

0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°49'01", long 78°35'35", North American Datum of 1983, 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 NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.-- Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extension above 1,300 ft³/s, on basis of indirect measurement of peak flow. No flow also occurred Aug. 5, 1999.

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	1.6	0.81	3.0	2.1	3.1	2.1	61	2.8	6.2	1.9	0.69	e61
2	1.5	0.76	2.6	2.2	2.7	27	8.3	1.7	4.6	2.3	0.55	e14
3	1.5	0.55	2.6	4.4	2.7	15	5.4	1.6	1.4	2.1	0.53	e5.0
4	1.6	0.77	2.6	9.5	2.6	5.5	3.9	13	0.79	2.7	0.51	2.9
5	1.8	0.77	2.6	10	2.7	3.3	3.2	6.3	0.60	3.4	0.56	2.2
6	21	0.67	2.9	72	5.6	2.6	2.9	2.8	4.2	1.2	0.54	1.7
7	5.5	0.75	2.7	27	69	2.4	2.7	2.1	6.8	0.71	0.59	1.6
8	2.7	0.84	2.7	10	15	2.1	2.6	1.8	2.0	0.57	0.63	1.4
9	2.0	0.81	2.7	7.7	6.4	2.1	2.5	1.3	1.3	0.41	0.62	1.4
10	1.6	0.75	12	7.5	6.0	2.0	27	1.0	0.96	10	0.55	1.7
11	1.2	0.81	85	5.6	4.6	1.8	5.4	2.7	0.71	59	0.53	2.0
12	1.0	0.75	7.0	5.4	3.5	1.8	4.0	1.3	0.53	5.3	0.62	2.0
13	1.0	0.75	4.4	16	3.2	4.3	3.3	3.2	0.45	1.9	0.57	2.0
14	55	0.77	3.5	6.3	3.0	2.5	2.9	3.9	0.47	2.7	0.56	14
15	18	0.78	3.0	4.5	2.8	2.2	2.6	1.2	0.55	1.4	32	17
16	2.6	0.77	2.5	3.6	2.7	2.1	2.4	0.98	0.46	0.91	17	54
17	1.7	0.78	3.5	3.2	2.6	13	2.3	0.96	0.48	0.65	38	6.8
18	1.2	0.92	11	3.2	2.4	5.9	2.2	5.3	0.47	2.3	17	3.2
19	1.1	1.1	4.1	125	e2.3	3.6	3.8	1.6	0.61	5.5	7.1	4.2
20	1.1	1.5	3.1	43	e2.4	5.5	2.9	0.99	0.60	7.6	2.6	2.0
21	1.7	1.7	2.7	23	e2.5	15	2.1	0.83	0.60	3.6	1.6	1.7
22	1.1	1.9	2.5	9.2	2.2	5.0	1.8	0.82	0.66	1.3	e0.86	1.6
23	1.3	1.8	2.7	129	2.1	3.2	1.7	0.73	0.70	3.8	0.57	1.2
24	1.0	27	6.2	21	2.0	2.5	1.6	0.59	0.65	5.7	2.9	1.2
25	1.3	18	3.1	26	1.9	2.3	1.7	0.47	0.49	114	1.8	1.2
26	1.5	7.6	2.7	8.1	2.1	17	1.7	0.47	14	57	273	2.4
27	1.3	4.7	2.6	5.9	2.1	23	1.6	0.48	23	8.2	18	2.3
28	1.1	3.5	2.4	5.0	2.1	5.0	1.8	0.43	40	3.6	12	1.7
29	1.2	3.3	2.4	4.4	---	3.4	2.0	0.49	25	2.0	e4.8	1.4
30	1.1	3.2	2.1	3.5	---	2.7	2.0	0.70	3.3	1.3	e140	1.3
31	1.0	---	2.1	3.1	---	95	---	1.0	---	0.93	e200	---
MEAN	4.461	2.970	6.290	19.56	5.796	9.061	5.643	2.050	4.753	10.13	25.07	7.203
MAX	55	27	85	129	69	95	61	13	40	114	273	61
MIN	1.0	0.55	2.1	2.1	1.9	1.8	1.6	0.43	0.45	0.41	0.51	1.2
IN.	0.75	0.48	1.06	3.30	0.88	1.53	0.92	0.35	0.78	1.71	4.23	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	6.908	7.343	6.654	12.53	10.95	13.97	9.334	8.069	8.245	9.044	9.903	12.50								
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	2.05	1.29	2.44	2.07	1.86								
(WY)	2001	1992	1995	2001	1991	1986	1986	2002	1993	1987	1993	1990								

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1984 - 2002
ANNUAL MEAN	8.122	8.643	9.639
HIGHEST ANNUAL MEAN			14.9
LOWEST ANNUAL MEAN			5.87
HIGHEST DAILY MEAN	178 Jul 27	273 Aug 26	890 Sep 6 1996
LOWEST DAILY MEAN	0.55 Nov 3	0.41 Jul 9	0.00 Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	0.73 Nov 1	0.49 Jun 12	0.05 Aug 1 1999
MAXIMUM PEAK FLOW		1600 Aug 26	3900 Sep 6 1996
MAXIMUM PEAK STAGE		10.69 Aug 26	13.33 Sep 6 1996
INSTANTANEOUS LOW FLOW		0.26 Jul 10	0.00* Aug 3 1999
ANNUAL RUNOFF (INCHES)	16.12	17.16	19.15
10 PERCENT EXCEEDS	17	17	19
50 PERCENT EXCEEDS	2.7	2.4	3.3
90 PERCENT EXCEEDS	1.2	0.65	1.2

e Estimated.

* See REMARKS.

0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued

