

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 2002 to November 2003.

INSTRUMENTAION.--Logging pressure transducer with water temperature probe.

REMARKS.--Station operated as part of a six county regional surface-water quality assessment and the NAWQA Urban Land Use Gradient study.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 27.6°C, Aug. 30, 2003; minimum recorded, 0.0°C, Jan. 19, 23-26, 28, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT 16...	0915	9	13	--	742	8.9	90	7.0	128	14.9	--	--	--
NOV 01...	0830	9	1.4	45	758	9.1	80	6.8	115	9.2	33	7.96	3.20
DEC 16...	1330	9	12	50	747	11.3	95	6.9	90	7.2	28	6.59	2.71
FEB 20...	1145	9	17	50	760	12.0	98	6.9	79	6.7	23	5.66	2.27
25...	0945	9	13	--	758	11.5	96	7.1	84	7.4	--	--	--
MAR 20...	0900	9	555	260	750	10.7	94	6.1	42	9.3	14	3.21	1.35
APR 14...	1315	9	15	88	761	10.2	100	6.4	65	14.3	21	4.93	2.01
16...	1100	9	10	--	756	8.5	85	6.8	96	15.1	--	--	--
MAY 15...	1600	D	5.7	--	--	8.5	--	7.4	95	17.2	--	--	--
JUN 18...	1200	9	5.7	--	--	--	--	7.8	100	20.8	--	--	--
30...	1045	9	2.3	12	768	7.2	81	6.7	110	21.7	43	11.3	3.54
JUL 08...	1015	9	3.9	--	--	--	--	--	--	--	--	--	--
15...	1200	9	3.3	--	752	7.5	87	7.0	100	22.2	--	--	--
AUG 21...	1215	9	1.2	40	757	7.2	84	7.0	124	22.6	46	11.9	3.85
28...	1300	9	0.73	--	760	6.7	81	5.7	120	24.6	--	--	--
Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicarbonate, wat unfltrd, titr., mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)
OCT 16...	--	--	--	--	7.82	--	--	12.2	--	--	--	0.95	--
NOV 01...	3.67	5.60	--	--	8.23	<0.17	12.2	10.5	70	0.12	91	0.50	--
DEC 16...	2.53	4.94	--	--	6.08	<0.17	10.6	8.3	--	--	87	0.37	--
FEB 20...	1.56	4.76	18	22	5.74	0.03	8.6	7.0	49	0.08	59	0.34	--
25...	--	--	--	--	5.44	--	--	7.1	--	--	--	0.30	--
MAR 20...	2.04	1.92	8	10	2.81	0.05	4.4	4.2	27	0.07	51	1.8	0.22
APR 14...	1.10	3.63	18	22	4.77	0.06	10.6	5.1	45	0.07	54	0.30	--
16...	--	--	--	--	6.05	--	--	4.9	--	--	--	2.0	0.93
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	1.95	5.91	39	47	6.61	<0.2	13.2	2.9	71	0.10	73	0.66	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	6.17	--	--	2.8	--	--	--	0.29	--
AUG 21...	2.45	5.55	42	51	7.09	<0.2	15.2	2.8	77	0.10	76	0.29	--
28...	--	--	--	--	6.70	--	--	2.8	--	--	--	0.28	--

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, unfltrd mg/L (00605)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)
Date	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Biomass periphyton, ashfree drymass g/m2 (49954)	Periphyton biomass ash weight, g/m2 (00572)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)	Pheophytin a, periphyton, mg/m2 (62359)	E coli, modif. m-TEC, water, col/100 mL (90902)	Chlorophyll a periphyton, chromo-fluoro, mg/m2 (70957)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)
OCT 16...	<0.04	5.67	1.28	1.31	0.102	0.031	--	0.576	0.19	0.20	0.32	2.3	1.6
NOV 01...	E.009	4.04	0.91	0.92	0.013	0.004	--	0.169	0.055	--	--	1.4	--
DEC 16...	E.011	3.67	0.83	0.83	0.010	0.003	--	0.101	0.033	<0.02	0.05	1.2	0.2
FEB 20...	<0.015	2.13	0.48	0.48	0.010	0.003	--	0.043	0.014	--	E.04	0.83	--
FEB 25...	<0.04	--	--	0.56	--	<0.008	--	0.067	0.02	0.05	0.066	0.86	0.4
MAR 20...	0.170	2.29	0.52	0.53	0.033	0.010	1.6	0.178	0.058	--	0.43	2.3	--
APR 14...	E.014	2.35	0.53	0.535	0.010	0.003	--	0.064	0.021	--	0.049	0.84	--
APR 16...	0.72	2.25	0.51	0.56	0.184	0.056	1.3	0.067	0.02	0.60	0.20	2.6	3.5
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 30...	E.012	--	--	0.473	--	E.002	--	0.120	0.039	--	0.094	1.1	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	<0.04	--	--	0.41	--	<0.008	--	0.163	0.05	0.08	0.104	0.70	0.9
AUG 21...	<0.015	3.17	0.72	0.722	0.016	0.005	--	0.067	0.022	--	0.091	1.0	--
AUG 28...	<0.04	--	--	0.47	--	<0.008	--	0.113	0.04	0.02	0.088	0.74	0.2

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Cobalt water, unfltrd recover- able, ug/L (01037)	Copper, water, unfltrd recover- able, ug/L (01042)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mercury water, unfltrd recover- able, ug/L (71900)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover- able, ug/L (01077)	Zinc, water, unfltrd recover- able, ug/L (01092)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 01...	<0.2	<0.8	<3.4	1.4	490	<1	27.4	<0.02	<2	<2.0	<3	<0.3	<25
DEC 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	<0.2	2.3	E3.1	6.2	3,280	5	421	0.03	<2	E1.9	<3	<0.3	<25
APR 14...	<0.2	<0.8	<3.4	1.6	510	<1	28.8	<0.02	<2	<2.0	<3	<0.3	<25
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
Date	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Chloro -2,6-' diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)
OCT 16...	<0.09	<0.006	<0.1	<0.005	E.010	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	<0.09	<0.006	<0.1	<0.005	E.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<0.09	<0.006	<0.1	<0.005	E.008	<0.004	<0.004	<0.006	<0.006	<0.004	E.003	<0.02	<0.050
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<0.09	<0.006	<0.1	<0.005	E.008	<0.004	<0.004	<0.006	<0.006	<0.004	E.004	<0.02	<0.050
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.09	<0.006	<0.1	<0.005	E.029	<0.004	<0.004	<0.006	<0.006	<0.004	0.143	<0.02	<0.050
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<0.09	<0.006	<0.1	<0.005	E.015	<0.004	<0.004	<0.006	<0.006	<0.004	0.020	<0.02	<0.050

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ben-flur- alin, water, fltrd 0.7u GF (82673)	Car- baryl, water, fltrd 0.7u GF (82680)	Chlor- pyrifos oxon, water, fltrd, ug/L (61636)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF (82687)	Cyflu- thrin, water, fltrd, ug/L (61585)	Cyper- methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diaz- inon oxon, water, fltrd, ug/L (61638)	Diazi- non, water, fltrd, ug/L (39572)	Dicro- tophos, water fltrd, ug/L (38454)	Diel- drin, water, fltrd, ug/L (39381)
OCT 16...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	--	<0.005	<0.08	<0.005
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	<0.01	<0.005	<0.08	<0.005
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009	<0.003	<0.004	<0.01	<0.005	<0.08	<0.005

Date	Dimeth- oate, water, fltrd 0.7u GF (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)
OCT 16...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	<0.006	<0.007	<0.002	<0.003	<0.013
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009	<0.005	E.005	E.006	<0.002	<0.003	<0.013

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ipro- dione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Malax- oxon, water, fltrd, ug/L (61652)	Malax- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)
OCT 16...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	E.003	<0.006	<0.008	<0.022	<0.10
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	0.020	<0.006	<0.008	<0.022	<0.10
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03	<0.006	E.004	<0.006	<0.008	<0.022	<0.10

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)
OCT 16...	<0.011	<0.06	<0.008	<0.01	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	<0.011	<0.06	<0.008	<0.01	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	<0.011	<0.06	<0.008	M	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<0.011	<0.06	<0.008	<0.01	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.011	<0.06	<0.008	E.01	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<0.011	<0.06	<0.008	M	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
OCT			
16...	98	62	2.2
NOV			
01...	--	3	0.01
DEC			
16...	87	5	0.16
FEB			
20...	--	11	0.49
25...	81	10	0.35
MAR			
20...	--	335	503
APR			
14...	--	10	0.40
16...	93	12	0.32
MAY			
15...	--	--	--
JUN			
18...	--	--	--
30...	--	7	0.05
JUL			
08...	--	--	--
15...	94	5	0.04
AUG			
21...	--	6	0.02
28...	93	7	0.01

Remark codes used in this table:

< -- Less than

E -- Estimated value

M-- Presence verified, not quantified

Medium codes used in this table:

9 -- Surface water

D -- Plant tissue

CAPE FEAR RIVER BASIN

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	20.4	19.5	19.9
2	---	---	---	---	---	---	24.3	23.2	23.7	20.2	19.7	19.9
3	---	---	---	---	---	---	23.8	22.7	23.3	21.3	19.4	20.3
4	---	---	---	---	---	---	23.6	22.3	22.9	22.5	20.2	21.2
5	---	---	---	---	---	---	23.6	22.2	22.9	22.2	20.7	21.3
6	---	---	---	---	---	---	23.1	22.2	22.7	21.1	19.6	20.3
7	---	---	---	---	---	---	22.2	20.2	21.1	20.5	19.5	19.9
8	---	---	---	---	---	---	20.3	19.2	19.8	20.4	19.0	19.6
9	---	---	---	---	---	---	20.0	18.6	19.3	20.3	19.3	19.7
10	---	---	---	---	---	---	20.2	18.4	19.3	21.3	19.5	20.1
11	---	---	---	---	---	---	21.2	18.7	19.8	21.4	19.7	20.4
12	---	---	---	---	---	---	22.1	19.5	20.7	20.2	18.8	19.4
13	---	---	---	---	---	---	22.5	20.4	21.5	19.2	17.9	18.7
14	---	---	---	---	---	---	22.6	20.9	21.9	19.6	18.7	19.1
15	---	---	---	---	---	---	23.2	21.8	22.4	20.5	19.4	19.9
16	---	---	---	---	---	---	23.2	22.0	22.5	21.1	20.0	20.4
17	---	---	---	---	---	---	24.0	22.2	23.0	21.2	20.3	20.7
18	---	---	---	---	---	---	23.8	22.6	23.2	21.1	20.6	20.8
19	---	---	---	---	---	---	24.1	22.6	23.2	21.4	20.7	21.0
20	---	---	---	---	---	---	23.8	22.5	23.2	21.4	20.4	20.9
21	---	---	---	---	---	---	23.9	22.6	23.2	21.1	20.2	20.8
22	---	---	---	---	---	---	24.4	23.1	23.8	21.4	20.3	20.9
23	---	---	---	---	---	---	24.5	23.1	23.8	21.0	20.3	20.7
24	---	---	---	---	---	---	24.5	23.4	23.9	20.3	19.4	19.8
25	---	---	---	---	---	---	24.1	23.0	23.6	19.4	19.0	19.2
26	---	---	---	---	---	---	23.4	22.3	22.8	19.3	18.9	19.1
27	---	---	---	---	---	---	22.3	21.3	21.8	21.7	19.3	20.5
28	---	---	---	---	---	---	21.3	20.6	20.9	21.2	20.3	20.6
29	---	---	---	---	---	---	20.6	20.2	20.4	20.3	19.3	19.8
30	---	---	---	---	---	---	20.2	20.0	20.1	19.6	18.4	19.1
31	---	---	---	---	---	---	20.0	19.6	19.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	22.5	17.9	20.1

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.1	18.8	19.4	10.7	8.9	9.8	7.2	5.0	5.6	11.3	8.4	10
2	20.5	19.0	19.8	9.8	8.2	9.0	5.0	2.9	3.8	10.0	8.4	9.1
3	21.1	19.7	20.3	9.7	8.2	8.8	5.7	4.3	5.0	9.4	8.1	9.1
4	21.8	19.9	20.7	11.0	9.3	10	5.4	1.0	3.3	8.1	5.4	6.7
5	22.0	20.5	21.2	10.8	10.6	10.7	4.0	0.9	2.3	6.0	4.0	5.0
6	21.3	19.6	20.1	12.0	10.8	11.3	4.8	4.0	4.4	6.0	4.6	5.2
7	20.3	19.0	19.6	11.1	9.4	10.1	4.5	2.8	3.9	5.2	2.7	3.7
8	19.2	17.6	18.2	10.2	7.8	9.0	5.1	3.1	4.2	5.9	3.2	4.4
9	17.8	17.0	17.3	11.3	8.7	9.8	5.6	4.6	5.1	8.1	4.9	6.3
10	17.6	16.7	17.2	13.7	10.9	12.0	5.2	4.3	4.8	8.0	6.3	7.2
11	19.5	17.6	18.6	15.4	13.6	14.7	6.1	4.9	5.5	6.3	3.9	4.8
12	20.2	19.2	19.6	15.4	13.9	15.0	7.8	6.0	6.8	4.0	2.0	2.9
13	19.7	19.0	19.4	13.9	11.7	13.1	7.0	6.5	6.7	3.3	1.2	2.2
14	19.4	16.0	17.5	11.7	9.6	10.7	8.2	6.9	7.5	4.1	1.5	2.7
15	16.0	14.3	14.8	11.5	9.3	10.4	7.2	5.5	6.5	4.0	2.2	3.1
16	15.8	14.3	15.1	12.3	11.3	11.8	7.6	5.2	6.4	2.8	1.2	1.9
17	15.4	13.8	14.6	12.3	11.1	11.9	6.6	5.0	5.8	3.1	1.4	2.2
18	14.2	11.8	12.9	11.1	9.2	9.9	6.9	5.1	5.9	1.8	0.2	0.8
19	13.7	11.2	12.3	9.5	7.3	8.6	8.0	6.6	7.1	0.8	0.0	0.3
20	14.8	12.8	13.6	9.9	7.7	8.8	11.2	8.0	9.9	2.9	0.1	1.1
21	14.9	14.0	14.6	10.6	8.9	9.6	9.2	6.5	7.6	2.6	2.0	2.3
22	14.0	13.0	13.5	10.3	8.8	9.7	7.9	5.1	6.4	2.9	1.0	1.9
23	13.9	12.0	12.9	8.8	6.8	7.6	7.3	5.3	6.3	2.4	0.0	1.0
24	13.6	12.8	13.1	8.6	5.9	7.2	7.0	6.0	6.5	0.5	0.0	0.2
25	13.3	12.9	13.1	9.2	6.8	7.9	7.4	6.0	6.9	0.7	0.0	0.3
26	14.3	12.9	13.4	8.8	7.1	8.0	6.0	4.8	5.4	0.9	0.0	0.4
27	14.3	13.6	13.9	8.3	7.2	7.7	5.1	3.4	4.3	1.0	0.1	0.5
28	14.3	14.1	14.1	7.2	4.9	5.7	5.0	2.8	3.9	0.7	0.0	0.3
29	14.1	12.5	13.1	5.3	3.2	4.2	6.0	3.4	4.6	3.1	0.6	1.6
30	12.5	11.3	11.8	7.5	4.8	6.0	6.5	4.1	5.2	3.5	3.1	3.4
31	11.4	10.5	11.0	---	---	---	8.4	5.4	6.7	4.1	3.1	3.6
MONTH	22.0	10.5	16.0	15.4	3.2	9.6	11.2	0.9	5.6	11.3	0.0	3.4

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	4.1	4.9	7.9	6.1	6.9	13.4	8.1	10.7	20.3	18.0	19.0
2	6.2	3.8	4.9	10.3	7.5	8.7	16.6	10.9	13.7	21.1	17.4	19.1
3	7.6	4.2	5.8	9.9	6.8	8.5	18.1	12.8	15.5	19.7	18.1	18.9
4	10.7	7.5	8.8	9.8	6.1	8.1	17.8	14.1	16.2	18.1	15.6	16.6
5	8.3	5.7	6.8	12.5	9.3	10.7	17.2	15.0	16.0	15.6	14.0	14.3
6	6.3	4.1	4.9	12.2	11.1	11.7	17.0	13.5	15.2	16.4	14.0	15.1
7	6.2	3.8	5.0	11.4	7.1	8.9	15.4	10.5	12.0	19.2	16.0	17.3
8	6.0	4.1	5.0	10.5	5.4	8.0	10.5	9.9	10.2	21.7	17.8	19.4
9	6.2	3.6	4.7	13.6	8.8	11.0	10.2	8.9	9.6	22.3	18.9	20.4
10	6.0	4.8	5.2	12.1	8.8	10.5	9.8	8.6	9.0	22.9	19.8	21.3
11	6.6	3.4	4.9	9.5	7.0	8.3	10.4	9.1	9.6	22.0	20.3	21.1
12	7.2	4.1	5.4	12.3	6.4	9.2	14.5	9.1	11.5	20.8	18.2	19.5
13	6.1	3.0	4.5	14.1	9.4	11.6	15.3	10.8	13.2	19.4	16.1	17.8
14	5.6	3.8	4.7	13.7	11.1	12.4	16.5	11.5	14.1	18.8	14.7	16.8
15	6.7	5.5	6.1	11.1	9.2	9.8	17.8	13.4	15.7	17.5	16.3	17.0
16	6.0	0.8	3.7	11.2	9.5	10.3	18.6	14.7	16.8	18.9	16.5	17.5
17	2.0	0.2	1.1	13.4	11.1	12.1	18.4	15.1	16.9	18.4	16.4	17.3
18	5.8	2.0	3.6	13.9	12.3	13.0	16.7	12.7	14.0	16.4	14.7	15.4
19	6.3	3.5	4.9	13.3	11.1	12.2	12.9	12.1	12.5	15.1	14.2	14.5
20	8.2	5.8	6.8	11.1	9.0	9.7	14.8	12.2	13.3	17.7	13.9	15.6
21	7.5	6.3	7.0	12.7	9.6	10.9	15.1	13.5	14.3	17.0	15.6	16.4
22	8.5	7.4	7.8	14.0	10.3	12.2	17.1	14.8	15.7	16.8	15.9	16.1
23	9.9	8.0	9.0	14.6	10.2	12.6	16.2	12.7	14.5	16.6	15.8	16.1
24	9.6	5.9	7.9	15.8	11.3	13.6	15.3	11.7	13.7	17.6	16.1	16.8
25	9.5	7.3	8.5	16.3	10.8	13.7	14.6	13.9	14.2	18.4	16.8	17.5
26	8.4	5.6	6.8	17.5	12.6	15.0	15.9	14.4	15.0	19.2	17.7	18.4
27	5.6	4.3	4.8	16.8	13.3	15.1	17.0	14.4	15.7	19.1	17.2	18.2
28	6.4	4.8	5.6	17.3	12.7	15.1	18.1	14.4	16.3	18.2	15.5	16.9
29	---	---	---	19.1	15.8	17.2	19.1	15.9	17.4	17.9	16.6	17.2
30	---	---	---	17.7	10.0	13.1	20.3	16.9	18.4	19.0	15.8	17.3
31	---	---	---	11.7	8.3	10	---	---	---	18.6	16.9	17.7
MONTH	10.7	0.2	5.7	19.1	5.4	11.3	20.3	8.1	14.0	22.9	13.9	17.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.9	17.9	22.4	21.5	22.0	24.4	22.5	23.1	25.8	23.2	24.3
2	18.5	15.3	16.9	21.9	20.1	21.0	23.4	22.8	23.0	26.1	23.2	24.6
3	18.1	16.2	17.3	21.2	20.4	20.8	24.1	22.3	23.1	26.1	23.2	24.6
4	19.9	17.8	18.7	22.9	19.9	21.3	24.2	22.8	23.4	25.2	23.3	24.3
5	21.0	18.7	19.6	24.5	21.8	22.9	23.8	21.7	22.8	23.9	21.9	22.8
6	20.5	17.1	18.8	25.1	22.4	23.6	24.6	21.5	22.8	22.5	20.1	20.9
7	20.4	19.4	19.9	24.7	22.6	23.6	24.6	22.9	23.6	22.1	19.3	20.4
8	21.2	19.6	20.3	25.9	22.5	24.0	23.7	22.4	23.1	21.4	20.0	20.6
9	22.5	20.2	21.3	26.4	23.2	24.5	24.7	22.9	23.7	21.6	19.5	20.4
10	22.6	19.9	21.2	25.4	22.8	24.0	23.7	22.6	23.2	20.9	19.2	19.9
11	22.8	19.6	21.1	25.4	22.9	23.9	24.5	22.3	23.3	21.1	17.7	19.0
12	23.1	20.9	21.9	25.1	22.1	23.4	25.2	22.6	23.8	19.9	18.4	19.1
13	23.3	21.3	22.1	23.7	21.9	22.8	25.2	23.3	24.2	20.5	19.1	19.7
14	24.0	21.4	22.6	23.1	21.5	22.3	25.7	23.6	24.5	22.6	20.0	21.0
15	23.7	21.8	22.6	24.4	21.6	22.9	26.0	23.2	24.4	23.3	20.4	21.6
16	22.4	21.3	21.8	25.5	22.2	23.6	25.4	23.7	24.4	22.6	20.5	21.4
17	21.3	20.0	20.4	25.4	22.8	23.9	25.9	23.6	24.5	20.8	18.0	19.3
18	21.3	19.7	20.4	25.5	22.5	23.9	25.2	22.9	24.0	19.8	18.5	18.8
19	21.9	20.6	21.2	24.1	22.3	23.2	24.7	22.6	23.5	21.5	18.5	19.6
20	21.7	20.0	21.0	25.1	21.5	23.1	24.5	22.8	23.6	22.1	18.5	20.1
21	21.2	18.6	19.7	25.5	22.1	23.7	25.8	22.5	24.0	22.3	19.1	20.6
22	20.5	17.6	19.1	25.7	23.0	24.0	24.6	23.3	24.0	21.9	20.6	21.3
23	22.0	18.4	20.0	23.3	22.4	22.9	25.2	22.5	23.7	22.2	21.2	21.7
24	22.7	18.7	20.6	24.0	21.8	22.6	25.0	23.0	23.9	21.4	19.0	20.2
25	23.6	19.7	21.5	24.2	20.8	22.4	25.0	21.7	23.3	21.3	17.9	19.5
26	24.2	20.4	22.2	24.7	21.5	22.9	26.1	22.6	24.1	21.7	18.3	19.8
27	24.3	21.5	22.8	25.5	22.1	23.6	27.0	23.3	24.9	21.9	18.3	20.0
28	23.2	21.5	22.1	26.2	23.0	24.4	27.2	24.1	25.6	21.1	19.1	20.0
29	23.8	20.3	21.8	25.6	23.2	24.3	27.4	24.3	25.7	19.1	16.2	17.3
30	23.8	21.3	22.5	24.3	22.5	23.0	27.6	24.4	25.8	17.1	13.8	15.4
31	---	---	---	23.4	21.9	22.5	26.0	24.0	24.7	---	---	---
MONTH	24.3	15.3	20.6	26.4	19.9	23.1	27.6	21.5	23.9	26.1	13.8	20.6

