

NEUSE RIVER BASIN

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

LOCATION.--Lat 36°08'58", long 78°53'49", Durham County, Hydrologic Unit 03020201, on right bank at bridge on Secondary Road 1617 and 1.6 mi southwest of Bahama.

DRAINAGE AREA.--8.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 370 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from floodmarks. Maximum gage height for period of record occurred Sept. 6, 1996, discharge not determined. Minimum discharge for current water year also occurred on September 17-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.42	.68	.42	1.0	1.4	78	2.7	14	.22	2.7	.29
2	.92	.43	.65	.44	.89	1.2	44	3.0	11	.28	1.9	.29
3	.72	.39	.68	.38	.78	1.3	16	1.5	3.4	.47	1.1	.23
4	.68	.43	.54	.37	.98	8.8	11	1.1	1.8	.95	.79	.19
5	.70	.41	.44	.52	1.0	11	8.7	1.1	1.3	2.3	.55	.17
6	.52	.40	.46	.44	1.1	6.1	7.2	.82	1.1	.64	.80	.14
7	.43	.42	.50	.41	.85	3.6	5.9	.82	.99	.39	.65	.12
8	.37	.47	.52	.52	.81	2.7	5.4	.71	.83	.33	.40	.10
9	.36	.53	.47	.60	.85	2.2	4.8	.76	.76	.82	.38	.12
10	.38	.63	.46	.48	.96	1.2	4.5	.78	.68	3.9	.34	.21
11	.40	.46	.45	.47	.84	1.3	4.1	.75	.64	.68	1.8	.19
12	.41	.40	.51	.51	.92	.98	3.8	1.5	.57	.53	e4.0	.13
13	.36	.36	.47	.56	2.0	1.4	4.0	.97	2.0	.36	.86	.09
14	.35	.81	.49	.39	2.5	1.5	3.5	.61	3.3	.30	.67	.09
15	.35	.88	.51	.40	2.5	2.0	3.2	.58	1.8	.22	.42	.08
16	.37	.55	.80	.50	3.5	3.3	2.7	2.7	1.0	.19	.27	.07
17	.37	.47	9.0	.47	69	2.1	3.1	2.8	.88	.17	.24	.07
18	.37	.45	4.5	.75	11	1.5	3.2	1.8	.60	.21	.25	.07
19	.36	.48	2.2	1.3	5.8	.98	3.2	1.4	.44	.43	.35	.06
20	.36	.85	2.2	16	3.7	3.9	2.4	1.1	.43	.27	.32	.07
21	.35	.70	1.2	7.9	2.7	106	2.0	1.2	.35	.19	.23	.70
22	.38	.46	1.1	3.1	2.8	38	2.3	1.1	.55	.17	.18	.19
23	.38	.42	.78	1.9	3.0	13	2.3	1.3	2.3	.16	.13	.11
24	.35	.41	.67	1.4	3.4	8.6	1.7	.85	.72	.19	.20	.31
25	.36	1.7	.64	1.1	2.8	6.3	5.4	.70	.53	.19	.16	.79
26	.39	3.7	.78	.82	3.0	5.1	3.9	8.7	.38	.45	.11	.20
27	.40	1.6	.59	.77	1.9	4.2	2.4	4.7	.31	137	.14	.25
28	.42	1.2	.57	.96	1.5	3.6	2.0	2.1	.29	11	.28	.19
29	.44	.96	.55	.57	---	80	2.3	1.7	.26	12	.14	.14
30	.41	.85	.52	1.1	---	167	1.4	1.2	.21	13	.24	.10
31	.42	---	.47	1.2	---	29	---	.99	---	4.8	.31	---
TOTAL	14.18	22.24	34.40	46.75	132.08	519.26	244.4	52.04	53.42	192.81	20.91	5.76
MEAN	.46	.74	1.11	1.51	4.72	16.8	8.15	1.68	1.78	6.22	.67	.19
MAX	1.1	3.7	9.0	16	69	167	78	8.7	14	137	4.0	.79
MIN	.35	.36	.44	.37	.78	.98	1.4	.58	.21	.16	.11	.06
CFSM	.06	.09	.14	.19	.59	2.09	1.02	.21	.22	.78	.08	.02
IN.	.07	.10	.16	.22	.61	2.41	1.14	.24	.25	.90	.10	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
MEAN	2.76	3.41	4.36	12.2	13.9	17.8	10.5	4.36	6.39	2.99	1.17	17.2		
MAX	7.88	9.41	12.9	27.3	36.2	49.9	19.4	9.34	29.7	7.40	4.33	74.0		
(WY)	2000	1996	1997	1998	1998	1998	2000	1996	1995	1995	1996	1996		
MIN	.035	.061	.50	1.51	4.72	6.99	1.50	1.68	.29	.17	.015	.18		
(WY)	1999	1999	1995	2001	2001	1999	1995	2001	1999	1999	1999	1995		

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1995 - 2001
ANNUAL TOTAL	2522.97	1338.25	
ANNUAL MEAN	6.89	3.67	8.03
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			3.67
HIGHEST DAILY MEAN	289	Mar 17	1000
LOWEST DAILY MEAN	.28	Jul 11	.00
ANNUAL SEVEN-DAY MINIMUM	.36	Oct 13	.00
INSTANTANEOUS PEAK FLOW			455
MAXIMUM PEAK STAGE			7.40
INSTANTANEOUS LOW FLOW			.06*
ANNUAL RUNOFF (CFSM)	.86		.46
ANNUAL RUNOFF (INCHES)	11.73		6.22
10 PERCENT EXCEEDS	16		4.7
50 PERCENT EXCEEDS	2.0		.72
90 PERCENT EXCEEDS	.41		.21

e Estimated.

* See REMARKS.

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

