

Water-Data Report 2010

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.--5.28 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR-US-2009: Drainage area.

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 streamgage.

REMARKS.--No estimated daily discharges. Records fair. 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 20, 2010.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.35	31	1.7	3.6	7.2	2.4	4.7	1.1	45	2.0	0.30	0.24
2	0.34	3.2	80	2.8	37	4.2	4.0	0.93	25	0.44	0.24	0.23
3	0.41	1.5	20	2.4	21	5.9	3.5	1.7	11	0.39	0.23	0.24
4	0.43	1.0	5.3	2.2	8.8	3.4	3.1	1.3	3.2	0.36	0.25	0.30
5	2.2	0.91	3.8	2.1	208	3.6	2.9	1.6	2.2	0.39	4.2	0.33
6	0.63	0.81	2.7	2.0	33	3.5	2.6	0.90	1.6	0.39	65	0.40
7	0.46	0.77	2.3	1.9	9.6	2.5	2.4	0.78	1.6	0.40	20	0.43
8	0.41	0.72	12	2.0	6.6	2.4	4.3	0.73	1.1	0.46	2.2	0.36
9	0.39	0.87	87	1.7	6.7	2.4	4.1	0.63	1.1	0.44	1.2	0.46
10	0.46	24	8.4	1.6	5.4	2.4	2.4	0.69	1.1	0.40	0.57	0.52
11	0.46	158	4.9	1.5	4.1	3.7	2.1	0.96	1.2	0.48	0.33	0.45
12	0.79	37	4.7	1.6	3.8	22	2.0	0.89	1.1	27	0.28	0.69
13	0.70	7.6	7.3	1.5	5.3	25	2.2	0.73	0.93	3.7	0.24	0.36
14	1.8	4.0	4.6	1.5	4.3	11	2.1	0.74	0.93	1.6	3.4	0.29
15	1.8	2.6	3.5	1.5	6.4	5.2	1.8	0.82	0.93	0.59	13	0.23
16	0.98	1.9	2.7	1.7	4.4	4.0	2.0	1.5	0.94	0.44	1.3	0.20
17	0.81	1.5	2.4	94	3.5	3.3	1.8	10	0.94	0.48	0.37	0.18
18	0.53	1.8	21	9.2	3.1	3.1	1.6	2.0	0.91	0.71	0.27	0.17
19	0.48	1.7	29	5.4	2.8	2.7	1.5	11	0.89	0.43	203	0.18
20	0.46	1.3	7.6	4.4	2.7	2.6	1.6	1.6	0.92	0.40	4.6	0.20
21	0.46	1.1	4.8	18	2.4	5.2	2.6	1.5	0.74	0.39	1.1	0.24
22	0.47	1.9	3.7	11	14	8.9	1.5	1.4	0.55	0.40	0.69	0.19
23	0.51	18	3.0	5.3	5.1	3.9	1.7	1.0	0.55	0.28	0.50	0.21
24	5.9	4.1	2.7	69	5.3	2.9	1.6	2.6	0.59	0.30	0.42	0.24
25	0.90	2.5	225	175	4.6	2.7	6.4	2.3	0.66	0.28	0.46	0.32
26	0.52	2.6	21	9.4	3.5	2.8	1.6	1.6	0.74	0.24	0.60	1.3
27	20	3.3	8.5	5.5	3.0	2.4	2.0	1.0	0.78	0.24	0.40	19
28	16	1.8	6.0	4.5	2.7	39	2.7	2.9	0.78	0.38	0.28	15
29	1.7	1.6	4.0	3.9	---	119	1.2	8.0	1.1	0.31	0.23	4.0
30	1.1	1.5	3.2	5.4	---	10	1.2	1.6	9.0	0.30	0.26	4.9
31	1.2	---	5.5	6.3	---	5.9	---	9.8	---	0.30	0.28	---
Total	63.65	320.58	598.3	457.9	424.3	318.0	75.2	74.30	118.08	44.92	326.20	51.86
Mean	2.05	10.7	19.3	14.8	15.2	10.3	2.51	2.40	3.94	1.45	10.5	1.73
Max	20	158	225	175	208	119	6.4	11	45	27	203	19
Min	0.34	0.72	1.7	1.5	2.4	2.4	1.2	0.63	0.55	0.24	0.23	0.17
Cfsm	0.39	2.02	3.66	2.80	2.87	1.94	0.47	0.45	0.75	0.27	1.99	0.33
In.	0.45	2.26	4.22	3.23	2.99	2.24	0.53	0.52	0.83	0.32	2.30	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.77	5.92	7.97	6.73	6.04	10.4	4.57	1.97	4.86	3.02	9.48	5.32
Max	6.62	12.6	19.3	14.8	15.2	15.3	6.92	3.77	8.31	5.80	30.6	16.5
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2007)	(2007)	(2009)	(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 2009		Water Year 2010		Water Years 2004 - 2010	
Annual total	2,434.64		2,873.29			
Annual mean	6.67		7.87		5.70	
Highest annual mean					7.87	2010
Lowest annual mean					4.68	2005
Highest daily mean	225	Dec 25	225	Dec 25	798	Aug 27, 2008
Lowest daily mean	0.31	Jul 12	0.17	Sep 18	0.13	Sep 30, 2007
Annual seven-day minimum	0.39	Jul 11	0.19	Sep 16	0.19	Sep 16, 2010
Maximum peak flow			^a 1,170	Dec 25	^a 2,400	Aug 27, 2008
Maximum peak stage			7.88	Dec 25	10.79	Aug 27, 2008
Instantaneous low flow			^a 0.11	Sep 18	^a 0.11	Sep 18, 2010
Annual runoff (cfsm)	1.26		1.49		1.08	
Annual runoff (inches)	17.15		20.24		14.67	
10 percent exceeds	11		12		8.8	
50 percent exceeds	1.8		1.8		1.5	
90 percent exceeds	0.49		0.33		0.43	

^a See Remarks.

