

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. Minimum discharge for current water year also occurred Oct. 3, 4, 5, 6.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	4.9	2.6	42	7.1	16	6.6	4.9	8.5	7.4	12	10
2	1.3	3.7	2.6	9.9	4.8	44	5.6	4.5	4.5	86	13	4.1
3	1.3	2.8	2.6	16	4.1	10	5.0	4.0	3.9	17	6.6	3.2
4	1.3	3.4	5.8	7.5	12	7.1	4.7	4.0	6.0	6.8	3.9	17
5	1.3	13	115	5.0	6.1	15	11	7.0	3.9	5.1	56	9.2
6	1.3	60	18	4.4	16	101	6.3	12	3.3	4.1	16	3.7
7	1.5	7.2	9.9	3.9	62	12	55	5.7	64	3.6	5.5	3.1
8	1.6	4.2	6.1	3.9	9.7	7.2	20	4.5	37	3.1	275	17
9	1.6	3.0	4.5	3.6	6.1	5.7	91	3.9	7.2	4.3	22	5.9
10	12	2.7	4.0	3.5	26	4.8	130	3.8	4.5	4.6	21	3.4
11	523	16	26	3.2	9.5	4.4	23	3.7	3.8	4.1	9.5	2.9
12	20	80	8.9	3.1	6.1	4.3	11	3.2	10	4.4	5.6	2.6
13	6.4	56	93	3.1	4.8	9.4	7.6	2.9	5.1	3.3	4.1	2.9
14	8.6	9.0	21	3.1	4.6	10	6.3	2.8	3.5	35	4.4	2.3
15	7.7	4.9	7.8	3.0	8.5	4.9	5.7	8.0	42	6.7	4.5	2.1
16	31	9.4	5.5	3.3	8.7	50	5.3	8.8	40	9.8	47	1.9
17	6.4	47	4.6	5.3	9.7	9.6	4.9	4.4	24	13	58	1.9
18	3.8	17	4.0	3.8	34	6.4	4.7	7.6	9.0	6.6	19	70
19	2.7	6.5	5.2	3.4	15	5.4	5.9	28	71	11	7.0	23
20	2.3	4.7	31	3.4	9.4	224	4.8	6.3	69	4.4	4.6	4.8
21	51	4.0	8.8	3.1	7.4	23	4.8	4.6	15	3.5	3.7	3.4
22	36	3.3	5.3	3.7	126	11	11	77	7.0	2.7	20	15
23	7.2	2.8	4.1	4.1	24	7.8	5.1	29	5.5	2.7	8.0	24
24	4.4	2.8	40	3.4	8.7	6.2	4.5	7.9	4.5	2.9	4.1	5.2
25	3.3	2.8	34	3.1	6.1	5.7	27	14	3.9	2.4	3.3	3.4
26	2.8	2.7	9.0	3.5	7.6	5.4	129	7.0	3.6	2.1	2.9	3.0
27	2.3	2.6	5.6	3.6	112	4.9	29	5.4	3.3	2.1	2.7	2.7
28	38	2.5	4.6	3.3	36	5.2	8.4	4.5	8.1	1.9	2.4	2.9
29	41	2.6	4.1	4.0	---	8.9	6.5	12	10	8.5	2.3	2.2
30	44	2.6	3.8	47	---	34	5.3	7.4	12	10	2.2	2.0
31	8.2	---	5.0	21	---	11	---	13	---	15	33	---
MEAN	28.2	12.8	16.2	7.55	21.1	21.8	21.5	10.1	16.4	9.49	21.9	8.49
MAX	523	80	115	47	126	224	130	77	71	86	275	70
MIN	1.3	2.5	2.6	3.0	4.1	4.3	4.5	2.8	3.3	1.9	2.2	1.9
IN.	4.76	2.09	2.73	1.27	3.22	3.67	3.51	1.70	2.68	1.60	3.69	1.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2003, BY WATER YEAR (WY)

MEAN	8.03	7.63	7.16	12.3	11.5	14.4	9.94	8.17	8.68	9.07	10.5	12.3
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	4.54	2.08	2.05	1.29	2.44	2.07	1.86
(WY)	(2001)	(1992)	(1995)	(2001)	(1991)	(1986)	(1986)	(2002)	(1993)	(1987)	(1993)	(1990)

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1984 - 2003	
ANNUAL MEAN	12.3		16.3		10.0	
HIGHEST ANNUAL MEAN					16.3	
LOWEST ANNUAL MEAN					5.87	
HIGHEST DAILY MEAN	523	Oct 11	523	Oct 11	890	Sep 6, 1996
LOWEST DAILY MEAN	0.41	Jul 9	1.3	Oct 2	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	0.49	Jun 12	1.3	Oct 1	0.05	Aug 1, 1999
MAXIMUM PEAK FLOW			2,440		3,900*	
MAXIMUM PEAK STAGE			11.83		13.33	
INSTANTANEOUS LOW FLOW			1.1*		0.00*	
ANNUAL RUNOFF (INCHES)	24.44		32.30		19.88	
10 PERCENT EXCEEDS	27		39		20	
50 PERCENT EXCEEDS	2.9		5.7		3.5	
90 PERCENT EXCEEDS	0.66		2.7		1.3	

\* See REMARKS.

