

## 0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°49'01", long 78°35'35", 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 mi<sup>2</sup>

## 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 NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extension above 1,300 ft<sup>3</sup>/s, on basis of indirect measurement of peak flow. No flow also occurred Aug. 5, 1999.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.0	4.4	2.9	3.9	5.1	16	11	2.0	2.3	13	4.2
2	2.0	3.3	3.5	2.9	3.7	4.3	6.2	45	1.6	4.2	19	2.9
3	1.8	3.0	3.9	2.9	35	4.6	4.5	36	1.2	8.6	9.6	2.3
4	1.8	3.0	8.4	2.9	8.2	8.0	3.6	7.0	23	5.0	4.6	1.9
5	1.8	3.2	20	6.1	5.4	3.7	3.1	4.4	6.6	5.4	5.9	1.3
6	1.8	13	6.6	6.6	19	6.5	3.0	3.4	2.9	2.4	12	1.6
7	1.9	10	4.4	3.8	45	6.4	3.1	2.9	3.1	1.4	5.3	4.4
8	6.2	11	3.5	3.2	7.3	8.4	3.1	2.5	52	3.0	3.2	14
9	9.7	5.4	3.4	6.9	5.7	5.3	3.1	2.3	21	4.8	2.3	7.4
10	6.9	6.6	48	7.4	4.8	4.9	3.2	2.1	11	28	2.0	1.9
11	4.3	3.3	31	3.7	4.8	3.6	3.4	2.0	13	19	1.5	1.4
12	3.0	2.8	7.6	3.8	30	3.1	34	2.2	9.2	11	21	1.1
13	2.4	3.8	5.1	3.4	9.7	2.9	34	2.1	3.6	14	90	1.1
14	7.3	4.6	74	3.0	8.8	2.9	11	2.0	3.1	5.6	114	13
15	14	4.4	12	2.8	16	54	6.6	1.9	6.7	3.5	112	21
16	3.7	4.9	6.3	2.7	16	44	4.5	1.8	4.9	2.2	31	4.0
17	3.7	5.8	16	2.8	9.6	16	3.5	1.8	3.3	1.8	7.3	47
18	8.8	5.9	7.4	17	7.0	16	2.8	1.6	2.6	15	4.1	29
19	3.5	40	5.2	5.7	5.4	9.8	3.1	11	3.1	5.4	3.5	6.0
20	2.9	17	4.1	3.9	4.3	6.2	2.7	4.8	3.1	3.9	3.4	3.0
21	2.5	6.1	3.8	3.1	3.8	4.7	2.5	2.4	2.9	2.3	9.4	2.3
22	2.3	4.9	3.6	3.2	4.0	4.6	2.6	1.9	3.4	20	17	1.6
23	1.9	3.7	6.3	3.4	3.5	4.0	2.4	1.7	5.8	34	7.1	1.6
24	1.8	3.3	11	3.4	3.3	3.8	2.3	1.5	4.6	6.4	5.3	1.4
25	1.9	3.3	5.0	3.8	3.1	3.8	2.3	1.4	5.7	4.3	2.0	1.3
26	2.3	3.1	3.9	4.4	4.8	3.7	8.5	1.3	14	3.7	1.6	1.4
27	2.3	2.9	3.5	6.6	25	3.8	15	1.6	4.7	3.0	1.8	1.4
28	26	5.2	3.1	12	12	3.4	4.7	1.2	5.7	4.8	1.9	5.5
29	72	5.6	3.1	11	7.6	3.9	3.5	1.1	8.1	26	7.5	3.1
30	7.6	3.7	3.0	8.9	---	4.2	2.8	10	3.1	16	177	2.1
31	5.0	---	2.9	5.5	---	7.1	---	2.2	---	18	13	---
MEAN	6.95	6.56	10.5	5.15	10.9	8.47	6.70	5.62	7.83	9.19	22.8	6.34
MAX	72	40	74	17	45	54	34	45	52	34	177	47
MIN	1.8	2.8	2.9	2.7	3.1	2.9	2.3	1.1	1.2	1.4	1.5	1.1
IN.	1.17	1.07	1.76	0.87	1.72	1.43	1.09	0.95	1.28	1.55	3.85	1.03

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	7.98	7.58	7.32	11.9	11.4	13.6	9.79	8.05	8.42	9.07	11.1	11.5										
MAX	28.2	15.7	16.2	30.3	22.0	31.9	21.5	25.9	20.3	25.0	38.0	67.4										
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(1984)	(1989)	(1997)	(1986)	(1999)										
MIN	1.39	1.72	2.02	3.62	2.77	3.71	2.08	2.05	1.29	2.44	2.07	1.15										
(WY)	(2001)	(1992)	(1995)	(2001)	(1991)	(1985)	(1986)	(2002)	(1993)	(1987)	(1993)	(1985)										

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1984 - 2004	
ANNUAL MEAN	13.5		8.93		9.71	
HIGHEST ANNUAL MEAN					16.3	
LOWEST ANNUAL MEAN					5.18	
HIGHEST DAILY MEAN	275	Aug 8	177	Aug 30	890	Sep 6, 1996
LOWEST DAILY MEAN	1.8	Oct 3	1.1	May 29	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 1	1.4	May 23	0.05	Aug 1, 1999
MAXIMUM PEAK FLOW			700		3900*	
MAXIMUM PEAK STAGE			8.43		13.33	
INSTANTANEOUS LOW FLOW			0.73		0.00*	
ANNUAL RUNOFF (INCHES)	26.73				19.29	
10 PERCENT EXCEEDS	30		18		19	
50 PERCENT EXCEEDS	5.4		4.1		3.4	
90 PERCENT EXCEEDS	2.9		1.9		1.3	

\* See REMARKS.

