0.26	0.50	1.6	0.48	0.74	0.33	0.93	0.32	0.30	0.91	3.2	0.21
27	3.9	0.55	0.68	0.46	0.49	0.34	4.0	0.31	0.29	2.0	0.59	0.18
28	5.3	0.51	0.49	0.47	0.47	0.37	0.64	0.31	0.32	1.8	0.30	0.19
29	0.40	0.47	0.45	0.44	---	1.1	0.59	0.31	0.39	0.43	0.25	0.15
30	0.36	1.1	0.43	0.49	---	0.45	0.60	0.29	0.31	3.7	0.30	0.16
31	0.34	---	0.41	0.49	---	0.48	---	0.26	---	0.63	0.22	---
Total	45.00	164.45	72.05	54.41	28.10	55.12	44.54	64.76	38.26	73.78	26.38	34.49
Mean	1.45	5.48	2.32	1.76	1.00	1.78	1.48	2.09	1.28	2.38	0.85	1.15
Max	7.6	44	34	14	7.3	32	18	49	17	29	13	20
Min	0.26	0.26	0.22	0.43	0.41	0.33	0.42	0.26	0.29	0.19	0.17	0.14
Cfsm	1.24	4.69	1.99	1.50	0.86	1.52	1.27	1.79	1.09	2.03	0.73	0.98
In.	1.43	5.23	2.29	1.73	0.89	1.75	1.42	2.06	1.22	2.35	0.84	1.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.86	1.88	1.74	2.37	2.08	2.54	1.69	1.27	2.52	2.61	2.78	3.32
Max	4.95	5.48	3.29	6.08	5.45	6.58	2.85	2.09	7.99	5.89	8.11	17.8
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1998)	(2003)	(2007)	(2006)	(2003)	(2003)	(1999)
Min	0.64	0.49	0.45	0.77	1.00	0.50	0.66	0.49	0.71	1.16	0.71	0.61
(WY)	(2001)	(2002)	(2005)	(2001)	(2007)	(2006)	(2002)	(2000)	(1999)	(1999)	(1997)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1997 - 2007	
Annual total	814.39		701.34			
Annual mean	2.23		1.92		2.22	
Highest annual mean					3.66	2003
Lowest annual mean					1.33	2005
Highest daily mean	194	Jun 14	49	May 12	194	Jun 14, 2006
Lowest daily mean	0.00	Aug 12	0.14	Sep 18	0.00	Oct 6, 1998
Annual seven-day minimum	0.05	Aug 11	0.18	Sep 24	0.01	Apr 30, 2000
Maximum peak flow			1,530	May 12	2,590	Jul 24, 1997
Maximum peak stage			8.05	May 12	9.23	Jul 24, 1997
Instantaneous low flow			^a 0.04	Dec 21	^a 0.00	Oct 6, 1998
Annual runoff (cfsm)	1.91		1.64		1.90	
Annual runoff (inches)	25.89		22.30		25.80	
10 percent exceeds	3.7		3.4		4.0	
50 percent exceeds	0.44		0.45		0.59	
90 percent exceeds	0.28		0.24		0.24	

^a See Remarks.

