

Water-Data Report 2007

**0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC**

Neuse Basin  
Contentnea Subbasin

LOCATION.--Lat 35°31'03", long 77°33'52" referenced to North American Datum of 1927, Greene County, NC, Hydrologic Unit 03020203, at Secondary Road 1335, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.--0.34 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 2006 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.5 ft above NGVD of 1929.

REMARKS.--Records poor. Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. No flow occurred on many days during the period. The missing daily mean discharge values during the period May 2006 through June 2007 are due to the gage height record exceeding the gage height/discharge rating. The missing daily mean discharge values during the period July 11-20, 2007 are due to an unreliable gage height/discharge relationship. The maximum discharge for the period of record was not determined.

## 0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	0.009	0.406	0.018	---
2	---	---	---	---	---	---	---	---	0.009	0.285	0.015	---
3	---	---	---	---	---	---	---	0.011	0.267	0.216	0.013	0.811
4	---	---	---	---	---	---	---	0.007	0.060	---	0.011	0.450
5	---	---	---	---	---	---	---	0.052	0.097	0.889	0.122	0.874
6	---	---	---	---	---	---	---	0.140	0.065	0.799	0.096	1.5
7	---	---	---	---	---	---	---	---	0.058	0.822	0.023	0.547
8	---	---	---	---	---	---	---	---	0.063	0.298	0.279	0.310
9	---	---	---	---	---	---	---	0.361	0.089	0.141	0.514	0.212
10	---	---	---	---	---	---	---	0.189	0.046	0.088	0.148	0.148
11	---	---	---	---	---	---	---	0.148	0.097	0.058	0.409	0.111
12	---	---	---	---	---	---	---	0.090	0.148	0.045	0.226	0.086
13	---	---	---	---	---	---	---	0.052	0.187	0.035	0.139	0.085
14	---	---	---	---	---	---	---	0.072	---	0.028	0.074	0.132
15	---	---	---	---	---	---	---	0.242	0.547	0.027	0.050	0.153
16	---	---	---	---	---	---	---	0.138	0.305	0.020	0.039	0.099
17	---	---	---	---	---	---	---	0.071	0.234	0.015	0.033	0.058
18	---	---	---	---	---	---	---	0.161	0.167	0.014	0.029	0.038
19	---	---	---	---	---	---	---	0.349	0.110	0.015	0.029	0.030
20	---	---	---	---	---	---	---	0.181	0.076	0.019	0.025	0.025
21	---	---	---	---	---	---	---	0.072	---	0.017	0.022	0.027
22	---	---	---	---	---	---	---	0.033	0.315	0.016	---	0.027
23	---	---	---	---	---	---	---	0.022	0.178	---	0.163	0.027
24	---	---	---	---	---	---	---	0.019	0.128	0.104	0.077	0.033
25	---	---	---	---	---	---	---	0.023	0.141	0.176	0.042	0.035
26	---	---	---	---	---	---	---	0.037	0.576	0.076	0.025	0.027
27	---	---	---	---	---	---	---	0.052	1.4	0.046	0.018	0.016
28	---	---	---	---	---	---	---	0.012	0.866	0.036	0.017	0.016
29	---	---	---	---	---	---	---	0.009	0.583	0.045	0.013	0.064
30	---	---	---	---	---	---	---	0.010	0.492	0.035	0.039	0.048
31	---	---	---	---	---	---	---	0.021	---	0.025	---	---
<b>Total</b>	---	---	---	---	---	---	---	2.574	7.313	4.796	2.708	5.989
<b>Mean</b>	---	---	---	---	---	---	---	0.10	0.26	0.17	0.09	0.21
<b>Max</b>	---	---	---	---	---	---	---	0.361	1.4	0.889	0.514	1.5
<b>Min</b>	---	---	---	---	---	---	---	0.007	0.009	0.014	0.011	0.016
<b>Cfsm</b>	---	---	---	---	---	---	---	0.28	0.77	0.49	0.27	0.63
<b>In.</b>	---	---	---	---	---	---	---	0.28	0.80	0.52	0.30	0.66

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2006, BY WATER YEAR (WY)**

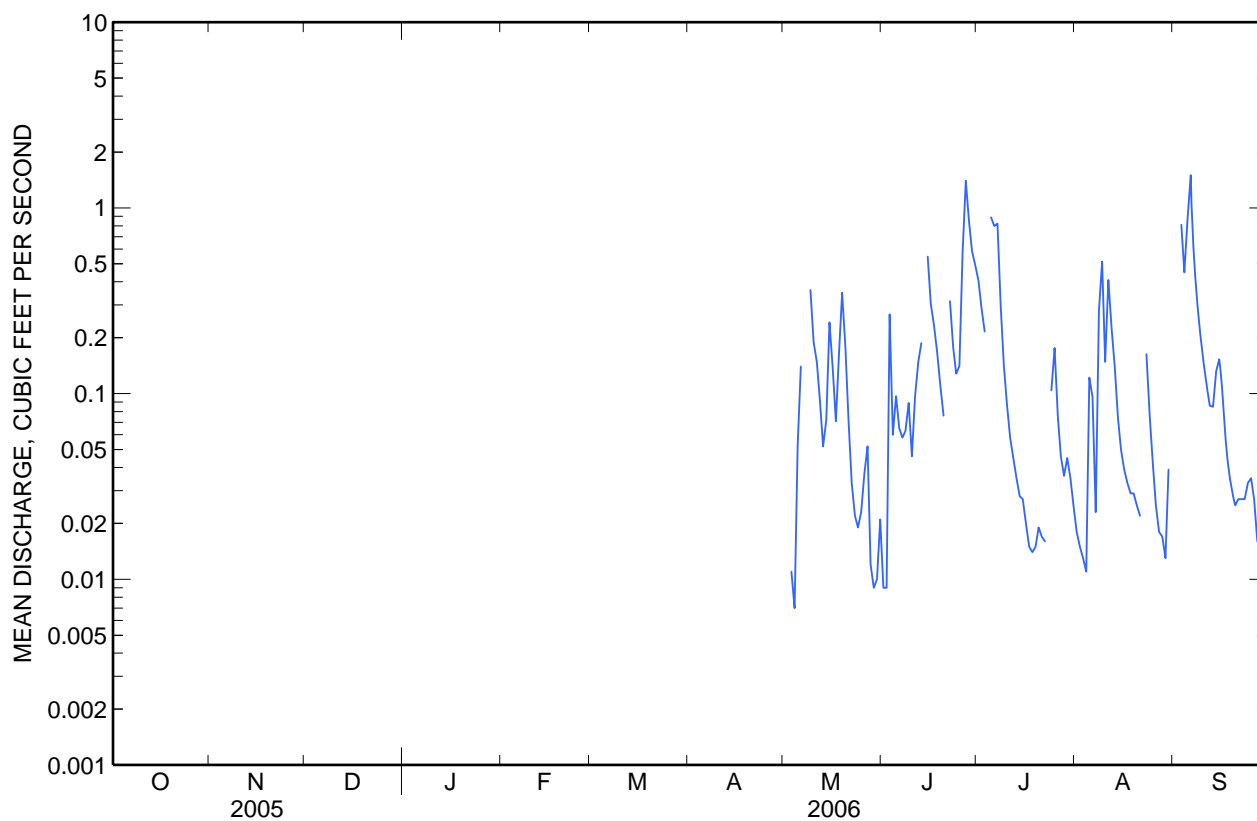
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	---	---	---	---	---	---	---	0.10	0.26	0.17	0.09	0.21
<b>Max</b>	---	---	---	---	---	---	---	0.10	0.26	0.17	0.09	0.21
<b>(WY)</b>	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2006)	(2006)	(2006)	(2006)	(2006)
<b>Min</b>	---	---	---	---	---	---	---	0.10	0.26	0.17	0.09	0.21
<b>(WY)</b>	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2006)	(2006)	(2006)	(2006)	(2006)

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC—Continued

**SUMMARY STATISTICS**

<b>Water Year 2006</b>	
<b>Annual total</b>	23.380
<b>Annual mean</b>	0.17
<b>Highest daily mean</b>	1.5 Sep 6
<b>Lowest daily mean</b>	0.007 May 4
<b>Annual seven-day minimum</b>	0.017 Jul 16
<b>Maximum peak flow</b>	<sup>a</sup> NOT DETERMINED
<b>Maximum peak stage</b>	8.17 Sep 1
<b>Instantaneous low flow</b>	0.002 May 5
<b>Annual runoff (cfsm)</b>	0.488
<b>Annual runoff (inches)</b>	2.56
<b>10 percent exceeds</b>	0.484
<b>50 percent exceeds</b>	0.071
<b>90 percent exceeds</b>	0.015

<sup>a</sup> See Remarks.



## 0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC—Continued

**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	0.050	0.243	0.245	0.309	0.352	0.069	0.016	0.007	0.003	0.042	0.002	0.000
2	0.045	0.221	0.242	0.240	0.860	0.129	0.019	0.008	0.003	0.033	0.001	0.000
3	0.039	0.166	0.212	0.186	0.440	0.125	0.018	0.007	0.209	0.035	0.001	0.000
4	0.037	0.148	0.246	0.178	0.283	0.076	0.016	0.010	0.133	0.035	0.001	0.000
5	0.034	0.127	0.291	0.188	0.192	0.064	0.010	0.031	0.043	0.020	0.000	0.000
6	0.021	0.105	0.279	0.396	0.146	0.054	0.010	0.152	0.045	0.013	0.000	0.000
7	0.012	---	0.267	0.317	0.126	0.045	0.009	0.023	0.042	0.011	0.000	0.000
8	0.013	0.979	0.180	0.369	0.111	0.045	0.008	0.019	0.034	0.012	0.000	0.000
9	0.034	0.558	0.157	0.235	0.092	0.038	0.008	0.044	0.025	0.010	0.000	0.000
10	0.022	0.402	0.149	0.164	0.081	0.028	0.007	0.026	0.027	0.012	0.048	0.000
11	0.016	0.319	0.146	0.131	0.073	0.026	0.009	0.023	0.032	---	0.002	0.000
12	0.014	---	0.127	0.115	0.071	0.014	0.168	0.032	0.027	---	0.002	0.000
13	0.012	1.7	0.131	0.115	0.074	0.015	0.028	0.024	0.014	---	0.001	0.000
14	0.008	0.740	0.145	0.106	0.169	0.014	0.015	0.012	0.017	---	0.001	0.000
15	0.004	0.549	0.164	0.107	0.138	0.025	---	0.015	0.019	---	0.001	0.024
16	0.003	1.4	0.121	0.100	0.113	---	---	0.011	0.041	---	0.001	0.000
17	0.019	0.736	0.102	0.060	0.099	0.761	0.693	0.017	0.018	---	0.000	0.000
18	0.410	0.419	0.099	0.085	0.087	0.486	0.343	0.005	0.013	---	0.000	0.000
19	0.188	0.341	---	0.129	0.074	0.356	0.225	0.009	0.014	---	0.000	0.000
20	0.102	0.272	0.049	0.095	0.082	0.287	0.160	0.009	0.022	---	0.000	0.025
21	0.057	0.394	0.049	0.104	0.078	0.192	0.122	0.007	0.015	0.015	0.002	0.007
22	0.060	---	0.114	0.819	0.083	0.160	0.081	0.010	0.013	0.009	0.000	0.003
23	0.059	1.9	0.385	0.393	0.075	0.121	0.051	0.007	0.012	0.006	0.000	0.002
24	0.047	0.838	0.278	0.239	0.085	0.095	0.025	0.006	0.012	0.005	0.000	0.001
25	0.046	0.510	---	0.185	0.111	0.058	0.017	0.005	0.011	0.004	0.000	0.001
26	0.044	0.389	2.8	0.177	0.117	0.040	0.010	0.003	0.013	0.004	0.002	0.000
27	0.364	0.304	0.935	0.190	0.082	0.038	0.012	0.003	0.011	0.003	0.001	0.000
28	---	0.274	0.480	0.158	0.065	0.031	0.010	0.002	0.010	0.002	0.000	0.000
29	0.594	0.241	0.354	0.108	---	0.021	0.008	0.002	0.456	0.002	0.000	0.000
30	0.386	0.181	0.307	0.105	---	0.020	0.008	0.001	0.088	0.005	0.000	0.000
31	0.287	---	0.284	0.098	---	0.022	---	0.002	---	0.003	0.000	---
<b>Total</b>	3.027	14.456	9.338	6.201	4.359	3.455	2.106	0.532	1.422	0.281	0.066	0.063
<b>Mean</b>	0.10	0.54	0.32	0.20	0.16	0.12	0.08	0.02	0.05	0.01	0.00	0.00
<b>Max</b>	0.594	1.9	2.8	0.819	0.860	0.761	0.693	0.152	0.456	0.042	0.048	0.025
<b>Min</b>	0.003	0.105	0.049	0.060	0.065	0.014	0.007	0.001	0.003	0.002	0.000	0.000
<b>Cfsm</b>	0.30	1.57	0.95	0.59	0.46	0.34	0.22	0.05	0.14	0.04	0.01	0.01
<b>In.</b>	0.33	1.58	1.02	0.68	0.48	0.38	0.23	0.06	0.16	0.03	0.01	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.10	0.54	0.32	0.20	0.16	0.12	0.08	0.05	0.15	0.10	0.05	0.10
<b>Max</b>	0.10	0.54	0.32	0.20	0.16	0.12	0.08	0.10	0.26	0.17	0.09	0.21
<b>(WY)</b>	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)
<b>Min</b>	0.10	0.54	0.32	0.20	0.16	0.12	0.08	0.02	0.05	0.01	0.00	0.00
<b>(WY)</b>	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 2006 - 2007 <sup>a</sup>	
Annual total	50.201	45.306		
Annual mean	0.22	0.13	0.14	
Highest annual mean			0.17	2006
Lowest annual mean			0.13	2007
Highest daily mean	2.8 Dec 26	2.8 Dec 26	2.8	Dec 26, 2006
Lowest daily mean	0.003 Oct 16	0.000 Aug 5	0.000	Aug 5, 2007
Annual seven-day minimum	0.011 Oct 11	0.000 Aug 28	0.000	Aug 28, 2007
Maximum peak flow		<sup>b</sup> NOT DETERMINED	<sup>b</sup> NOT DETERMINED	
Maximum peak stage		5.37 Apr 15	8.17	Sep 1, 2006
Instantaneous low flow		<sup>b</sup> 0.000 Aug 4	<sup>b</sup> 0.000	Aug 4, 2007
Annual runoff (cfsm)	0.650	0.385	0.415	
Annual runoff (inches)	5.49	4.96	5.64	
10 percent exceeds	0.547	0.353	0.365	
50 percent exceeds	0.102	0.035	0.045	
90 percent exceeds	0.016	0.000	0.001	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.

