

Water-Data Report 2008

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 upstream side of Secondary Road 1775 bridge, 0.6 mile upstream from mouth, and 1.7 miles northwest of Thrift.

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 also occurred September 30, October 1, 2007.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.16	0.26	0.32	1.3	38	1.0	2.0	1.5	0.50	0.26	4.1	1.4
2	0.17	0.27	0.30	0.83	4.1	0.92	1.6	1.2	0.46	0.26	0.76	0.78
3	0.22	0.24	0.33	0.67	1.8	0.92	3.3	1.1	0.43	0.38	0.56	0.68
4	0.29	0.22	0.34	0.70	1.3	29	12	1.0	0.41	49	0.47	0.63
5	0.33	0.25	0.34	0.69	1.1	19	30	0.93	0.38	8.6	0.39	0.85
6	0.32	0.27	0.34	0.63	1.0	3.1	10	0.90	0.40	2.4	0.50	0.69
7	0.30	0.30	0.34	0.63	0.90	21	4.8	0.80	0.34	0.94	0.50	0.55
8	0.28	0.28	0.36	0.63	0.85	7.4	3.3	0.78	0.32	22	0.59	0.55
9	0.30	0.29	0.36	0.63	0.82	2.9	2.7	1.8	0.37	6.1	0.59	0.59
10	0.24	0.34	0.39	0.92	0.77	2.1	2.3	0.83	0.43	13	0.40	7.1
11	0.22	0.34	0.87	1.7	0.82	1.7	2.1	1.8	0.39	3.5	0.40	6.9
12	0.25	0.35	0.52	0.86	0.86	1.4	3.9	1.1	0.49	0.95	0.38	1.1
13	0.22	0.36	0.36	0.71	2.3	1.2	2.4	0.83	0.45	0.58	0.63	0.73
14	0.23	0.37	0.45	0.66	2.1	1.2	2.0	0.73	0.46	0.49	0.69	0.62
15	0.25	0.42	2.6	0.63	1.0	59	1.8	0.72	0.49	0.41	0.56	0.73
16	0.22	0.47	8.7	0.63	0.92	19	1.7	2.7	0.49	0.35	0.49	21
17	0.22	0.39	0.75	17	1.00	4.9	1.6	0.79	0.45	0.37	0.53	5.2
18	0.22	0.37	0.49	3.6	1.8	3.3	1.6	0.73	0.40	0.34	0.48	1.8
19	0.37	0.39	0.46	3.5	1.0	16	1.5	0.78	0.43	0.32	0.64	1.3
20	0.41	0.40	0.41	2.8	0.89	11	1.6	0.62	0.41	0.39	0.53	1.1
21	0.32	0.41	1.0	1.2	0.90	3.8	1.5	0.61	0.48	0.49	0.34	0.91
22	0.29	1.7	0.58	1.1	2.1	2.9	1.5	0.54	17	6.3	0.39	0.88
23	0.40	0.44	2.0	1.1	1.2	2.3	1.5	0.51	16	5.4	0.40	1.0
24	0.57	0.32	0.99	0.90	0.96	2.0	1.5	0.60	0.95	0.52	0.39	0.85
25	2.6	0.31	0.55	0.81	0.96	1.8	1.6	0.55	0.36	0.35	0.32	0.71
26	5.1	0.39	3.4	0.81	9.7	1.7	1.7	0.50	0.31	0.38	121	23
27	0.89	0.41	1.0	0.80	2.4	1.6	6.1	0.50	1.7	0.39	798	24
28	0.35	0.34	3.8	0.74	1.4	1.6	22	19	0.39	0.39	7.6	3.5
29	0.30	0.33	10	0.72	1.1	1.7	5.0	3.6	0.28	0.61	2.7	2.5
30	0.28	0.32	27	0.73	---	1.5	2.2	1.0	0.26	0.31	1.4	1.4
31	0.27	---	7.2	0.74	---	1.6	---	0.67	---	54	2.3	---
Total	16.59	11.55	76.55	49.37	84.05	228.54	136.8	49.72	46.23	179.78	949.03	113.05
Mean	0.54	0.39	2.47	1.59	2.90	7.37	4.56	1.60	1.54	5.80	30.6	3.77
Max	5.1	1.7	27	17	38	59	30	19	17	54	798	24
Min	0.16	0.22	0.30	0.63	0.77	0.92	1.5	0.50	0.26	0.26	0.32	0.55
Cfs/m	0.11	0.08	0.50	0.33	0.59	1.50	0.93	0.33	0.31	1.18	6.25	0.77
In.	0.13	0.09	0.58	0.37	0.64	1.74	1.04	0.38	0.35	1.36	7.20	0.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.23	5.45	5.38	4.83	4.44	9.31	4.78	1.53	4.73	3.63	10.4	6.73
Max	6.62	12.6	9.46	8.50	6.34	15.3	6.92	1.74	8.31	5.80	30.6	16.5
(WY)	(2006)	(2007)	(2006)	(2007)	(2007)	(2007)	(2007)	(2005)	(2004)	(2008)	(2008)	(2006)
Min	0.54	0.39	2.47	1.59	2.90	2.16	1.91	1.22	1.28	0.57	1.82	0.52
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2004 - 2008	
Annual total	1,393.39		1,941.26			
Annual mean	3.82		5.30		5.34	
Highest annual mean					6.11	2006
Lowest annual mean					4.68	2005
Highest daily mean	276	Mar 2	798	Aug 27	798	Aug 27, 2008
Lowest daily mean	0.13	Sep 30	0.16	Oct 1	0.13	Sep 30, 2007
Annual seven-day minimum	0.20	Sep 27	0.23	Oct 11	0.20	Sep 27, 2007
Maximum peak flow			^a 2,400	Aug 27	^a 2,400	Aug 27, 2008
Maximum peak stage			10.79	Aug 27	10.79	Aug 27, 2008
Instantaneous low flow			0.12	Oct 1	^a 0.12	Sep 29, 2007
Annual runoff (cfsm)	0.779		1.08		1.09	
Annual runoff (inches)	10.58		14.74		14.79	
10 percent exceeds	5.1		6.2		7.4	
50 percent exceeds	0.82		0.77		1.5	
90 percent exceeds	0.30		0.31		0.41	

^aSee Remarks.