

Water-Data Report 2007

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

Neuse Basin
Contentnea Subbasin

LOCATION.--Lat 35°31'31", long 77°33'46" referenced to North American Datum of 1983, Greene County, NC, Hydrologic Unit 03020203, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.--57 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1999 to September 2001, June 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.50 ft above NGVD of 1929. Satellite telemetry at station.

COOPERATION.--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.

REMARKS.--No estimated daily discharges. Records poor. Maximum discharge for period of record from rating curve extended above 10 ft³/s by logarithmic plotting. No flow occurs on many days during most years. Discharge for period October 2001 to May 2002 not published due to beaver activity affecting the accuracy of the data.

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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	0.02	0.33	0.55	0.57	0.99	0.14	0.07	0.04	0.00	0.01	0.00	0.00
2	0.02	0.26	0.55	0.47	2.1	0.25	0.06	0.02	0.00	0.00	0.00	0.00
3	0.02	0.19	0.46	0.40	1.4	0.18	0.05	0.04	0.32	0.00	0.00	0.00
4	0.02	0.16	0.44	0.37	0.98	0.13	0.06	0.06	0.19	0.00	0.00	0.00
5	0.02	0.14	0.39	0.37	0.79	0.11	0.04	0.06	0.03	0.00	0.00	0.00
6	0.04	0.13	0.36	0.79	0.64	0.10	0.04	0.32	0.01	0.00	0.00	0.00
7	0.05	1.3	0.34	0.65	0.54	0.10	0.04	0.06	0.01	0.00	0.00	0.00
8	0.06	1.6	0.27	0.69	0.45	0.09	0.04	0.05	0.01	0.00	0.00	0.00
9	0.08	0.93	0.25	0.57	0.40	0.08	0.03	0.12	0.01	0.00	0.00	0.00
10	0.05	0.66	0.23	0.43	0.35	0.08	0.03	0.12	0.01	0.00	0.02	0.00
11	0.03	0.50	0.22	0.37	0.31	0.09	0.04	0.07	0.00	0.00	0.00	0.00
12	0.03	4.3	0.20	0.34	0.29	0.08	0.40	0.06	0.00	0.00	0.00	0.00
13	0.02	2.6	0.20	0.32	0.30	0.08	0.03	0.06	0.00	0.00	0.00	0.00
14	0.02	1.6	0.19	0.29	0.61	0.07	0.02	0.04	0.00	0.00	0.00	0.00
15	0.02	1.3	0.27	0.27	0.45	0.06	7.1	0.04	0.00	0.00	0.00	0.00
16	0.02	2.0	0.19	0.25	0.39	1.5	4.3	0.03	0.01	0.00	0.00	0.00
17	0.04	1.8	0.15	0.18	0.34	1.4	1.7	0.04	0.01	0.00	0.00	0.00
18	0.67	1.4	0.12	0.28	0.31	0.85	1.0	0.03	0.00	0.08	0.00	0.00
19	0.24	1.1	0.10	0.38	0.25	0.60	0.71	0.02	0.00	0.00	0.00	0.00
20	0.14	1.0	0.12	0.30	0.25	0.47	0.51	0.02	0.00	0.00	0.00	0.00
21	0.08	1.1	0.10	0.29	0.21	0.36	0.38	0.02	0.00	0.00	0.00	0.00
22	0.09	12	0.17	2.2	0.19	0.31	0.27	0.02	0.00	0.00	0.00	0.00
23	0.08	3.0	0.52	1.3	0.15	0.25	0.18	0.01	0.00	0.00	0.00	0.00
24	0.06	1.8	0.46	0.92	0.13	0.20	0.13	0.01	0.00	0.00	0.00	0.00
25	0.05	1.2	5.6	0.74	0.18	0.18	0.10	0.01	0.00	0.00	0.00	0.00
26	0.04	0.97	3.1	0.58	0.22	0.18	0.10	0.01	0.00	0.00	0.00	0.00
27	0.21	0.82	1.6	0.50	0.17	0.16	0.10	0.00	0.00	0.00	0.00	0.00
28	2.8	0.72	1.1	0.51	0.14	0.14	0.08	0.00	0.00	0.00	0.00	0.00
29	0.77	0.62	0.83	0.46	---	0.10	0.06	0.00	0.43	0.00	0.00	0.00
30	0.50	0.55	0.71	0.39	---	0.07	0.05	0.00	0.05	0.00	0.00	0.00
31	0.40	---	0.61	0.33	---	0.08	---	0.00	---	0.00	0.00	---
Total	6.69	46.08	20.40	16.51	13.53	8.49	17.72	1.38	1.09	0.09	0.02	0.00
Mean	0.22	1.54	0.66	0.53	0.48	0.27	0.59	0.04	0.04	0.00	0.00	0.00
Max	2.8	12	5.6	2.2	2.1	1.5	7.1	0.32	0.43	0.08	0.02	0.00
Min	0.02	0.13	0.10	0.18	0.13	0.06	0.02	0.00	0.00	0.00	0.00	0.00
Cfsm	0.38	2.69	1.15	0.93	0.85	0.48	1.04	0.08	0.06	0.01	0.00	0.00
In.	0.44	3.01	1.33	1.08	0.88	0.55	1.16	0.09	0.07	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.52	0.56	0.53	0.31	0.50	0.63	0.44	0.49	0.23	0.17	0.39	2.09
Max	2.06	1.54	1.28	0.53	1.04	1.49	1.06	2.60	1.13	0.62	2.39	15.4
(WY)	(2000)	(2007)	(2004)	(2007)	(2003)	(2003)	(2003)	(2003)	(2001)	(2003)	(2003)	(1999)
Min	0.02	0.05	0.09	0.13	0.16	0.07	0.10	0.04	0.02	0.00	0.00	0.00
(WY)	(2005)	(2001)	(2001)	(2001)	(2006)	(2006)	(2006)	(2007)	(2004)	(2007)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007 ^a	
Annual total	180.96		132.00			
Annual mean	0.54		0.36		0.58	
Highest annual mean					2.61	1999
Lowest annual mean					0.01	2002
Highest daily mean	34	Sep 1	12	Nov 22	283	Sep 16, 1999
Lowest daily mean	0.00	Jul 17	0.00	May 27	0.00	Jun 10, 1999
Annual seven-day minimum	0.01	Jul 16	0.00	May 27	0.00	Jul 30, 1999
Maximum peak flow			50	Apr 15	^b 500	Sep 16, 1999
Maximum peak stage			2.52	Apr 15	5.18	Sep 16, 1999
Instantaneous low flow			0.00	May 26	^b 0.00	Jun 10, 1999
Annual runoff (cfsm)	0.953		0.634		1.02	
Annual runoff (inches)	11.81		8.61		13.80	
10 percent exceeds	1.1		0.88		0.90	
50 percent exceeds	0.14		0.07		0.12	
90 percent exceeds	0.02		0.00		0.00	

^a See Period of Record.

^b See Remarks.

