

NEUSE RIVER BASIN

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°46'48", long 78°39'59", Wake County, 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.

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, June 1992 to September 1996, are unpublished and available in the files of the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow also occurred May 6, July 3, 1999, due to diversion by City of Raleigh.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.33	0.19	0.33	0.40	0.89	0.76	3.9	0.54	1.8	0.20	0.19	4.4
2	0.43	0.19	0.32	0.37	0.96	8.2	0.51	0.76	0.38	0.20	0.20	1.3
3	0.23	0.19	0.40	1.0	0.96	1.6	0.46	0.28	0.35	0.21	0.15	0.73
4	0.22	0.19	0.45	2.1	0.99	0.77	0.44	3.5	0.42	0.23	0.14	0.43
5	0.44	0.19	0.45	2.0	1.2	0.72	0.50	0.44	0.50	2.3	e0.15	0.23
6	8.0	0.20	0.45	16	3.4	0.73	0.49	0.38	11	e0.15	e0.18	0.24
7	1.5	0.20	0.45	3.7	13	0.72	0.49	0.49	1.0	e0.11	0.10	0.22
8	1.1	0.20	0.41	1.4	1.7	0.74	0.49	0.49	0.25	e0.11	0.11	0.22
9	0.84	0.20	0.42	1.2	0.96	0.74	0.53	0.44	0.24	e0.11	0.14	0.23
10	0.75	0.20	4.7	1.3	1.3	0.74	4.2	0.35	0.25	e9.0	0.14	0.23
11	0.63	0.20	20	1.1	0.89	0.68	0.15	e0.04	0.29	e4.0	0.16	0.22
12	0.53	0.20	0.63	1.9	0.86	0.55	0.19	e0.12	0.40	e0.60	0.17	0.22
13	0.52	0.20	0.49	2.4	0.79	1.0	0.32	2.3	0.45	0.28	0.17	0.22
14	21	0.21	0.49	0.75	0.84	0.37	0.32	0.58	0.42	1.1	0.38	2.0
15	0.77	0.21	0.33	0.86	0.84	0.34	0.32	0.49	0.30	0.12	11	2.9
16	0.22	0.20	0.32	0.60	0.69	0.40	0.32	0.51	0.42	0.11	6.4	6.3
17	e0.09	e0.09	1.9	0.42	0.52	3.2	0.34	0.49	0.24	0.11	4.0	0.30
18	e0.02	e0.07	1.5	0.80	0.60	0.30	0.32	2.1	0.24	2.8	e14	0.24
19	0.03	0.19	0.47	32	0.62	0.24	0.65	0.30	0.25	1.2	e7.0	0.24
20	0.05	0.20	0.47	3.7	0.64	1.00	0.32	0.30	0.24	1.7	0.71	0.21
21	0.07	0.21	0.59	4.6	0.74	3.6	0.32	0.23	e0.11	0.44	0.30	0.20
22	0.06	0.26	0.34	1.1	0.64	0.52	0.33	0.25	0.19	2.0	0.28	0.20
23	0.07	0.33	0.42	27	0.65	0.46	0.34	0.25	0.22	1.6	0.27	0.20
24	0.07	5.5	1.4	2.5	0.71	0.32	0.34	0.22	e0.14	2.0	0.27	0.20
25	0.13	3.2	0.49	4.7	0.74	0.32	0.51	0.23	e0.02	2.0	0.67	0.20
26	0.19	0.23	0.49	1.2	0.76	6.5	0.60	0.28	e0.83	8.2	0.76	0.63
27	0.20	0.26	0.49	0.82	0.74	1.7	0.44	0.29	3.4	0.73	6.1	1.2
28	0.20	0.29	0.49	0.76	0.78	0.30	0.54	e0.21	12	0.50	2.4	0.25
29	0.19	0.33	0.43	0.74	---	0.24	0.54	e0.02	0.90	0.49	0.45	0.22
30	0.19	0.37	0.33	0.75	---	0.32	0.49	e0.11	0.21	0.28	18	0.22
31	0.19	---	0.37	0.80	---	24	---	0.03	---	0.17	24	---
TOTAL	39.26	14.70	40.82	118.97	38.41	62.08	19.71	17.02	37.46	43.05	98.99	24.60
MEAN	1.266	0.490	1.317	3.838	1.372	2.003	0.657	0.549	1.249	1.389	3.193	0.820
MAX	21	5.5	20	32	13	24	4.2	3.5	12	9.0	24	6.3
MIN	0.02	0.07	0.32	0.37	0.52	0.24	0.15	0.02	0.02	0.11	0.10	0.20
CFSM	1.08	0.42	1.13	3.28	1.17	1.71	0.56	0.47	1.07	1.19	2.73	0.70
IN.	1.25	0.47	1.30	3.78	1.22	1.97	0.63	0.54	1.19	1.37	3.15	0.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002
MEAN	1.695	1.317	1.447	3.276	2.232	3.065
MAX	2.69	2.00	1.85	6.08	5.45	6.58
(WY)	2000	1998	1998	1998	1998	1997
MIN	0.64	0.49	0.98	0.77	1.17	1.52
(WY)	2001	2002	2001	2001	1999	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

ANNUAL TOTAL	706.72	555.07				
ANNUAL MEAN	1.936	1.521				
HIGHEST ANNUAL MEAN			3.19		1999	
LOWEST ANNUAL MEAN			1.52		2002	
HIGHEST DAILY MEAN	93	Jun 16	32	Jan 19	119	Jul 24 1997
LOWEST DAILY MEAN	0.02	Jun 30	0.02	Oct 18	0.00	Oct 6 1998
ANNUAL SEVEN-DAY MINIMUM	0.05	Oct 18	0.05	Oct 18	0.01	Apr 30 2000
MAXIMUM PEAK FLOW			655	Jun 28	2590	Jul 24 1997
MAXIMUM PEAK STAGE			6.67	Jun 28	9.23	Jul 24 1997
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00*	Oct 6 1998
ANNUAL RUNOFF (CFSM)	1.65		1.30		1.95	
ANNUAL RUNOFF (INCHES)	22.47		17.65		26.47	
10 PERCENT EXCEEDS	3.2		3.4		3.7	
50 PERCENT EXCEEDS	0.50		0.44		0.61	
90 PERCENT EXCEEDS	0.19		0.17		0.24	

e Estimated.

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