



Water-Data Report 2006

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC

Roanoke Basin
Lower Roanoke Subbasin

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 2006.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to September 2006.

pH: June to September 2006.

WATER TEMPERATURE: June to September 2006.

DISSOLVED OXYGEN: June to September 2006.

DISSOLVED OXYGEN, PERCENT SATURATION: June to September 2006.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry June 2006 to September 2006.

REMARKS.--Station operated in cooperation with the U.S. Army Corps of Engineers. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm of Hg.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 187 microsiemens, September 1; minimum recorded, 34 microsiemens, September 4.

pH: Maximum recorded, 7.1 standard units, August 30; minimum recorded, 5.0 standard units, September 3, 4, 5, 6.

WATER TEMPERATURE: Maximum recorded, 33.7°, July 19; minimum recorded, 22.5°, September 12, 13, 30.

DISSOLVED OXYGEN: Maximum recorded, 9.1 mg/L, August 28; minimum recorded, 0.0 mg/L, July 13, 14, 18, 19.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 121%, August 28; minimum recorded, 0%, July 13, 14, 18, 19.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Time	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
Aug						
02...	1330	2.9	5.9	46	27.1	2.0
16...	1545	1.4	6.2	67	27.3	2.2
Sep						
07...	1520	1.6	5.4	48	23.4	2.7
21...	0930	1.1	6.1	64	23.0	1.6

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	57	54	55	43	41	42	187	43	110
2	---	---	---	56	53	54	44	42	43	44	38	39
3	---	---	---	56	53	55	46	43	44	39	35	37
4	---	---	---	66	54	55	53	44	45	35	34	35
5	---	---	---	77	54	57	49	46	46	39	35	37
6	---	---	---	78	60	65	81	46	52	41	39	40
7	---	---	---	62	59	60	83	57	66	45	41	42
8	---	---	---	60	58	59	96	61	75	46	43	44
9	---	---	---	61	58	59	83	69	75	46	44	45
10	---	---	---	60	58	59	99	74	83	55	45	47
11	---	---	---	73	58	59	94	69	79	52	46	47
12	---	---	---	81	58	61	84	63	70	52	47	48
13	---	---	---	84	60	63	70	62	65	85	49	61
14	---	---	---	87	63	66	95	61	71	101	85	97
15	---	---	---	67	62	63	98	65	81	98	65	87
16	---	---	---	72	63	64	100	77	85	71	57	62
17	---	---	---	68	65	66	78	69	74	60	55	57
18	---	---	---	70	66	68	102	71	82	96	56	67
19	---	---	---	68	64	66	96	75	82	87	68	74
20	---	---	---	66	63	64	83	67	77	90	58	68
21	---	---	---	69	63	64	100	74	85	61	56	58
22	---	---	---	92	64	71	91	78	84	74	57	60
23	---	---	---	90	72	81	114	78	93	75	58	66
24	---	---	---	79	67	71	102	82	90	81	60	66
25	---	---	---	70	62	66	91	81	87	83	63	69
26	---	---	---	66	59	61	111	81	92	65	59	61
27	---	---	---	61	57	59	114	93	104	64	57	60
28	---	---	---	62	57	60	108	95	101	79	58	63
29	344	57	74	62	44	54	112	96	99	73	61	65
30	67	55	59	50	44	46	120	101	109	92	63	68
31	---	---	---	46	42	44	128	100	109	---	---	---
Month	---	---	---	92	42	61	128	41	77	187	34	59

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	5.9	5.7	5.8	5.6	5.5	5.5	6.7	5.5	6.5
2	---	---	---	6.0	5.7	5.8	5.7	5.4	5.6	5.5	5.2	5.2
3	---	---	---	6.0	5.8	5.8	6.0	5.5	5.6	5.2	5.0	5.1
4	---	---	---	6.1	5.7	5.9	6.1	5.5	5.7	5.0	5.0	5.0
5	---	---	---	6.3	5.7	5.9	6.1	5.7	5.9	5.1	5.0	5.0
6	---	---	---	6.3	6.1	6.2	6.4	5.8	6.0	5.2	5.0	5.1
7	---	---	---	6.3	6.0	6.1	6.4	6.0	6.2	5.4	5.2	5.3
8	---	---	---	6.2	6.0	6.1	6.7	6.0	6.3	5.5	5.4	5.4
9	---	---	---	6.2	6.0	6.1	6.7	6.1	6.3	5.5	5.4	5.4
10	---	---	---	6.2	5.9	6.0	6.6	6.2	6.3	5.7	5.4	5.5
11	---	---	---	6.1	5.8	5.9	6.5	6.2	6.3	5.7	5.5	5.6
12	---	---	---	6.2	5.8	5.9	6.3	6.0	6.1	5.7	5.5	5.6
13	---	---	---	6.4	5.8	6.0	6.2	6.0	6.1	6.1	5.6	5.7
14	---	---	---	6.4	6.0	6.1	6.8	6.0	6.2	6.4	6.1	6.3
15	---	---	---	6.3	6.0	6.1	6.5	6.0	6.3	6.4	6.0	6.3
16	---	---	---	6.3	6.0	6.1	6.8	6.2	6.5	6.1	5.9	6.0
17	---	---	---	6.2	6.0	6.1	6.4	6.1	6.3	5.9	5.8	5.9
18	---	---	---	6.1	6.0	6.0	6.5	6.1	6.2	6.4	5.8	6.0
19	---	---	---	6.3	5.8	6.0	6.5	6.2	6.2	6.4	6.0	6.1
20	---	---	---	6.2	5.8	6.0	6.5	6.0	6.2	6.3	6.0	6.2
21	---	---	---	6.2	5.9	6.0	6.6	6.1	6.3	6.0	5.9	5.9
22	---	---	---	6.5	5.9	6.0	6.6	6.1	6.4	6.2	5.8	5.9
23	---	---	---	6.5	6.2	6.4	6.7	6.2	6.3	6.2	5.9	6.1
24	---	---	---	6.4	6.1	6.2	6.8	6.2	6.4	6.3	5.9	6.1
25	---	---	---	6.3	6.0	6.2	6.6	6.2	6.4	6.4	6.0	6.2
26	---	---	---	6.2	6.0	6.1	7.0	6.2	6.4	6.2	6.0	6.0
27	---	---	---	6.1	5.8	6.0	6.9	6.4	6.6	6.3	6.0	6.0
28	---	---	---	6.0	5.8	5.8	7.0	6.4	6.6	6.4	5.9	6.0
29	6.1	5.8	5.9	5.9	5.7	5.8	6.9	6.4	6.6	6.2	6.0	6.1
30	6.0	5.8	5.9	5.7	5.6	5.6	7.1	6.4	6.7	6.7	6.1	6.2
31	---	---	---	5.6	5.5	5.6	6.7	6.4	6.5	---	---	---
Max	---	---	---	6.5	6.2	6.4	7.1	6.4	6.7	6.7	6.1	6.5
Min	---	---	---	5.6	5.5	5.6	5.6	5.4	5.5	5.0	5.0	5.0

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	27.4	25.5	26.2	27.9	26.1	26.9	28.3	24.4	26.7
2	---	---	---	29.0	25.6	27.1	29.0	26.1	27.1	24.4	23.1	23.7
3	---	---	---	30.5	26.8	27.9	32.4	26.4	28.3	23.2	22.6	22.9
4	---	---	---	30.4	27.0	28.3	32.6	27.6	29.9	23.7	22.7	23.0
5	---	---	---	30.0	26.4	28.8	31.8	29.5	30.3	23.3	22.9	23.1
6	---	---	---	29.1	27.6	28.5	31.7	29.1	30.2	23.6	23.0	23.1
7	---	---	---	28.4	26.9	27.6	32.3	29.5	30.2	24.9	22.9	23.3
8	---	---	---	28.6	26.4	27.2	32.5	29.5	30.7	24.2	23.0	23.3
9	---	---	---	28.3	26.4	27.2	31.9	29.6	30.5	24.2	22.9	23.2
10	---	---	---	29.5	26.6	27.2	30.5	29.2	29.7	25.4	23.0	24.0
11	---	---	---	28.6	26.6	27.4	29.5	28.5	29.0	24.6	23.1	23.7
12	---	---	---	29.2	26.2	27.7	28.5	27.6	27.9	23.9	22.5	23.1
13	---	---	---	30.2	26.7	28.0	28.8	27.0	27.9	23.9	22.5	22.9
14	---	---	---	30.0	25.6	28.5	30.6	27.2	28.0	24.5	23.1	23.6
15	---	---	---	30.8	27.8	29.1	30.1	27.3	28.2	25.0	23.4	23.9
16	---	---	---	31.1	27.7	29.5	30.1	28.0	28.9	23.7	22.9	23.3
17	---	---	---	31.1	27.8	28.7	29.1	27.7	28.3	25.8	22.8	23.7
18	---	---	---	29.1	26.8	27.9	28.4	27.6	27.9	25.2	23.2	23.7
19	---	---	---	33.7	27.0	29.1	29.7	27.5	28.1	25.7	23.2	23.9
20	---	---	---	30.8	27.3	28.7	29.9	27.7	28.6	26.8	23.9	24.8
21	---	---	---	30.6	27.4	28.5	29.4	27.8	28.6	24.5	22.9	23.5
22	---	---	---	29.7	27.2	28.0	28.8	27.9	28.4	25.7	22.7	23.5
23	---	---	---	30.5	27.0	28.2	30.1	27.6	28.3	25.1	22.8	23.4
24	---	---	---	29.8	27.8	28.4	31.0	27.4	28.6	25.4	23.1	23.9
25	---	---	---	29.2	27.6	28.3	29.4	27.5	28.3	24.9	23.7	24.3
26	---	---	---	30.6	27.5	28.3	31.4	27.8	28.8	24.8	23.2	23.8
27	---	---	---	29.8	27.2	28.3	29.6	28.1	28.9	26.6	23.0	23.8
28	---	---	---	29.5	26.8	27.7	30.5	28.2	29.1	24.8	23.0	23.5
29	31.3	24.9	26.0	27.7	26.1	26.8	31.2	28.7	29.4	24.6	22.8	23.3
30	28.1	25.1	26.2	27.7	26.0	26.5	30.5	29.1	29.8	24.3	22.5	23.0
31	---	---	---	29.8	25.8	27.1	29.5	28.3	28.9	---	---	---
Month	---	---	---	33.7	25.5	28.0	32.6	26.1	28.8	28.3	22.5	23.6

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	3.1	0.2	1.5	---	---	---	6.0	2.4	4.6
2	---	---	---	4.9	0.1	2.0	3.9	1.9	2.4	2.7	1.9	2.3
3	---	---	---	5.6	1.2	2.8	6.9	1.6	2.7	2.3	1.9	2.0
4	---	---	---	5.7	0.9	3.1	6.0	1.3	3.5	2.4	2.0	2.2
5	---	---	---	5.4	0.2	3.6	6.4	3.1	4.7	2.6	2.0	2.3
6	---	---	---	5.1	3.2	4.3	6.3	3.7	4.9	2.4	1.9	2.2
7	---	---	---	5.7	2.5	3.7	6.6	3.8	5.0	2.1	1.2	1.7
8	---	---	---	4.6	2.4	3.5	6.4	3.1	5.0	1.9	0.7	1.1
9	---	---	---	4.8	1.9	3.5	6.7	3.0	4.7	2.0	0.5	0.9
10	---	---	---	5.3	1.5	3.2	5.9	3.8	4.5	1.8	0.3	1.0
11	---	---	---	5.5	0.7	2.7	4.7	3.5	4.1	2.2	0.5	1.4
12	---	---	---	5.4	0.1	2.4	4.6	2.0	3.1	2.0	0.8	1.3
13	---	---	---	4.9	0.0	2.0	4.7	2.4	3.5	2.7	0.7	1.6
14	---	---	---	5.3	0.0	3.4	7.3	2.3	4.2	3.1	2.1	2.7
15	---	---	---	5.7	1.4	3.7	6.8	2.2	4.5	3.2	1.3	2.6
16	---	---	---	6.3	0.7	4.2	7.7	3.7	6.0	2.3	1.1	1.6
17	---	---	---	5.0	1.1	3.0	6.3	4.2	5.1	2.7	0.9	1.4
18	---	---	---	3.3	0.0	1.4	5.8	3.2	4.5	3.0	1.1	1.8
19	---	---	---	6.8	0.0	2.6	6.3	3.7	4.7	4.9	0.7	1.9
20	---	---	---	6.2	0.6	3.0	6.8	2.2	4.5	4.6	1.9	3.0
21	---	---	---	4.2	0.6	1.9	7.1	2.2	5.0	2.8	0.7	1.6
22	---	---	---	3.3	0.3	1.7	6.7	1.8	4.7	3.5	0.4	1.5
23	---	---	---	5.2	1.0	2.8	6.0	3.5	4.4	3.5	0.5	1.7
24	---	---	---	5.4	1.4	2.8	8.2	3.4	5.3	3.5	0.6	1.9
25	---	---	---	3.9	0.8	2.8	7.7	3.7	5.7	3.3	1.2	2.6
26	---	---	---	4.3	1.6	2.8	8.9	3.9	6.3	3.5	1.0	1.8
27	---	---	---	4.1	0.4	2.2	8.8	5.1	6.9	5.4	1.3	2.3
28	---	---	---	4.0	0.3	1.4	9.1	4.8	6.6	4.0	0.7	2.2
29	3.5	0.6	2.2	---	---	---	8.3	4.9	6.6	3.4	1.5	2.2
30	4.7	0.5	2.2	---	---	---	8.3	3.6	6.6	4.8	1.3	2.0
31	---	---	---	---	---	---	6.0	4.0	4.9	---	---	---
Month	---	---	---	---	---	---	---	---	---	6.0	0.3	2.0

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	39	2	19	---	---	---	76	29	58
2	---	---	---	64	1	26	51	24	30	32	22	27
3	---	---	---	75	15	36	95	20	35	27	22	24
4	---	---	---	76	11	41	83	17	46	28	23	26
5	---	---	---	72	26	48	88	41	63	31	23	27
6	---	---	---	67	41	55	86	49	66	28	22	26
7	---	---	---	73	32	48	91	50	67	25	14	20
8	---	---	---	60	30	45	88	41	68	22	8	13
9	---	---	---	62	24	44	92	40	63	24	6	11
10	---	---	---	70	19	41	79	50	59	22	4	13
11	---	---	---	71	9	34	62	45	53	26	6	16
12	---	---	---	71	1	30	59	25	40	24	9	15
13	---	---	---	65	0	26	61	30	44	32	8	18
14	---	---	---	70	0	45	98	29	54	37	25	32
15	---	---	---	77	18	49	90	28	59	39	15	31
16	---	---	---	85	9	56	102	47	78	27	13	19
17	---	---	---	68	14	39	82	54	66	33	11	17
18	---	---	---	43	0	18	75	41	58	37	13	21
19	---	---	---	94	0	34	83	47	60	60	8	23
20	---	---	---	83	8	39	90	28	58	58	23	36
21	---	---	---	55	8	24	93	28	65	34	8	19
22	---	---	---	42	4	22	87	23	61	43	5	17
23	---	---	---	70	13	37	80	45	57	43	6	20
24	---	---	---	71	18	36	111	43	69	43	7	22
25	---	---	---	50	10	36	100	47	74	40	14	32
26	---	---	---	56	20	37	118	50	82	42	12	22
27	---	---	---	54	5	28	116	66	90	67	15	27
28	---	---	---	52	4	18	121	62	86	48	8	26
29	44	7	27	---	---	---	110	64	87	41	18	26
30	60	6	27	---	---	---	111	47	87	58	15	24
31	---	---	---	---	---	---	79	52	64	---	---	---
Month	---	---	---	---	---	---	---	---	---	76	4	24