



Water-Data Report 2011

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.--Records fair except those for estimated daily discharges, which are poor. 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 20, 2010. Minimum discharge for current water year not determined.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.74	0.65	21	1.3	0.64	7.4	4.6	1.1	0.88	0.39	0.25	0.26
2	0.30	0.64	1.9	2.7	12	2.3	3.1	0.94	0.77	0.30	0.23	0.88
3	0.75	0.75	1.1	0.96	1.9	1.5	2.5	1.4	0.75	0.30	0.27	0.72
4	1.1	3.3	0.77	0.63	23	1.4	2.1	16	0.69	0.55	0.77	0.10
5	0.27	1.4	0.71	0.62	46	1.7	12	2.0	0.71	0.55	261	e34
6	0.18	0.68	0.59	0.69	5.4	28	3.6	1.5	0.77	0.34	57	e14
7	0.13	0.53	0.50	0.73	2.8	6.4	2.5	1.2	0.70	0.31	1.1	1.6
8	0.13	0.51	0.49	0.58	2.2	3.6	2.2	1.1	0.71	2.6	1.4	0.82
9	0.13	0.58	0.49	0.49	1.8	18	5.7	1.0	1.5	6.8	1.4	0.53
10	0.18	0.63	0.49	0.63	1.5	29	6.1	1.2	2.1	0.60	0.32	0.49
11	0.14	0.69	0.49	1.4	1.2	5.9	2.7	5.1	1.2	0.46	0.26	0.50
12	0.20	0.49	2.1	1.4	1.0	3.7	2.1	1.3	1.9	0.31	0.40	0.52
13	0.35	0.53	0.99	1.1	0.93	2.8	1.6	1.3	0.73	18	1.9	0.59
14	0.42	0.65	0.65	0.79	0.93	2.4	1.5	1.4	0.54	4.9	4.1	0.61
15	0.49	0.63	0.58	0.74	0.83	2.1	1.4	1.3	0.49	1.1	2.3	0.62
16	0.49	0.72	0.76	0.86	0.86	2.1	38	3.9	0.55	1.1	0.35	0.41
17	0.42	0.75	1.0	0.89	0.95	1.7	6.4	80	0.49	0.77	0.25	0.33
18	0.42	0.69	0.82	1.1	0.95	1.6	3.3	6.8	0.53	0.59	0.23	0.38
19	0.38	1.1	0.82	1.2	0.93	1.6	2.7	3.5	0.77	0.32	0.23	0.44
20	0.44	0.57	0.75	0.85	0.88	1.5	2.1	2.3	0.85	0.42	0.23	0.49
21	0.46	0.62	0.68	0.70	0.90	1.4	1.8	1.7	1.0	0.62	0.21	2.2
22	0.30	0.64	0.69	0.62	0.93	1.3	3.8	1.5	2.5	0.33	0.23	1.0
23	0.24	0.70	0.63	0.62	0.85	1.4	2.4	1.3	0.49	0.30	0.24	e15
24	0.22	0.66	0.62	0.62	0.87	1.6	1.7	1.0	0.39	0.24	0.20	2.3
25	0.37	0.75	0.69	0.62	0.95	1.2	1.8	1.0	0.34	0.23	0.18	2.4
26	1.2	1.3	1.6	3.5	0.91	1.9	1.4	0.78	0.31	0.25	e0.15	2.5
27	2.0	0.99	1.0	1.7	0.93	11	2.2	19	0.31	0.25	e0.15	1.4
28	1.5	0.69	0.69	0.90	12	5.5	2.1	5.1	6.4	0.25	0.21	1.2
29	0.87	0.65	0.65	0.74	---	3.0	1.2	1.7	7.7	0.30	0.25	0.54
30	0.83	1.2	0.50	0.62	---	36	1.1	1.1	1.2	0.28	0.28	0.44
31	0.62	---	0.49	0.62	---	7.6	---	1.3	---	3.1	0.24	---
Total	16.27	24.69	45.24	30.92	125.04	196.6	125.7	169.82	38.27	46.86	336.33	87.27
Mean	0.52	0.82	1.46	1.00	4.47	6.34	4.19	5.48	1.28	1.51	10.8	2.91
Max	2.0	3.3	21	3.5	46	36	38	80	7.7	18	261	34
Min	0.13	0.49	0.49	0.49	0.64	1.2	1.1	0.78	0.31	0.23	0.15	0.10
Cfsm	0.10	0.16	0.28	0.19	0.85	1.20	0.79	1.04	0.24	0.29	2.05	0.55
In.	0.11	0.17	0.32	0.22	0.88	1.39	0.89	1.20	0.27	0.33	2.37	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.45	5.19	7.04	5.91	5.82	9.80	4.51	2.41	4.41	2.83	9.65	5.02
Max	6.62	12.6	19.3	14.8	15.2	15.3	6.92	5.48	8.31	5.80	30.6	16.5
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2007)	(2007)	(2011)	(2004)	(2008)	(2008)	(2006)
Min	0.52	0.39	1.46	1.00	2.90	2.16	1.91	1.22	1.28	0.57	1.82	0.52
(WY)	(2011)	(2008)	(2011)	(2011)	(2008)	(2006)	(2006)	(2007)	(2011)	(2007)	(2007)	(2007)

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	Calendar Year 2010	Water Year 2011	Water Years 2004 - 2011	
Annual total	1,976.96	1,243.01		
Annual mean	5.42	3.41	5.37	
Highest annual mean			7.87	2010
Lowest annual mean			3.41	2011
Highest daily mean	208 Feb 5	261 Aug 5	798 Aug 27, 2008	
Lowest daily mean	0.13 Oct 7	0.10 Sep 4	0.10 Sep 4, 2011	
Annual seven-day minimum	0.16 Oct 6	0.16 Oct 6	0.16 Oct 6, 2010	
Maximum peak flow		a1,680 Aug 5	a2,400 Aug 27, 2008	
Maximum peak stage		9.21 Aug 5	10.79 Aug 27, 2008	
Instantaneous low flow		aNot determined	a0.11 Sep 18, 2010	
Annual runoff (cfsm)	1.03	0.645	1.02	
Annual runoff (inches)	13.93	8.76	13.82	
10 percent exceeds	8.3	5.0	7.6	
50 percent exceeds	1.1	0.87	1.5	
90 percent exceeds	0.28	0.28	0.40	

^a See Remarks.

