

NEUSE RIVER BASIN

0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°48'59", long 78°35'37", Wake County, Hydrologic Unit 03020201, at right upstream wingwall, on bridge at Stoneybrook Road, 0.2 mi downstream of U.S. Highway 401, and 2.9 mi southwest of New Hope.

DRAINAGE AREA.--6.84 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1984 to current year.

REVISED RECORDS.--WDR NC-95-1: 1995 (M).

GAGE.--Water-stage recorder. Datum of gage is 196.63 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.-- Records fair. Maximum discharge for period of record from rating curve extension above 1,300 ft³/s, on basis of indirect measurement of peak flow. Minimum discharge for period of record also occurred Aug. 5, 1999. Minimum discharge for current water year also occurred Sept. 22, 23.

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	2.2	4.4	1.9	2.0	2.7	2.3	115	1.9	117	3.1	2.9	8.3
2	2.1	1.3	2.2	2.1	2.2	2.2	26	1.8	21	19	2.2	4.9
3	1.9	1.4	2.3	2.0	1.9	8.1	10	1.8	5.5	4.0	2.0	2.9
4	1.8	1.4	2.1	2.0	2.3	65	6.8	1.6	3.5	28	1.8	2.3
5	1.7	1.9	2.4	2.0	10	10	5.1	1.5	2.7	25	1.6	1.9
6	1.7	1.7	2.3	2.0	3.2	6.0	4.3	1.5	2.6	4.3	1.7	1.7
7	1.6	2.2	2.0	2.0	2.5	4.9	3.9	1.6	2.3	2.6	1.6	1.5
8	1.5	2.9	2.0	4.8	2.1	4.3	3.5	1.9	2.0	16	1.2	1.4
9	e1.4	2.3	2.1	3.1	2.0	4.1	3.2	2.1	1.8	6.6	1.3	3.9
10	e1.4	2.4	2.1	2.6	2.9	4.3	3.0	1.9	1.6	8.0	1.1	1.8
11	e1.4	2.3	2.1	2.3	1.9	3.4	2.8	1.9	1.8	3.0	19	1.4
12	e1.4	2.2	2.3	2.2	11	3.8	2.8	2.9	1.6	2.2	92	1.6
13	e1.3	2.3	2.3	2.0	9.1	4.8	2.8	2.4	5.3	2.3	57	1.3
14	e1.3	24	2.5	2.0	11	3.7	2.7	1.9	58	2.4	43	1.2
15	e1.3	4.6	2.2	2.1	5.1	18	2.6	17	18	2.4	5.8	1.2
16	e1.2	2.9	4.9	2.0	3.7	7.1	2.7	46	16	2.4	3.6	1.2
17	e1.2	3.2	45	2.0	67	4.9	2.6	9.9	17	2.3	2.6	1.2
18	e1.2	1.8	5.2	2.0	6.6	4.3	2.5	10	4.4	8.4	3.7	1.2
19	e1.3	12	6.7	3.3	4.4	3.4	2.5	5.9	2.9	5.1	9.3	1.1
20	e1.3	12	5.5	30	3.6	33	2.4	5.5	2.4	2.7	9.3	2.7
21	e1.2	4.3	3.3	5.1	3.0	140	2.4	8.9	4.4	2.2	4.9	1.4
22	e1.2	2.7	7.2	3.1	10	29	2.5	5.9	4.3	1.9	2.9	1.0
23	e1.3	2.0	2.3	2.7	5.6	7.8	2.4	4.3	17	1.9	2.5	2.3
24	e1.2	1.7	2.3	2.4	3.7	5.5	8.8	2.8	11	4.4	10	36
25	e1.2	48	2.1	2.1	5.4	4.5	37	2.2	3.5	2.6	3.4	11
26	e1.2	20	2.1	1.9	3.9	4.0	6.2	15	2.5	10	2.6	3.5
27	e1.1	4.8	2.1	1.9	2.9	3.5	3.6	5.5	9.8	178	1.9	2.2
28	e1.1	3.2	2.1	1.7	2.5	3.3	2.6	11	2.7	7.9	3.7	1.5
29	e1.1	2.5	2.2	1.7	---	128	2.2	12	2.0	13	2.9	1.4
30	e1.1	2.2	2.0	11	---	28	2.0	5.4	1.7	12	15	1.4
31	e1.1	---	2.0	4.0	---	41	---	3.5	---	4.3	18	---
MEAN	1.39	6.02	4.19	3.62	6.86	19.1	9.23	6.37	11.5	12.5	10.7	3.55
MAX	2.2	48	45	30	67	140	115	46	117	178	92	36
MIN	1.1	1.3	1.9	1.7	1.9	2.2	2.0	1.5	1.6	1.9	1.1	1.0
IN.	.23	.98	.71	.61	1.05	3.22	1.51	1.07	1.88	2.11	1.80	.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

MEAN	7.05	7.60	6.68	12.1	11.2	14.3	9.54	8.40	8.45	8.98	9.06	12.8
MAX	23.3	15.7	10.3	30.3	22.0	31.9	19.2	25.9	20.3	25.0	38.0	67.4
(WY)	1996	1996	1990	1998	1998	1998	1989	1984	1989	1997	1986	1999
MIN	1.39	1.72	2.02	3.62	2.77	4.54	2.08	2.71	1.29	2.44	2.07	1.86
(WY)	2001	1992	1995	2001	1991	1986	1985	1999	1993	1987	1993	1990

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1984 - 2001

ANNUAL MEAN	9.01	7.93	9.70
HIGHEST ANNUAL MEAN			14.9
LOWEST ANNUAL MEAN			5.87
HIGHEST DAILY MEAN	178	Sep 4	890
LOWEST DAILY MEAN	.80	Jun 27	.00
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 25	.05
MAXIMUM PEAK FLOW		772	3900*
MAXIMUM PEAK STAGE		8.56	13.33
INSTANTANEOUS LOW FLOW		.82*	.00*
ANNUAL RUNOFF (INCHES)	17.93	15.75	19.27
10 PERCENT EXCEEDS	22	16	18
50 PERCENT EXCEEDS	3.2	2.6	3.4
90 PERCENT EXCEEDS	1.3	1.4	1.3

e Estimated.
* See REMARKS.

0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued

