



Water-Data Report 2009

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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2006 to February 2009 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 55.5 ft above National Geodetic Vertical Datum 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. Missing daily mean discharge values during the period February 2008 to February 2009 are due to the gage height record exceeding the gage height/discharge rating. 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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.000	0.000	0.000	0.067	0.053	0.193	0.188	0.111	---	---	0.000	0.000
2	0.000	0.000	0.000	0.058	0.041	0.157	0.133	0.083	---	---	0.000	0.000
3	0.000	0.000	0.000	0.038	0.039	0.137	0.100	0.060	---	---	0.000	0.000
4	0.000	0.000	0.000	0.031	0.037	0.174	0.250	0.062	---	---	0.000	0.000
5	0.000	0.000	0.000	0.027	0.040	---	---	0.044	---	---	0.000	0.004
6	0.000	0.000	0.000	0.021	0.034	0.336	---	0.027	---	---	0.000	0.030
7	0.000	0.000	0.000	0.017	0.030	---	0.818	0.023	---	---	0.000	0.011
8	0.000	0.000	0.000	0.018	0.027	0.946	0.558	0.021	---	---	0.000	0.011
9	0.000	0.000	0.000	0.019	0.027	0.596	0.435	0.014	---	---	0.000	---
10	0.000	0.000	0.000	0.019	0.023	0.452	0.379	0.008	---	0.004	0.000	0.031
11	0.000	0.000	0.000	0.013	0.020	0.404	0.306	0.031	---	0.005	0.000	0.025
12	0.000	0.000	0.000	0.007	0.021	0.375	0.270	0.052	---	0.003	0.000	0.022
13	0.000	0.000	0.000	0.007	0.722	0.347	0.264	0.033	---	0.003	0.000	0.023
14	0.000	0.000	0.000	0.009	0.438	0.365	0.157	0.013	---	0.003	0.000	0.026
15	0.000	0.000	0.017	0.010	0.283	---	0.103	0.002	---	0.004	0.000	0.027
16	0.000	0.000	0.121	0.012	0.266	0.723	0.064	0.013	---	0.001	0.000	---
17	0.000	0.000	0.002	0.015	0.275	0.340	0.049	0.013	---	0.000	0.000	0.013
18	0.000	0.000	0.001	0.012	---	0.282	0.035	0.015	---	0.000	0.000	0.005
19	0.000	0.000	0.001	0.026	0.431	0.266	0.026	0.015	---	0.000	0.000	0.001
20	0.000	0.000	0.001	0.034	0.292	0.253	---	0.062	---	0.000	0.000	0.001
21	0.000	0.000	0.001	0.027	0.254	0.195	0.552	---	---	0.000	0.000	0.003
22	0.000	0.000	0.001	0.029	1.2	0.178	0.335	---	---	0.000	0.000	0.004
23	0.000	0.000	0.004	0.034	0.602	0.119	0.264	---	---	0.000	0.000	0.006
24	0.000	0.000	0.002	0.037	0.395	0.094	0.221	---	---	---	0.000	0.007
25	0.000	0.000	0.002	0.032	0.296	0.081	0.160	---	---	0.000	0.000	0.013
26	0.000	0.000	0.317	0.030	0.368	0.087	0.086	---	---	0.000	0.006	---
27	0.136	0.000	0.054	0.024	0.321	0.084	0.120	---	---	0.000	---	0.133
28	0.005	0.000	0.030	0.024	0.229	0.070	0.397	---	---	0.000	0.015	0.073
29	0.001	0.000	0.022	0.027	0.198	0.055	0.296	---	---	0.000	0.010	0.052
30	0.000	0.000	0.145	0.027	---	0.080	0.186	---	---	0.000	0.006	0.041
31	0.000	---	0.095	0.023	---	0.141	---	---	---	0.000	0.001	---
Total	0.142	0.000	0.816	0.774	6.962	7.530	6.752	0.702	---	0.023	0.038	0.562
Mean	0.00	0.00	0.03	0.02	0.25	0.27	0.25	0.04	---	0.00	0.00	0.02
Max	0.136	0.000	0.317	0.067	1.2	0.946	0.818	0.111	---	0.005	0.015	0.133
Min	0.000	0.000	0.000	0.007	0.020	0.055	0.026	0.002	---	0.000	0.000	0.000
Cfsm	0.01	0.00	0.08	0.07	0.73	0.79	0.74	0.10	---	0.00	0.00	0.06
In.	0.02	0.00	0.09	0.08	0.76	0.82	0.74	0.08	---	0.00	0.00	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.05	0.25	0.17	0.11	0.20	0.19	0.16	0.05	0.15	0.07	0.03	0.08
Max	0.10	0.54	0.32	0.20	0.25	0.27	0.25	0.10	0.26	0.17	0.09	0.21
(WY)	(2007)	(2007)	(2007)	(2007)	(2008)	(2008)	(2008)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	0.00	0.00	0.03	0.02	0.16	0.12	0.08	0.02	0.05	0.00	0.00	0.00
(WY)	(2008)	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)	(2007)	(2007)	(2008)	(2008)	(2007)

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

	Calendar Year 2007	Water Year 2008	Water Years 2006 - 2008^a
Annual total	19.443	24.301	
Annual mean	0.06	0.08	0.12
Highest annual mean			0.17 2006
Lowest annual mean			0.08 2008
Highest daily mean	0.860 Feb 2	1.2 Feb 22	2.8 Dec 26, 2006
Lowest daily mean	0.000 Aug 5	0.000 Oct 1	0.000 Aug 5, 2007
Annual seven-day minimum	0.000 Aug 28	0.000 Oct 1	0.000 Aug 28, 2007
Maximum peak flow		b Not Determined	b Not Determined
Maximum peak stage		5.04 Feb 18	8.17 Sep 1, 2006
Instantaneous low flow		b0.000 Oct 1	b0.000 Aug 4, 2007
Annual runoff (cfsm)	0.162	0.235	0.346
Annual runoff (inches)	2.13	2.66	4.70
10 percent exceeds	0.160	0.287	0.336
50 percent exceeds	0.009	0.011	0.028
90 percent exceeds	0.000	0.000	0.000

^a See Period of Record.^b See Remarks.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.038	0.018	0.158	0.043	0.131	---	---	---	---	---	---	---
2	0.031	0.018	0.105	0.047	0.132	---	---	---	---	---	---	---
3	0.026	0.023	0.081	0.041	0.138	---	---	---	---	---	---	---
4	0.024	0.020	0.069	0.044	0.115	---	---	---	---	---	---	---
5	0.023	0.018	0.066	0.047	0.086	---	---	---	---	---	---	---
6	0.023	0.015	0.057	---	0.086	---	---	---	---	---	---	---
7	0.021	0.015	0.055	0.227	0.082	---	---	---	---	---	---	---
8	0.018	0.018	0.039	0.120	0.082	---	---	---	---	---	---	---
9	0.023	0.018	0.038	0.076	0.084	---	---	---	---	---	---	---
10	0.025	0.015	0.055	0.063	0.069	---	---	---	---	---	---	---
11	0.025	0.015	---	0.163	0.069	---	---	---	---	---	---	---
12	0.027	0.016	---	0.151	0.080	---	---	---	---	---	---	---
13	0.024	---	---	---	0.080	---	---	---	---	---	---	---
14	0.024	---	0.255	0.196	0.097	---	---	---	---	---	---	---
15	0.023	---	0.200	0.145	0.121	---	---	---	---	---	---	---
16	0.020	---	0.168	0.090	0.105	---	---	---	---	---	---	---
17	0.024	0.110	0.138	0.068	0.090	---	---	---	---	---	---	---
18	0.021	0.061	0.124	---	---	---	---	---	---	---	---	---
19	0.015	0.040	0.120	0.224	---	---	---	---	---	---	---	---
20	0.013	0.030	0.107	0.205	---	---	---	---	---	---	---	---
21	0.012	0.031	0.252	0.171	---	---	---	---	---	---	---	---
22	0.011	0.038	0.147	0.202	---	---	---	---	---	---	---	---
23	0.011	0.046	0.092	0.237	---	---	---	---	---	---	---	---
24	0.017	0.044	0.084	0.200	---	---	---	---	---	---	---	---
25	0.021	0.078	0.085	0.162	---	---	---	---	---	---	---	---
26	0.023	0.058	0.076	0.138	---	---	---	---	---	---	---	---
27	0.022	0.051	0.072	0.128	---	---	---	---	---	---	---	---
28	0.023	0.047	0.070	---	---	---	---	---	---	---	---	---
29	0.016	0.046	0.081	0.291	---	---	---	---	---	---	---	---
30	0.014	0.165	0.066	0.221	---	---	---	---	---	---	---	---
31	0.017	---	0.064	0.159	---	---	---	---	---	---	---	---
Total	0.655	1.054	2.924	3.859	1.647	---	---	---	---	---	---	---
Mean	0.02	0.04	0.10	0.14	0.10	---	---	---	---	---	---	---
Max	0.038	0.165	0.255	0.291	0.138	---	---	---	---	---	---	---
Min	0.011	0.015	0.038	0.041	0.069	---	---	---	---	---	---	---
Cfsm	0.06	0.12	0.31	0.42	0.28	---	---	---	---	---	---	---
In.	0.07	0.12	0.32	0.42	0.18	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2009^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.04	0.19	0.15	0.12	0.18	0.19	0.16	0.05	0.15	0.07	0.03	0.08
Max	0.10	0.54	0.32	0.20	0.25	0.27	0.25	0.10	0.26	0.17	0.09	0.21
(WY)	(2007)	(2007)	(2007)	(2007)	(2008)	(2008)	(2008)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	0.00	0.00	0.03	0.02	0.10	0.12	0.08	0.02	0.05	0.00	0.00	0.00
(WY)	(2008)	(2008)	(2008)	(2008)	(2009)	(2007)	(2007)	(2007)	(2007)	(2008)	(2008)	(2007)

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

	Calendar Year 2008	Water Year 2009	Water Years 2006 - 2009^a
Annual total	27.976	10.139	
Annual mean	0.09	0.08	0.11
Highest annual mean			0.17 2006
Lowest annual mean			0.08 2009
Highest daily mean	1.2 Feb 22	0.291 Jan 29	2.8 Dec 26, 2006
Lowest daily mean	0.000 Jul 17	0.011 Oct 22	0.000 Aug 5, 2007
Annual seven-day minimum	0.000 Jul 17	0.014 Oct 18	0.000 Aug 28, 2007
Maximum peak flow			b Not Determined
Maximum peak stage		5.29 Nov 15	8.17 Sep 1, 2006
Instantaneous low flow		0.010 Oct 23	b 0.000 Aug 4, 2007
Annual runoff (cfsm)	0.277	0.231	0.330
Annual runoff (inches)	3.06	1.11	4.48
10 percent exceeds	0.285	0.171	0.298
50 percent exceeds	0.027	0.063	0.033
90 percent exceeds	0.000	0.017	0.000

^a See Period of Record.^b See Remarks.