

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

LOCATION.--Lat 36°08'59", long 78°53'48", Durham County, Hydrologic Unit 03020201, on right bank at bridge on Secondary Road 1617 and 1.6 mi southwest of Bahama.

DRAINAGE AREA.--8.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.95 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmarks. Maximum gage height for period of record occurred Sept. 6, 1996, discharge not determined. No flow occurred on many days during the period.

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	1.7	1.4	5.2	2.2	5.7	16	7.2	6.4	0.40	0.23	0.10	0.03
2	1.6	1.6	4.2	2.1	4.5	8.5	17	3.4	e13	0.19	0.08	0.02
3	1.6	1.6	3.5	2.3	8.4	6.3	10	2.2	e5.0	0.18	0.07	0.15
4	1.5	12	3.2	2.2	10	5.3	6.8	1.8	2.8	0.15	0.07	0.06
5	1.2	7.3	2.9	2.2	6.5	5.1	5.7	1.7	1.3	0.13	0.06	0.02
6	1.0	3.5	2.8	2.2	5.0	4.5	5.1	2.6	0.86	0.12	0.06	0.01
7	1.0	2.6	3.8	2.1	4.3	4.0	e9.0	2.2	0.77	0.14	0.05	0.01
8	1.0	2.1	3.4	2.1	3.8	15	e13	1.7	0.76	0.35	0.06	0.00
9	0.96	1.8	3.0	1.9	3.6	9.4	e11	1.5	9.3	0.20	14	0.00
10	1.1	1.5	53	2.1	4.1	6.5	e7.0	1.3	7.2	0.16	3.0	0.00
11	1.0	1.5	17	2.1	3.2	5.6	e6.0	1.2	2.6	0.14	0.61	0.00
12	1.0	13	8.6	1.9	3.1	5.5	e5.0	1.1	1.6	0.11	0.29	0.00
13	12	18	6.2	4.1	2.8	4.6	e5.5	1.3	1.3	0.10	0.19	0.00
14	8.6	6.2	4.9	90	3.4	4.6	e5.0	1.2	1.6	0.09	0.15	0.00
15	2.9	4.1	4.0	18	3.8	3.9	e4.5	1.1	1.1	0.10	0.12	0.00
16	1.8	3.2	3.6	9.2	3.4	7.6	e4.0	1.1	0.83	0.09	0.10	0.00
17	1.4	2.7	3.4	6.2	2.9	31	e4.0	0.91	0.65	0.08	0.16	0.00
18	1.2	2.6	3.1	4.8	2.4	17	e3.5	0.83	0.54	0.08	0.10	0.00
19	2.4	2.4	3.1	4.2	2.2	9.9	e3.5	0.78	0.49	0.08	0.12	0.00
20	9.7	2.3	2.7	4.3	2.2	7.8	e3.5	1.0	0.42	0.08	0.12	0.00
21	3.2	2.2	2.4	4.7	2.6	6.3	3.1	1.1	0.37	0.07	0.11	0.00
22	2.3	2.0	2.8	4.3	2.5	5.5	2.7	0.89	0.34	0.15	0.09	0.00
23	1.9	6.2	4.8	3.8	2.3	12	3.7	0.77	0.35	0.65	0.11	0.00
24	2.0	11	4.7	4.1	6.2	13	3.0	0.67	0.26	0.20	0.12	0.00
25	1.8	7.2	3.3	3.6	6.0	8.3	2.5	0.77	0.26	0.11	0.10	0.00
26	1.6	4.5	2.8	3.9	4.1	7.1	2.3	0.71	0.24	0.08	0.09	0.00
27	1.5	3.5	2.5	3.3	3.4	6.4	2.3	0.58	0.27	0.07	0.07	0.00
28	1.5	26	2.2	2.6	31	62	2.0	0.51	0.26	0.06	0.07	0.00
29	1.5	8.9	2.4	2.5	---	22	2.3	0.52	0.33	0.11	0.06	0.00
30	1.8	5.8	2.4	9.4	---	11	2.6	0.47	0.30	0.12	0.07	0.00
31	1.5	---	2.2	9.0	---	8.1	---	0.45	---	0.10	0.06	---
TOTAL	75.26	168.7	174.1	217.4	143.4	339.8	162.8	42.76	55.50	4.52	20.46	0.30
MEAN	2.43	5.62	5.62	7.01	5.12	11.0	5.43	1.38	1.85	0.15	0.66	0.01
MAX	12	26	53	90	31	62	17	6.4	13	0.65	14	0.15
MIN	0.96	1.4	2.2	1.9	2.2	3.9	2.0	0.45	0.24	0.06	0.05	0.00
CFSM	0.30	0.70	0.70	0.88	0.64	1.37	0.68	0.17	0.23	0.02	0.08	0.00
IN.	0.35	0.78	0.81	1.01	0.67	1.58	0.76	0.20	0.26	0.02	0.10	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	5.26	4.05	6.23	10.1	12.2	16.2	10.4	4.41	5.42	2.71	2.84	12.2
MAX	32.9	11.7	20.7	27.3	36.2	49.9	30.0	15.1	29.7	7.95	10.6	74.0
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(1995)	(2003)	(2004)	(1996)
MIN	0.03	0.06	0.26	1.51	1.55	2.74	1.14	0.19	0.29	0.10	0.01	0.01
(WY)	(1999)	(1999)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(1999)	(2002)	(1999)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	1,657.58		1,405.00		7.63	
ANNUAL MEAN	4.53		3.85		17.3	
HIGHEST ANNUAL MEAN					1.67	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	144	Aug 30	90	Jan 14	1,000	Sep 6, 1996
LOWEST DAILY MEAN	0.05	Jul 16	0.00	Sep 8	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	0.07	Jul 11	0.00	Sep 8	0.00	Aug 3, 1999
MAXIMUM PEAK FLOW			210	Mar 28	NOT DETERMINED*	
MAXIMUM PEAK STAGE			6.34	Mar 28	12.56	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 8	0.00*	Aug 3, 1999
ANNUAL RUNOFF (CFSM)	0.566		0.481		0.954	
ANNUAL RUNOFF (INCHES)	7.71		6.53		12.96	
10 PERCENT EXCEEDS	8.5		8.7		13	
50 PERCENT EXCEEDS	2.7		2.2		2.3	
90 PERCENT EXCEEDS	0.25		0.07		0.09	

* See REMARKS.

e Estimated.

