

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 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. Minimum discharge for current water year also occurred Sept. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.4	4.5	1.8	3.8	9.2	5.0	13	1.2	2.0	4.1	0.04
2	e1.7	1.5	2.3	1.7	3.0	4.6	15	4.8	15	1.5	1.8	e0.02
3	e1.7	1.7	2.1	2.1	21	3.4	6.4	2.8	4.3	1.2	1.3	e0.02
4	e5.4	8.4	2.0	1.8	8.0	2.9	3.7	2.4	2.7	0.89	1.1	e0.01
5	e2.0	4.2	1.9	1.7	4.2	2.6	4.8	3.2	1.8	1.6	5.4	e0.01
6	1.1	1.8	2.0	1.6	3.3	2.4	3.5	62	15	0.91	1.5	e0.02
7	1.1	1.5	2.3	1.5	3.0	2.4	3.2	7.8	154	6.3	0.90	e0.02
8	1.2	1.4	2.2	1.5	2.7	85	25	3.7	26	39	0.60	e0.01
9	1.0	1.3	7.9	1.4	2.5	9.2	21	2.7	4.9	3.2	52	e0.01
10	1.1	1.6	25	1.3	4.6	4.6	5.1	2.2	4.4	1.6	17	e0.01
11	1.1	1.6	5.1	1.4	2.7	4.2	3.9	1.9	3.7	1.2	7.2	e0.01
12	1.1	68	3.1	1.4	2.5	3.8	4.7	2.0	2.7	0.92	2.5	e0.02
13	103	28	2.4	1.8	2.2	3.1	29	1.9	2.1	0.77	1.6	e0.04
14	19	4.0	2.0	e150	3.1	6.5	7.1	1.8	1.8	0.79	1.8	e0.50
15	7.8	2.7	1.8	e110	2.9	2.9	4.2	1.9	1.5	0.94	0.78	0.85
16	3.1	2.2	1.8	e54	2.5	43	3.3	4.8	1.2	0.51	0.80	0.25
17	1.8	1.8	1.8	e20	2.2	63	3.0	2.4	1.2	0.48	15	0.67
18	1.5	2.1	1.8	e3.8	2.1	9.6	2.9	2.7	1.1	0.37	2.8	0.35
19	2.6	2.3	2.1	2.6	2.1	5.0	2.9	15	1.3	14	1.7	0.59
20	1.6	2.2	2.0	2.8	2.6	3.8	2.7	24	1.2	63	0.93	5.2
21	1.7	2.7	2.0	6.3	3.4	2.9	2.5	9.5	0.97	3.9	0.59	7.8
22	1.3	2.9	2.2	4.7	3.4	5.7	2.6	5.0	2.5	14	0.33	1.3
23	1.2	46	15	3.5	2.2	35	2.7	3.0	2.9	8.7	1.4	0.78
24	2.0	13	5.3	2.4	45	7.0	2.2	3.0	1.2	2.2	0.45	0.38
25	1.5	4.7	2.9	2.5	7.4	3.8	2.1	3.0	0.95	1.5	0.31	0.12
26	1.2	3.1	4.7	2.4	4.2	3.2	2.0	2.2	1.2	0.96	0.24	0.02
27	1.2	7.3	4.4	2.0	3.3	2.8	2.1	1.7	3.8	0.55	0.17	0.22
28	1.5	46	3.0	1.9	67	71	1.9	1.3	19	0.39	0.29	0.00
29	1.4	5.2	2.6	2.3	---	11	2.6	1.2	11	12	0.12	0.00
30	1.6	4.6	2.6	38	---	5.4	2.4	1.0	3.2	5.5	0.08	0.00
31	1.5	---	2.1	6.0	---	5.9	---	1.0	---	10	0.06	---
MEAN	5.70	9.17	3.96	14.1	7.75	13.7	5.98	6.29	9.79	6.48	4.03	0.64
MAX	103	68	25	150	67	85	29	62	154	63	52	7.8
MIN	1.0	1.3	1.8	1.3	2.1	2.4	1.9	1.0	0.95	0.37	0.06	0.00
IN.	0.96	1.50	0.67	2.37	1.18	2.31	0.98	1.06	1.60	1.09	0.68	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	7.87	7.65	7.16	12.0	11.3	13.6	9.62	7.97	8.48	8.95	10.8	11.0
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	0.64
(WY)	(2001)	(1992)	(1995)	(2001)	(1991)	(1985)	(1986)	(2002)	(1993)	(1987)	(1993)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL MEAN	8.49		7.30		9.60	
HIGHEST ANNUAL MEAN					16.3	2003
LOWEST ANNUAL MEAN					5.18	1985
HIGHEST DAILY MEAN	177	Aug 30	154	Jun 7	890	Sep 6, 1996
LOWEST DAILY MEAN	1.0	Oct 9	0.00	Sep 28	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 6	0.01	Sep 4	0.01	Sep 4, 2005
MAXIMUM PEAK FLOW			951	Jun 7	3,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.33	Jun 7	13.33	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 28	0.00*	Aug 3, 1999
ANNUAL RUNOFF (INCHES)	16.90		14.50		19.06	
10 PERCENT EXCEEDS	18		15		19	
50 PERCENT EXCEEDS	3.6		2.4		3.3	
90 PERCENT EXCEEDS	1.5		0.53		1.2	

* See REMARKS.
e Estimated.

