

Water-Data Report 2007

02142914 GUM BRANCH NEAR THRIFT, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°17'58", long 80°56'47" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on left wingwall on downstream side of Secondary Road 1775 bridge, 0.6 mile upstream from mouth, and 1.7 miles northwest of Thrift, NC.

DRAINAGE AREA.--4.90 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2004 to current year.

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

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record and current water year from rating curve extended above 600 ft³/s by slope-area computation of peak flow. Minimum discharge for period of record and current water year also occurred September 30, 2007.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.91	1.3	2.5	15	8.9	74	2.7	1.6	0.96	0.52	0.82	4.9
2	1.0	1.3	2.1	5.2	7.1	276	3.0	1.5	0.85	0.40	0.64	1.4
3	1.0	1.4	2.0	3.6	3.8	9.4	1.8	1.5	1.9	0.42	0.45	0.39
4	1.1	1.5	1.9	3.3	3.0	5.1	2.0	1.6	0.89	0.43	0.31	0.34
5	1.2	1.6	1.9	15	2.8	4.0	1.7	1.7	0.73	0.46	0.31	0.34
6	1.6	1.5	1.9	13	2.6	3.5	1.6	1.7	0.70	0.48	0.35	0.33
7	1.4	15	1.8	42	2.6	3.5	1.6	1.5	0.66	0.43	0.47	0.37
8	7.5	19	1.7	63	2.5	3.1	1.6	1.4	0.84	0.44	0.39	0.34
9	2.2	3.2	1.6	9.2	2.6	2.8	1.6	1.4	0.99	0.62	0.42	0.38
10	1.2	2.0	1.6	5.3	2.4	2.7	1.6	1.4	0.63	0.87	0.41	0.33
11	0.96	2.0	1.6	4.2	2.2	2.5	5.2	1.3	0.69	0.54	0.40	0.31
12	1.6	12	1.6	3.7	2.3	2.4	27	2.1	0.81	0.66	0.40	0.27
13	0.96	2.6	1.6	3.3	25	2.4	3.1	1.6	0.75	0.39	0.44	0.29
14	0.94	2.0	1.8	3.0	26	2.4	5.7	1.3	5.1	0.40	0.44	0.62
15	0.95	3.1	1.7	2.9	5.4	2.2	85	1.2	1.4	1.1	0.46	0.87
16	1.0	68	1.8	2.8	3.9	33	11	1.2	0.76	0.89	0.48	0.30
17	34	6.0	1.7	2.6	3.4	7.1	4.3	1.2	0.66	0.44	0.51	0.28
18	10	3.3	1.7	3.2	3.0	4.0	3.2	1.1	0.62	0.54	0.49	0.33
19	2.0	2.6	1.7	3.2	2.7	3.3	6.3	1.1	0.59	0.36	0.45	0.30
20	1.6	2.1	1.7	2.6	2.7	3.3	8.0	1.0	0.56	0.37	0.47	0.33
21	1.4	28	1.8	11	2.7	3.0	3.0	1.0	0.55	0.39	0.50	0.35
22	1.5	162	1.9	18	2.5	3.0	2.5	1.0	0.55	0.39	0.64	0.33
23	1.4	14	5.7	5.0	2.3	2.8	2.2	0.96	0.55	0.42	0.59	0.31
24	1.2	5.7	3.0	3.9	2.2	2.6	2.0	0.85	0.63	0.47	0.55	0.28
25	1.3	4.1	53	3.3	35	2.5	2.0	0.82	12	0.52	0.49	0.28
26	1.2	3.3	11	3.2	9.6	2.4	1.8	0.81	1.1	0.43	37	0.33
27	4.4	2.9	4.7	2.9	4.7	2.4	10	0.81	0.51	1.1	4.8	0.29
28	8.7	2.7	3.5	2.7	3.6	2.2	2.4	0.81	0.45	2.1	0.56	0.24
29	1.6	2.5	3.0	2.5	---	2.3	1.9	0.81	0.41	0.39	0.82	0.18
30	1.3	2.3	3.0	2.5	---	2.2	1.7	0.80	0.48	0.38	0.76	0.13
31	1.2	---	4.1	2.4	---	2.0	---	0.86	---	0.47	0.47	---
Total	98.32	379.0	147.7	263.5	177.5	474.1	207.5	37.93	38.32	17.82	56.29	15.74
Mean	3.17	12.6	4.76	8.50	6.34	15.3	6.92	1.22	1.28	0.57	1.82	0.52
Max	34	162	53	63	35	276	85	2.1	12	2.1	37	4.9
Min	0.91	1.3	1.6	2.4	2.2	2.0	1.6	0.80	0.41	0.36	0.31	0.13
Cfsm	0.65	2.58	0.97	1.73	1.29	3.12	1.41	0.25	0.26	0.12	0.37	0.11
In.	0.75	2.88	1.12	2.00	1.35	3.60	1.58	0.29	0.29	0.14	0.43	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.13	7.13	6.34	5.91	4.97	9.95	4.85	1.51	5.52	3.09	5.36	7.46
Max	6.62	12.6	9.46	8.50	6.34	15.3	6.92	1.74	8.31	5.42	11.1	16.5
(WY)	(2006)	(2007)	(2006)	(2007)	(2007)	(2007)	(2007)	(2005)	(2004)	(2006)	(2006)	(2006)
Min	2.60	4.20	4.76	3.10	3.05	2.16	1.91	1.22	1.28	0.57	1.82	0.52
(WY)	(2005)	(2005)	(2007)	(2005)	(2006)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2004 - 2007	
Annual total	2,221.07		1,913.72			
Annual mean	6.09		5.24		5.35	
Highest annual mean					6.11	2006
Lowest annual mean					4.68	2005
Highest daily mean	176	Aug 22	276	Mar 2	276	Mar 2, 2007
Lowest daily mean	0.50	Aug 4	0.13	Sep 30	0.13	Sep 30, 2007
Annual seven-day minimum	0.61	Jun 16	0.25	Sep 24	0.25	Sep 24, 2007
Maximum peak flow			^a 1,020	Mar 2	^a 1,320	Aug 22, 2006
Maximum peak stage			8.89	Mar 2	9.94	Aug 22, 2006
Instantaneous low flow			^a 0.12	Sep 29	^a 0.12	Sep 29, 2007
Annual runoff (cfsm)	1.24		1.07		1.09	
Annual runoff (inches)	16.86		14.53		14.82	
10 percent exceeds	9.2		8.3		8.3	
50 percent exceeds	1.6		1.6		1.7	
90 percent exceeds	0.66		0.39		0.59	

^a See Remarks.

