

02142914 GUM BRANCH NEAR THRIFT, NC

LOCATION.--Lat 35°17'58", long 80°56'47", Mecklenburg County, Hydrologic Unit 03050101, on left wingwall on downstream side of bridge on Secondary Road 1775, 0.6 mi upstream from mouth and 1.7 mi northwest of Thrift, NC.

DRAINAGE AREA.--4.90 mi².

PERIOD OF RECORD.--May 2004 to September 2005

GAGE.--Water-stage recorder crest-stage gage. Datum of gage is 630.77 ft, above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for 2004 and 2005 water years from rating curve extended above 350 ft³/s. Minimum discharge for period of record and current water year also occurred on Sept. 30, 2005.

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	---	---	---	---	---	---	---	e5.1	0.54	1.1	2.6	0.96
2	---	---	---	---	---	---	---	e7.1	0.41	1.1	4.2	0.78
3	---	---	---	---	---	---	---	e6.8	0.41	0.98	2.4	0.72
4	---	---	---	---	---	---	---	e2.8	0.50	0.94	1.0	0.85
5	---	---	---	---	---	---	---	1.2	0.49	2.3	1.00	0.93
6	---	---	---	---	---	---	---	1.1	0.43	1.6	0.89	1.1
7	---	---	---	---	---	---	---	1.0	0.53	0.81	0.81	84
8	---	---	---	---	---	---	---	1.2	0.61	0.72	0.81	88
9	---	---	---	---	---	---	---	2.3	0.54	0.73	0.81	5.1
10	---	---	---	---	---	---	---	2.0	0.54	0.72	0.82	1.8
11	---	---	---	---	---	---	---	1.0	0.47	0.92	1.2	1.5
12	---	---	---	---	---	---	---	0.92	0.41	0.72	21	1.3
13	---	---	---	---	---	---	---	0.92	0.61	0.75	9.0	1.2
14	---	---	---	---	---	---	---	0.89	42	0.72	47	1.2
15	---	---	---	---	---	---	---	0.86	6.5	0.69	4.5	1.1
16	---	---	---	---	---	---	---	0.81	2.1	0.70	2.1	1.1
17	---	---	---	---	---	---	---	0.84	1.1	5.2	1.4	29
18	---	---	---	---	---	---	---	0.74	0.79	6.4	1.3	4.1
19	---	---	---	---	---	---	---	0.65	0.70	0.76	1.1	1.5
20	---	---	---	---	---	---	---	0.63	0.64	0.63	1.0	1.1
21	---	---	---	---	---	---	---	0.63	63	0.63	1.7	1.1
22	---	---	---	---	---	---	---	0.62	2.6	0.63	1.3	1.1
23	---	---	---	---	---	---	---	0.60	19	0.69	0.91	1.1
24	---	---	---	---	---	---	---	0.56	7.5	0.71	0.92	1.0
25	---	---	---	---	---	---	---	0.57	61	0.69	0.92	1.0
26	---	---	---	---	---	---	---	0.63	28	0.76	1.0	1.0
27	---	---	---	---	---	---	---	0.70	3.4	21	1.1	24
28	---	---	---	---	---	---	---	0.55	2.0	21	1.1	93
29	---	---	---	---	---	---	---	0.55	1.4	28	1.5	5.7
30	---	---	---	---	---	---	---	0.47	1.2	4.3	2.0	3.4
31	---	---	---	---	---	---	---	1.6	---	1.6	2.9	---
TOTAL	---	---	---	---	---	---	---	46.34	249.42	108.50	120.29	359.74
MEAN	---	---	---	---	---	---	---	1.49	8.31	3.50	3.88	12.0
MAX	---	---	---	---	---	---	---	7.1	63	28	47	93
MIN	---	---	---	---	---	---	---	0.47	0.41	0.63	0.81	0.72
CFSM	---	---	---	---	---	---	---	0.31	1.70	0.71	0.79	2.45
IN.	---	---	---	---	---	---	---	0.35	1.89	0.82	0.91	2.73

SUMMARY STATISTICS

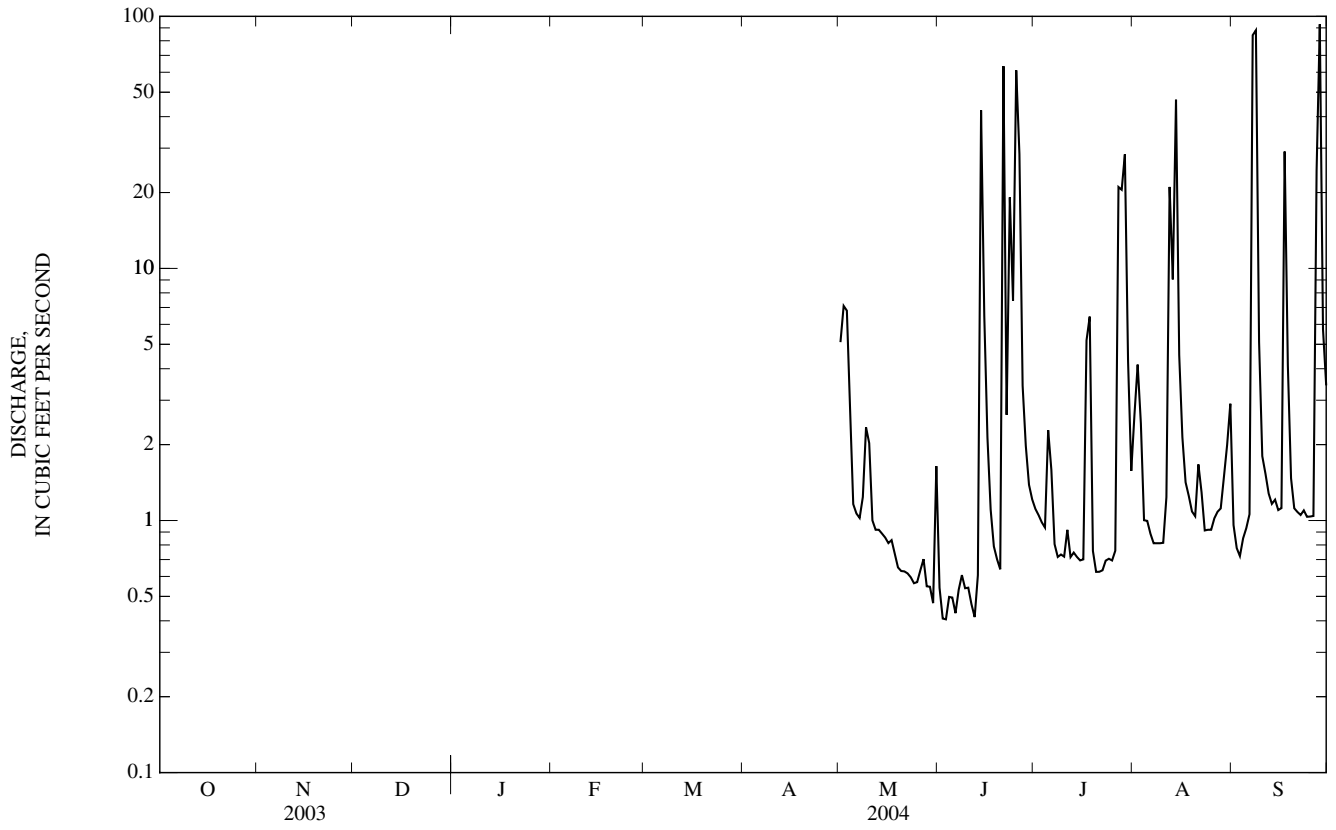
FOR 2004 WATER YEAR

ANNUAL TOTAL	884.29
ANNUAL MEAN	5.78
HIGHEST DAILY MEAN	93 Sep 28
LOWEST DAILY MEAN	0.41 Jun 2
ANNUAL SEVEN-DAY MINIMUM	0.47 Jun 1
MAXIMUM PEAK FLOW	622* Sep 8
MAXIMUM PEAK STAGE	7.48 Sep 8
INSTANTANEOUS LOW FLOW	0.34 Jun 4
ANNUAL RUNOFF (CFSM)	1.18
ANNUAL RUNOFF (INCHES)	6.71
10 PERCENT EXCEEDS	15
50 PERCENT EXCEEDS	1.0
90 PERCENT EXCEEDS	0.56

* See REMARKS.

e Estimated.

02142914 GUM BRANCH NEAR THRIFT, NC—Continued



SANTEE RIVER BASIN

02142914 GUM BRANCH NEAR THRIFT, NC—Continued

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	e2.9	1.8	e3.1	1.2	2.1	7.6	5.9	4.2	4.5	1.3	1.7	0.65
2	e2.8	2.0	2.7	1.2	1.8	4.2	5.0	1.8	27	1.1	1.1	0.71
3	e13	2.6	2.5	1.2	19	3.2	3.6	1.5	3.0	0.99	0.90	0.84
4	e5.5	20	2.2	1.2	5.8	2.8	3.1	1.4	1.6	0.92	0.89	0.95
5	e2.9	4.6	2.2	1.2	3.3	2.4	2.8	1.4	1.2	0.91	0.87	1.3
6	e2.4	2.5	2.7	1.3	2.4	2.2	2.6	1.5	1.1	0.87	0.92	1.3
7	e2.3	2.2	3.7	1.3	2.1	2.0	2.7	1.4	1.0	3.0	1.0	1.5
8	e2.2	2.0	2.5	1.3	2.0	30	4.2	1.3	2.3	1.4	103	1.2
9	2.2	2.1	10	1.1	1.8	5.7	3.0	1.3	86	0.94	12	1.2
10	2.2	2.0	67	1.1	1.9	3.7	2.3	4.6	9.4	0.82	1.8	1.3
11	2.2	2.1	5.6	1.2	1.7	3.0	2.2	4.1	1.9	0.95	1.1	1.1
12	2.1	6.1	3.1	1.2	1.6	2.6	22	1.8	1.2	1.9	1.7	1.0
13	2.8	3.6	2.5	1.2	1.5	2.3	28	1.8	1.0	1.8	1.3	1.00
14	2.4	2.2	2.1	41	2.7	3.7	41	1.6	0.90	0.89	0.79	0.96
15	2.2	2.0	1.8	4.9	2.1	2.4	6.6	1.8	0.79	0.91	0.78	0.94
16	2.2	2.0	1.7	3.1	1.8	23	4.2	1.5	0.72	0.92	0.71	0.81
17	2.2	2.0	1.7	2.5	1.7	25	3.4	1.3	0.67	0.93	1.7	1.4
18	2.0	2.1	1.6	2.0	1.5	6.6	3.0	1.3	0.69	0.93	0.72	1.1
19	2.0	2.1	1.5	1.8	1.5	4.2	2.7	1.4	24	0.94	0.72	0.87
20	2.1	2.2	1.5	1.8	1.7	3.4	2.4	4.4	2.8	0.95	0.72	0.69
21	1.8	2.4	1.5	1.6	9.1	3.0	2.2	1.6	1.2	1.0	0.71	0.72
22	1.9	2.5	1.4	1.6	3.9	9.0	2.8	1.3	0.89	1.8	0.71	0.65
23	1.7	3.2	11	1.5	2.4	32	2.6	1.3	0.77	1.0	0.88	0.58
24	2.1	14	3.2	1.4	17	6.9	1.9	1.2	0.71	0.71	e0.82	0.50
25	1.8	7.4	2.0	1.5	4.4	4.3	1.8	1.2	0.65	0.71	0.82	0.42
26	e1.8	3.0	1.6	1.5	2.9	3.6	1.8	1.1	1.4	0.80	0.80	0.41
27	e1.8	7.7	1.4	1.4	2.9	4.9	1.8	1.1	13	0.83	0.83	0.43
28	1.7	11	1.3	1.3	52	154	1.7	0.99	39	12	0.81	0.41
29	1.9	3.8	1.3	1.5	---	11	1.7	0.82	4.1	16	0.67	0.32
30	1.8	e2.9	1.3	6.7	---	5.6	2.8	0.93	1.7	23	0.66	0.28
31	1.8	---	1.3	3.4	---	10	---	0.91	---	7.2	0.68	---
TOTAL	80.7	126.1	149.0	96.2	154.6	384.3	171.8	53.85	235.19	88.42	142.81	25.54
MEAN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.74	7.84	2.85	4.61	0.85
MAX	13	20	67	41	52	154	41	4.6	86	23	103	1.5
MIN	1.7	1.8	1.3	1.1	1.5	2.0	1.7	0.82	0.65	0.71	0.66	0.28
CFSM	0.53	0.86	0.98	0.63	1.13	2.53	1.17	0.35	1.60	0.58	0.94	0.17
IN.	0.61	0.96	1.13	0.73	1.17	2.92	1.30	0.41	1.79	0.67	1.08	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.62	8.08	3.18	4.24	6.42
MAX	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.74	8.31	3.50	4.61	12.0
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2004)
MIN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.49	7.84	2.85	3.88	0.85
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2004)	(2005)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005

ANNUAL TOTAL	1,240.09	1,708.51	
ANNUAL MEAN	5.06	4.68	5.01
HIGHEST ANNUAL MEAN			5.78
LOWEST ANNUAL MEAN			4.68
HIGHEST DAILY MEAN	93	Sep 28	154
LOWEST DAILY MEAN	0.41	Jun 2	0.28
ANNUAL SEVEN-DAY MINIMUM	0.47	Jun 1	0.40
MAXIMUM PEAK FLOW			1,000*
MAXIMUM PEAK STAGE			9.50
INSTANTANEOUS LOW FLOW			0.22*
ANNUAL RUNOFF (CFSM)	1.03		0.955
ANNUAL RUNOFF (INCHES)	9.41		12.97
10 PERCENT EXCEEDS	7.6		7.5
50 PERCENT EXCEEDS	1.7		1.8
90 PERCENT EXCEEDS	0.63		0.81

* See REMARKS.

e Estimated.

02142914 GUM BRANCH NEAR THRIFT, NC—Continued

