

Water-Data Report 2008

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°07'55", long 78°50'00" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, on left bank at culvert on Secondary Road 1680, 1.5 mi southeast of Willardville.

DRAINAGE AREA.--1.14 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1988 to September 1990, October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No flow occurred on many days during the period. Maximum discharge for period of record, from rating curve extended above 70 ft³/s, on basis of computation of flow through culvert with road overflow. Maximum gage height for period of record from floodmarks.

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.07	0.83	0.22	e4.0	e0.50	e0.40	0.13	0.00	0.07
2	0.00	0.00	0.00	0.01	0.74	0.18	1.7	e0.40	e0.20	0.04	0.00	0.04
3	0.00	0.00	0.00	0.00	0.33	0.16	0.82	e0.30	e0.10	0.00	0.00	0.02
4	0.00	0.00	0.00	0.00	0.24	1.3	2.2	e0.20	e0.09	0.00	0.00	0.02
5	0.00	0.00	0.00	0.00	0.20	9.6	5.5	e0.15	e0.07	0.04	0.00	0.01
6	0.00	0.00	0.00	0.00	0.24	0.98	2.5	e0.15	e0.05	0.30	0.00	79
7	0.00	0.00	0.00	0.00	0.37	15	1.3	e0.10	e0.03	0.17	0.00	10
8	0.00	0.00	0.00	0.00	0.34	6.0	0.85	e0.09	e0.01	0.16	0.00	0.41
9	0.00	0.00	0.00	0.00	0.32	1.4	0.68	e0.20	e0.00	0.22	0.00	0.26
10	0.00	0.00	0.00	0.00	0.31	0.70	0.72	e0.15	e0.00	0.27	0.00	0.23
11	0.00	0.00	0.00	0.01	0.26	0.50	0.53	e0.15	e0.00	0.27	0.00	0.21
12	0.00	0.00	0.00	0.00	0.30	0.43	e0.35	e0.40	e0.00	0.18	0.00	0.18
13	0.00	0.00	0.00	0.00	2.9	0.35	e0.35	e0.15	e0.00	0.05	0.00	0.15
14	0.00	0.00	0.00	0.00	0.79	0.32	e0.30	e0.10	e0.00	0.10	0.00	0.15
15	0.00	0.00	0.00	0.00	0.47	0.52	e0.30	e0.09	e0.00	0.06	0.00	0.12
16	0.00	0.00	0.00	0.00	0.33	1.7	e0.25	e0.60	e0.00	0.00	0.00	0.39
17	0.00	0.00	0.00	0.03	0.26	0.66	e0.25	e0.40	e0.00	0.00	0.00	0.28
18	0.00	0.00	0.00	0.03	0.32	0.45	e0.20	e0.50	e0.00	0.00	0.00	0.18
19	0.00	0.00	0.00	0.01	0.30	0.41	e0.20	e0.80	e0.00	0.00	0.00	0.15
20	0.00	0.00	0.00	0.01	0.25	0.41	e0.35	e0.50	e0.00	0.03	0.00	0.14
21	0.00	0.00	0.00	0.00	0.21	0.30	e0.40	e0.50	0.00	0.00	0.00	0.13
22	0.00	0.00	0.00	0.00	0.25	0.36	e0.30	e0.40	0.00	0.05	0.00	0.11
23	0.00	0.00	0.00	0.01	0.26	0.32	e0.25	e0.20	0.00	0.12	0.00	0.10
24	0.00	0.00	0.00	0.00	0.23	e0.30	e0.25	e0.10	0.00	0.01	0.00	0.14
25	0.00	0.00	0.00	0.00	0.23	e0.25	e0.20	e0.10	0.00	0.00	0.00	0.16
26	0.00	0.00	0.16	0.00	0.30	e0.25	e0.15	e0.09	0.00	0.00	0.00	3.2
27	0.02	0.00	0.04	0.00	0.46	e0.20	e0.20	e0.08	0.00	0.00	4.6	2.6
28	0.00	0.00	0.01	0.00	0.28	e0.16	e5.0	e0.20	0.00	0.00	11	0.79
29	0.00	0.00	0.01	0.00	0.22	e0.20	e4.0	e0.20	0.00	0.00	0.20	0.40
30	0.00	0.00	1.2	0.01	---	e0.20	e0.70	e0.10	e0.20	0.00	0.10	0.31
31	0.00	---	0.58	0.00	---	e1.5	---	e0.08	---	0.00	0.10	---
Total	0.02	0.00	2.00	0.19	12.54	45.33	34.80	7.98	1.15	2.20	16.00	99.95
Mean	0.00	0.00	0.06	0.01	0.43	1.46	1.16	0.26	0.04	0.07	0.52	3.33
Max	0.02	0.00	1.2	0.07	2.9	15	5.5	0.80	0.40	0.30	11	79
Min	0.00	0.00	0.00	0.00	0.20	0.16	0.15	0.08	0.00	0.00	0.00	0.01
Cfsm	0.00	0.00	0.06	0.01	0.38	1.28	1.02	0.23	0.03	0.06	0.45	2.92
In.	0.00	0.00	0.07	0.01	0.41	1.48	1.14	0.26	0.04	0.07	0.52	3.26

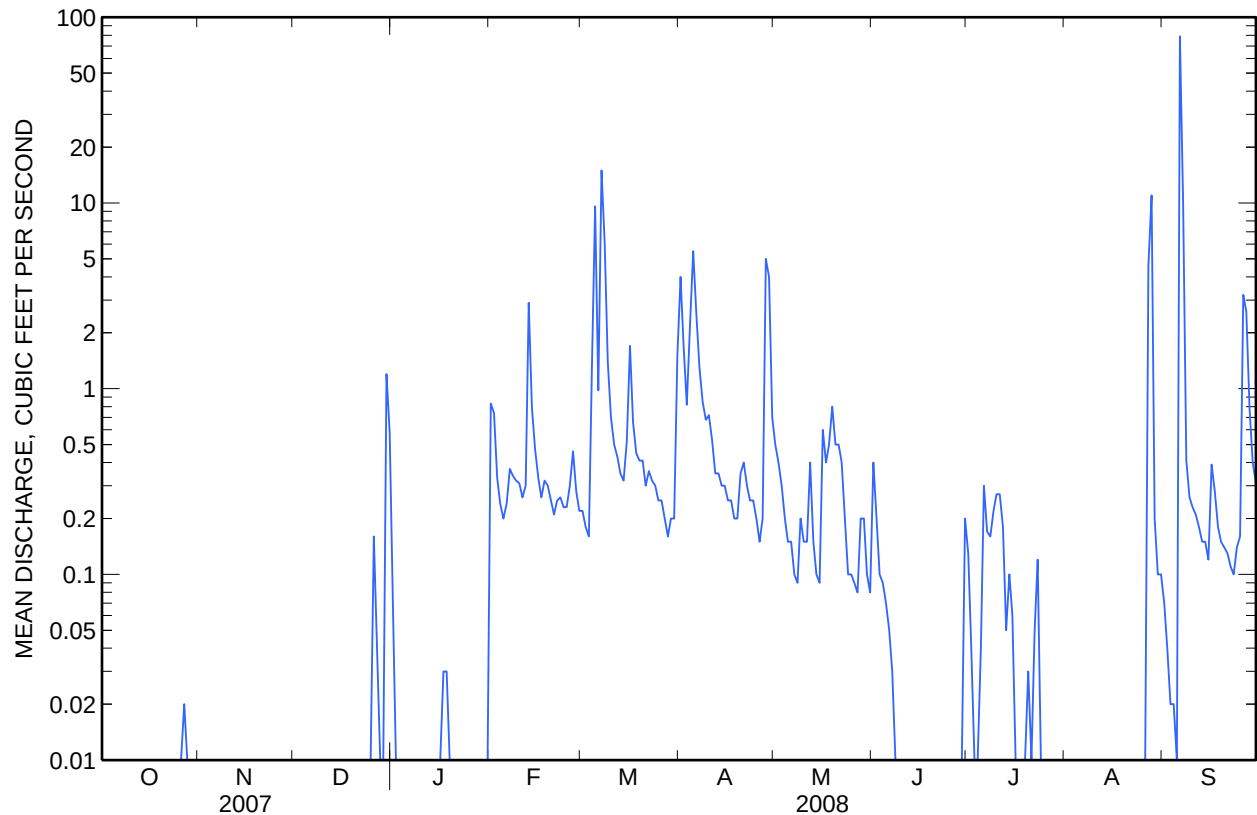
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.49	0.51	0.75	1.34	1.70	2.13	1.46	0.69	0.42	0.24	0.15	1.17
Max	4.01	2.36	3.26	3.17	5.41	8.30	5.04	2.20	4.07	1.26	0.52	8.60
(WY)	(2003)	(2007)	(1990)	(1998)	(1998)	(1998)	(2003)	(1989)	(1995)	(1989)	(2008)	(1996)
Min	0.00	0.00	0.01	0.01	0.27	0.15	0.06	0.01	0.04	0.00	0.00	0.00
(WY)	(2008)	(2008)	(1989)	(2008)	(2002)	(2006)	(1995)	(2002)	(2008)	(1988)	(2007)	(1990)

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1987 - 2008 ^a	
Annual total	195.18		222.16			
Annual mean	0.53		0.61		0.93	
Highest annual mean					2.00	
Lowest annual mean					0.16	
Highest daily mean	44	May 12	79	Sep 6	225	Sep 6, 1996
Lowest daily mean	0.00	Jun 27	0.00	Oct 1	0.00	Jun 22, 1988
Annual seven-day minimum	0.00	Jul 2	0.00	Oct 1	0.00	Jul 2, 1988
Maximum peak flow			357	Sep 6	^b 1,410	Sep 6, 1996
Maximum peak stage			6.49	Sep 6	^b 7.77	Sep 6, 1996
Instantaneous low flow			0.00	Oct 1	^b 0.00	Jun 15, 1988
Annual runoff (cfs)	0.469		0.532		0.819	
Annual runoff (inches)	6.37		7.25		11.13	
10 percent exceeds	0.81		0.62		1.6	
50 percent exceeds	0.02		0.03		0.19	
90 percent exceeds	0.00		0.00		0.00	

^aSee Period of Record.^bSee Remarks.

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin. For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)
Feb 13...	0715	Surface water, regular	5.7	745	10.9	90	6.6	56	6.0
Mar 28...	1045	Surface water, regular	.16	753	9.4	89	6.1	66	12.2
28...	1050	QC - Surface water, replicate	--	--	--	--	--	--	--
May 22...	1445	Surface water, regular	.40	745	9.1	93	7.4	57	15.6
Jun 30...	1015	Surface water, regular	.19	740	8.0	92	7.0	53	21.2
Sep 06...	1015	Surface water, regular	123	741	8.2	96	6.9	31	21.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L as P (00665)	Aluminum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, unfltrd µg/L (01002)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recover -able, µg/L (01034)	Cobalt water, unfltrd recover -able, µg/L (01037)	Copper, water, unfltrd recover -able, µg/L (01042)
Feb 13...	.47	<.020	.070	.07	.002	E.004	.058	535	E.35	<.01	.56	.54	1.8
Mar 28...	E.12	<.020	<.016	--	<.002	E.003	.012	--	--	--	--	--	--
28...	E.12	<.020	<.016	--	<.002	E.003	.012	--	--	--	--	--	--
May 22...	.23	<.020	E.008	E.01	E.001	.006	.023	--	--	--	--	--	--
Jun 30...	.59	<.020	.075	E.07	E.002	<.006	.056	656	E.36	E.01	.75	.50	2.1
Sep 06...	1.0	<.020	<.016	--	.002	E.004	.109	1,620	.72	.02	1.6	2.1	4.1

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, unfltrd recover- able, µg/L (71900)	Molyb- denum, water, unfltrd recover- able, µg/L (01062)	Nickel, water, unfltrd recover- able, µg/L (01067)	Selen- ium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01092)	1-Naph- thol, water, fltrd 0.7u GF µg/L (49295)	2,4-D methyl ester, water, fltrd, µg/L (50470)	2,4-D plus 2,4-D methyl ester µg/L as 2,4-D (66496)	2,4-D, water, fltrd, µg/L (39732)
Feb 13...	722	.68	46.8	E.008	<.1	.56	.11	<.02	2.3	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	1,280	.90	29.1	.010	<.1	.80	.12	<.02	2.6	<.04	<.040	<.02	<.02
Sep 06...	2,400	2.87	142	.017	<.1	1.7	.15	E.02	7.4	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	2,4-DB, water, fltrd 0.7u GF µg/L (38746)	2,6-Di- ethyl- aniline water, fltrd 0.7u GF µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	CEAT, water, fltrd, µg/L (04038)	2-Ethyl -6- methyl- aniline water, fltrd, µg/L (61620)	OIET, water, fltrd, µg/L (50355)	3,4-Di- chloro- aniline water, fltrd, µg/L (61625)	3,5-Di- chloro- aniline water, fltrd, µg/L (61627)	3- Hydroxy carbo- furan, wat flt 0.7u GF µg/L (49308)	4- Chloro- 2methyl phenol, water, fltrd, µg/L (61633)	Aceto- chlor, water, fltrd, µg/L (49260)	Acifluor- fen, water, fltrd 0.7u GF µg/L (49315)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.02	<.002	<.010	E.008	<.08	<.010	<.040	<.006	<.008	<.040	<.005	<.006	<.040
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ala-chlor, water, fltrd, µg/L (46342)	Aldi-carb sulfone water, fltrd 0.7u GF µg/L (49313)	Aldi-carb sulf-oxide, wat flt 0.7u GF µg/L (49314)	Aldi-carb, water, fltrd µg/L (49312)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF µg/L (82686)	Bendio-carb, water, fltrd, µg/L (50299)	Ben-flur-alin, water, fltrd 0.7u GF µg/L (82673)	Benomyl water, fltrd, µg/L (50300)	Bensul-furon-methyl, water, fltrd, µg/L (61693)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.006	<.08	<.060	<.12	<.006	<.002	.008	<.04	<.120	<.04	<.004	<.040	<.06
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ben-tazon, water, fltrd 0.7u GF µg/L (38711)	Broma-cil, water, fltrd, µg/L (04029)	Brom-oxynil, water, fltrd 0.7u GF µg/L (49311)	Butyl-ate, water, fltrd, µg/L (04028)	Caf-feine, water, fltrd, µg/L (50305)	Car-baryl, water, fltrd 0.7u GF µg/L (49310)	Carbo-furan, water, fltrd 0.7u GF µg/L (49309)	Chlor-amben-methyl ester, water, fltrd, µg/L (61188)	Chlori-muron-ethyl, water, fltrd, µg/L (50306)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7u GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Clopyr-alid, water, fltrd 0.7u GF µg/L (49305)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.04	<.02	<.12	<.002	<.060	<.04	<.020	<.10	<.080	<.005	<.010	<.006	<.06
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Cyana- zine, water, fltrd, µg/L (04041)	Cyclo- ate, water, fltrd, µg/L (04031)	Cyflu- thrin, water, fltrd, µg/L (61585)	lambda- Cyhalo- thrin, water, fltrd, µg/L (61595)	Cyper- methrin, water, fltrd, µg/L (61586)	Dacthal mono- acid, water, fltrd 0.7u GF µg/L (49304)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Dicamba water, fltrd 0.7u GF µg/L (38442)	Di- chlor- prop, water, fltrd 0.7u GF µg/L (49302)	Dicro- tophos, water, fltrd, µg/L (38454)	Diel- drin, water, fltrd, µg/L (39381)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.020	<.02	<.016	<.004	<.014	<.02	<.003	<.012	<.005	<.04	<.02	<.08	<.009
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Dimeth- oate, water, fltrd 0.7u GF µg/L (82662)	Dinoseb water, fltrd 0.7u GF µg/L (49301)	Diphen- amid, water, fltrd, µg/L (04033)	Disulf- oton sulfone water, fltrd, µg/L (61640)	Disul- foton, water, fltrd 0.7u GF µg/L (82677)	Diuron, water, fltrd 0.7u GF µg/L (49300)	Endo- sulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF µg/L (82663)	Ethion monoxon water, fltrd, µg/L (61644)	Etho- prop, water, fltrd 0.7u GF µg/L (82672)	Fenami- phos sulfone water, fltrd, µg/L (61645)	Fenami- phos sulf- oxide, water, fltrd, µg/L (61646)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.006	<.04	<.04	<.01	<.04	<.04	<.022	<.002	<.009	<.02	<.012	<.053	<.20
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Fenami- phos, water, flt'd, µg/L (61591)	Fenuron water, flt'd 0.7u GF µg/L (49297)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Fipro- nil sulfide water, flt'd, µg/L (62167)	Fipro- nil sulfone water, flt'd, µg/L (62168)	Fipro- nil, water, flt'd, µg/L (62166)	Flumet- sulam, water, flt'd, µg/L (61694)	Fluo- meturon water, flt'd 0.7u GF µg/L (38811)	Fonofos water, flt'd, µg/L (04095)	Hexa- zinone, water, flt'd, µg/L (04025)	Imaza- quin, water, flt'd, µg/L (50356)	Imaze- thapyr, water, flt'd, µg/L (50407)	Imida- cloprid water, flt'd, µg/L (61695)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.03	<.04	<.029	<.013	<.024	<.020	<.06	<.04	<.010	<.008	<.04	<.04	<.060
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ipro- dione, water, flt'd, µg/L (61593)	Isofen- phos, water, flt'd, µg/L (61594)	Lindane water, flt'd, µg/L (39341)	Linuron water, flt'd 0.7u GF µg/L (38478)	Mala- oxon, water, flt'd, µg/L (61652)	Mala- thion, water, flt'd, µg/L (39532)	MCPA, water, flt'd 0.7u GF µg/L (38482)	MCPB, water, flt'd 0.7u GF µg/L (38487)	Meta- laxyl, water, flt'd, µg/L (50359)	Methid- athion, water, flt'd, µg/L (61598)	Methio- carb, water, flt'd 0.7u GF µg/L (38501)	Meth- omyl, water, flt'd 0.7u GF µg/L (49296)	Methyl para- oxon, water, flt'd, µg/L (61664)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.01	<.006	<.006	<.02	<.020	<.016	<.06	<.06	<.02	<.004	<.040	<.120	<.01
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Methyl para- thion, water, fltrd 0.7u GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Metsul- furon- methyl, water, fltrd, µg/L (61697)	Moli- nate, water, fltrd 0.7u GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)	N-(4- Chloro- phenyl)- N'- methyl- urea, µg/L (61692)	Naprop- amide, water, fltrd 0.7u GF µg/L (82684)	Neburon water, fltrd 0.7u GF µg/L (49294)	Nico- sul- furon, water, fltrd, µg/L (50364)	Norflur azon, water, fltrd 0.7u GF µg/L (49293)	Ory- zalin, water, fltrd 0.7u GF µg/L (49292)	Oxamyl, water, fltrd 0.7u GF µg/L (38866)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.008	<.010	<.012	<.14	<.002	<.010	<.12	<.018	<.02	<.10	<.02	<.04	<.12
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Oxy- fluor- fen, water, fltrd, µg/L (61600)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7u GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Pic- loram, water, fltrd 0.7u GF µg/L (49291)	Prome- ton, water, fltrd, µg/L (04037)	Prome- tryn, water, fltrd, µg/L (04036)	Propy- zamide, water, fltrd 0.7u GF µg/L (82676)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.006	<.003	<.010	<.004	<.012	<.03	<.040	<.05	<.008	<.12	<.01	<.006	<.004
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7u GF µg/L (82679)	Propar- gite, water, fltrd 0.7u GF µg/L (82685)	Propham water, fltrd 0.7u GF µg/L (49236)	Propi- cona- zole, water, fltrd, µg/L (50471)	Pro- poxur, water, fltrd 0.7u GF µg/L (38538)	Sima- zine, water, fltrd, µg/L (04035)	Sulfo- met- ruron- methyl, water, fltrd, µg/L (50337)	Tebu- thiuron water, fltrd 0.7u GF µg/L (82670)	Teflu- thrin, water, fltrd, µg/L (61606)	Terba- cil, water, fltrd, µg/L (04032)	Ter- bufos oxon sulfone water, fltrd, µg/L (61674)	Terbu- fos, water, fltrd 0.7u GF µg/L (82675)
Feb 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 30...	<.006	<.006	<.04	<.040	<.04	<.040	<.006	<.060	<.02	<.003	<.040	<.04	<.02
Sep 06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 14 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ter- buthyl- azine, water, fltrd, µg/L (04022)	Thio- bencarb water, fltrd 0.7u GF µg/L (82681)	trans- Propi- cona- zole, water, fltrd, µg/L (79847)	Tri- allate, water, fltrd 0.7u GF µg/L (82678)	Tribu- phos, water, fltrd, µg/L (61610)	Tri- clopyr, water, fltrd 0.7u GF µg/L (49235)	Tri- flur- alin, water, fltrd 0.7u GF µg/L (82661)	Di- chlor- vos, water, fltrd, µg/L (38775)	Sus- pended sediment concentration mg/L (80154)	Sus- pended sediment discharge, tons/d (80155)	Data base number	Medium code
Feb 13...	--	--	--	--	--	--	--	--	45	.69	01	WS
Mar 28...	--	--	--	--	--	--	--	--	5	.00	01	WS
28...	--	--	--	--	--	--	--	--	--	--	04	WSQ
May 22...	--	--	--	--	--	--	--	--	12	.01	01	WS
Jun 30...	<.01	<.010	<.02	<.006	<.035	<.08	<.006	<.01	49	.03	01	WS
Sep 06...	--	--	--	--	--	--	--	--	182	60	01	WS