

02087580 SWIFT CREEK NEAR APEX, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 2002 to August 2004.

WATER TEMPERATURE: March 2002 to August 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from March 2002 to August 2004.

REMARKS.--Station operated as part of NAWQA program from March 2002 to current year. Station was operated from October 1989 to June 1995 as part of a six county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	510, January 28, 2004	26, August 8, 2003
WATER TEMPERATURE, °C	31.9, August 27, 2003	-0.2, January 25, 26, 2004

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	510, January 28	51, July 13
WATER TEMPERATURE, °C	29.8, July 8	-0.2, January 25, 26

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Medium code	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 uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat fltr inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltr incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
OCT 17...	1000	9	3.8	751	8.1	80	7.1	77	14.1	27	32	5.04	2.9
DEC 30...	0900	9	8.1	754	10.1	85	6.9	78	7.6	23	28	7.00	5.4
FEB 20...	0830	9	13	752	11.9	96	6.8	145	5.6	22	27	25.0	7.1
MAR 18...	0945	9	32	757	11.8	108	6.9	141	11.2	19	23	23.3	7.4
APR 15...	1400	9	20	755	9.7	99	7.0	135	15.9	23	29	19.6	5.5
MAY 12...	1400	9	8.6	760	6.3	75	6.1	131	23.8	30	37	15.8	4.3
JUN 22...	1000	9	.93	753	4.7	54	6.5	114	22.0	40	49	8.60	2.4
JUL 20...	1100	9	2.1	754	5.6	68	6.8	102	24.9	24	29	11.4	4.0
AUG 09...	1100	D	1.9	752	5.6	65	6.4	101	21.8	--	--	--	--
19...	1400	9	15	755	6.6	82	6.8	82	25.8	17	20	6.43	5.2
SEP 23...	1400	9	5.4	758	6.8	76	6.7	92	20.5	24	30	6.68	4.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)
OCT 17...	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.010	<.011	<.02	.011	E.01
DEC 30...	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.020	<.025	<.011	<.02	.008	E.01
FEB 20...	<.007	<.003	<.010	<.004	E.009	<.011	.01	.118	<.025	<.011	<.02	.480	E.01
MAR 18...	<.007	<.003	<.010	<.004	.035	<.011	.02	.075	<.025	<.011	<.02	.589	<.02
APR 15...	<.007	<.003	<.010	<.004	E.017	<.011	.03	.042	<.025	<.011	<.02	.425	<.02
MAY 12...	<.007	<.003	<.010	<.004	<.022	<.011	.04	.050	<.025	<.011	<.02	.172	<.02
JUN 22...	<.007	<.003	<.010	<.004	<.022	<.011	.03	E.012	<.025	<.011	<.02	.039	.03
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	<.007	<.003	<.010	<.004	<.022	<.011	.06	<.004	<.025	<.011	<.02	.059	<.02
SEP 23...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
OCT 17...	<.034	<.02	<.005	<.002	<.009	92	4	.04
DEC 30...	<.034	<.02	<.010	<.002	<.009	96	7	.15
FEB 20...	<.034	<.02	<.010	<.002	<.009	80	24	.84
MAR 18...	<.034	<.02	<.010	<.002	E.006	94	21	1.8
APR 15...	<.034	<.02	<.010	<.002	E.005	81	14	.76
MAY 12...	<.034	<.02	<.010	<.002	<.009	94	12	.28
JUN 22...	<.034	<.02	<.010	<.002	<.009	89	13	.03
JUL 20...	--	--	--	--	--	93	9	.05
AUG 09...	--	--	--	--	--	--	--	--
SEP 19...	<.034	<.02	<.010	<.002	<.009	97	20	.81
SEP 23...	--	--	--	--	--	83	12	.17

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

Medium codes used in this table:

- 9 -- Surface water
- D -- Plant tissue

02087580 SWIFT CREEK NEAR APEX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.3	14.7	16.0	15.9	13.4	14.8	8.9	6.7	7.9	6.6	4.1	5.4
2	16.9	14.9	15.8	16.0	13.9	15.1	8.2	6.2	6.9	8.1	5.4	6.7
3	15.5	12.9	14.3	16.4	14.0	15.3	6.2	5.1	5.6	9.4	6.3	7.8
4	16.6	13.6	14.8	17.8	15.4	16.6	5.7	5.1	5.3	11.8	9.3	10.5
5	17.4	14.4	15.8	19.5	16.7	18.0	7.3	5.7	6.8	13.9	11.2	12.5
6	17.0	14.5	15.7	20.3	18.5	19.3	7.9	6.2	7.1	13.3	7.9	10.7
7	18.1	15.7	16.7	20.4	19.4	19.8	6.3	4.7	5.5	7.9	4.6	5.9
8	17.7	16.8	17.2	19.4	15.4	17.4	5.2	3.5	4.5	4.7	3.0	4.0
9	19.3	17.6	18.5	15.4	12.2	13.6	6.1	3.4	4.7	4.6	3.0	3.8
10	19.1	18.4	18.7	12.6	10.9	11.8	10.0	5.5	7.1	4.0	2.3	3.6
11	18.7	18.3	18.5	12.7	10.2	11.6	9.2	8.0	8.6	2.3	0.5	1.5
12	19.7	17.9	18.8	15.5	12.4	13.8	8.0	6.6	7.3	4.2	1.2	2.6
13	19.8	17.8	18.9	15.5	11.2	13.9	6.9	5.8	6.4	5.5	2.5	3.9
14	19.2	18.7	19.0	11.2	9.0	9.8	6.9	5.7	6.4	5.1	3.1	4.1
15	19.0	16.9	18.1	10.7	8.9	9.8	7.1	5.7	6.3	6.0	4.1	4.8
16	16.9	14.6	15.9	13.0	10.5	11.7	7.4	5.2	6.3	4.6	3.0	3.9
17	16.3	13.7	15.2	15.4	12.9	14.1	8.6	6.7	7.8	4.9	2.3	3.5
18	16.9	15.6	16.2	16.5	14.8	15.7	7.0	5.7	6.4	7.0	4.9	6.0
19	15.6	13.4	14.7	16.9	15.5	16.2	6.5	5.3	6.1	6.7	4.4	5.8
20	15.8	13.5	14.7	15.5	13.1	14.4	5.3	3.8	4.8	4.4	2.5	3.3
21	17.1	14.4	15.7	14.2	11.7	12.9	4.2	2.5	3.4	3.5	1.2	2.4
22	16.8	15.0	16.1	13.6	11.1	12.4	5.0	2.7	3.8	4.4	1.3	2.9
23	15.0	13.0	13.8	13.3	10.7	12.2	7.4	3.6	5.3	3.7	2.1	3.0
24	13.2	11.3	12.3	14.3	10.9	12.6	10.0	7.4	8.7	5.5	2.4	3.8
25	14.3	11.8	13.0	13.4	9.6	11.0	8.3	5.2	6.7	4.7	-0.2	1.9
26	16.0	14.1	15.0	10.7	8.4	9.5	5.4	3.7	4.6	0.6	-0.2	0.3
27	17.6	15.5	16.5	12.2	9.5	10.8	5.3	2.9	4.1	1.9	0.6	1.2
28	16.9	14.4	15.4	14.6	12.0	13.2	5.5	3.1	4.3	2.4	0.4	1.3
29	16.6	14.7	15.6	12.0	8.3	10	6.7	3.8	5.2	3.7	0.9	2.2
30	16.1	14.1	15.1	8.6	6.9	7.9	8.5	6.6	7.5	4.8	2.6	3.6
31	16.0	13.4	14.7	---	---	---	6.9	4.8	5.9	3.9	1.7	2.8
MONTH	19.8	11.3	16.0	20.4	6.9	13.5	10.0	2.5	6.0	13.9	-0.2	4.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	1.1	2.2	10.3	6.4	8.4	14.9	12.0	13.5	---	---	---
2	4.4	1.1	2.6	11.5	9.3	10.4	14.1	12.2	13.0	---	---	---
3	5.3	3.6	4.5	15.0	10.8	12.6	15.2	10.6	12.8	---	---	---
4	5.9	3.8	4.8	17.0	12.4	14.5	16.3	11.6	13.5	---	---	---
5	5.4	3.7	4.7	17.6	14.2	15.8	15.3	10.0	12.6	20.1	16.3	18.1
6	8.6	5.3	6.9	16.6	15.2	16.0	15.9	9.4	12.6	22.1	17.6	19.8
7	8.8	6.7	7.7	16.6	13.7	15.0	17.8	11.1	14.3	23.8	19.2	21.4
8	7.0	5.1	6.0	13.9	11.0	12.6	19.0	13.6	16.3	24.2	21.0	22.5
9	5.7	4.1	5.1	12.2	9.2	10.6	20.3	14.7	17.2	24.7	21.6	23.0
10	7.6	5.3	6.3	12.1	9.4	10.5	18.6	14.3	16.6	24.8	21.4	23.1
11	8.2	6.2	7.1	12.6	7.8	10.2	18.2	16.2	17.2	24.7	21.2	22.9
12	7.0	5.8	6.4	13.6	8.8	11.1	16.6	13.9	14.7	24.1	21.1	22.8
13	8.1	5.4	6.7	13.0	8.8	10.8	16.6	14.7	15.4	25.8	23.0	24.2
14	7.7	6.7	7.2	13.5	8.7	11.0	15.9	13.3	14.5	25.4	21.9	23.6
15	7.9	5.8	7.3	14.2	11.7	12.9	17.0	12.0	14.3	25.6	21.4	23.4
16	6.7	4.9	5.7	14.4	13.2	13.7	18.4	12.5	15.4	25.0	21.4	23.3
17	5.4	4.5	4.7	13.2	11.6	12.6	20.0	14.0	16.9	25.6	21.0	23.1
18	6.6	3.8	5.1	11.6	10.4	11.2	21.5	16.4	18.9	25.9	21.1	23.3
19	7.9	4.2	6.0	14.4	11.0	12.5	22.1	17.7	19.9	25.4	21.9	23.4
20	9.3	5.6	7.4	14.7	10.5	12.7	22.9	18.4	20.7	26.6	23.7	25.1
21	11.4	8.3	9.6	15.9	11.9	13.9	22.4	19.0	20.8	28.1	24.3	26.0
22	10.4	7.4	8.8	13.4	9.7	11.2	22.2	18.6	20.6	28.4	24.3	26.2
23	9.2	6.7	8.0	12.6	7.5	10	23.2	19.1	21.2	27.9	24.2	25.7
24	10.2	7.8	8.9	13.5	7.8	10.6	22.8	20.0	21.5	27.4	23.6	25.3
25	9.8	7.1	8.4	16.4	10.1	13.0	22.6	19.6	21.1	28.4	23.8	25.8
26	7.7	4.5	5.7	18.4	12.2	15.2	21.6	19.6	20.7	27.5	24.2	25.8
27	5.0	3.1	4.0	19.3	14.2	16.7	21.3	19.3	20.3	27.4	23.7	25.4
28	8.0	4.4	6.1	18.4	15.4	17.1	19.7	16.4	18.2	26.6	23.5	24.9
29	9.0	5.2	7.0	18.1	13.2	15.5	20.4	16.4	18.3	26.2	22.0	24.1
30	---	---	---	14.7	12.6	13.4	20.8	17.6	19.3	24.0	21.8	23.3
31	---	---	---	15.3	12.4	13.6	---	---	---	25.2	23.0	24.0
MONTH	11.4	1.1	6.2	19.3	6.4	12.8	23.2	9.4	17.1	---	---	---

NEUSE RIVER BASIN

02087580 SWIFT CREEK NEAR APEX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.9	22.0	23.8	26.4	23.3	24.7	28.6	26.3	27.3	---	---	---
2	25.9	20.6	23.1	27.8	24.0	25.6	29.1	27.4	28.1	---	---	---
3	26.0	21.2	23.5	27.2	24.2	25.6	29.3	27.8	28.5	---	---	---
4	24.1	22.3	22.8	28.3	24.6	26.2	28.9	26.3	27.6	---	---	---
5	24.8	22.0	23.3	29.6	24.8	26.9	27.7	25.8	26.8	---	---	---
6	23.5	21.4	22.3	29.1	24.8	26.9	27.9	25.4	27.3	---	---	---
7	24.4	21.3	22.7	29.6	24.9	27.1	25.4	22.9	24.2	---	---	---
8	26.3	23.8	24.8	29.8	24.8	27.1	24.0	21.1	22.7	---	---	---
9	25.7	23.1	24.5	29.5	25.1	27.2	24.8	21.1	22.9	---	---	---
10	27.7	23.4	25.4	28.5	24.9	26.7	25.3	21.5	23.3	---	---	---
11	28.6	24.3	26.3	28.6	24.9	26.6	26.0	21.9	23.9	---	---	---
12	26.6	23.4	24.8	28.6	24.8	26.5	25.0	22.6	23.4	---	---	---
13	23.5	21.4	22.7	28.8	26.3	27.4	25.9	24.1	25.1	---	---	---
14	25.2	22.1	23.4	29.7	25.7	27.6	25.2	23.9	24.3	---	---	---
15	25.4	22.9	24.1	28.4	25.7	27.0	23.9	21.9	23.0	---	---	---
16	25.8	23.3	24.4	27.2	23.3	25.3	24.1	22.6	23.2	---	---	---
17	27.1	23.8	25.1	26.7	22.7	24.6	25.2	23.0	24.1	---	---	---
18	29.3	24.5	26.6	25.8	23.6	24.8	25.8	23.8	24.7	---	---	---
19	28.5	24.9	26.6	26.6	24.2	25.4	26.6	23.7	25.0	---	---	---
20	27.3	24.1	25.6	27.2	23.7	25.4	26.8	24.0	25.5	---	---	---
21	24.5	21.6	23.0	27.6	23.8	25.6	26.8	24.9	25.7	---	---	---
22	26.1	21.8	23.8	27.1	23.7	25.4	26.8	25.1	26.1	---	---	---
23	27.3	23.6	25.3	29.1	25.7	27.9	26.1	24.5	25.4	---	---	---
24	25.6	23.9	24.6	28.2	26.5	27.3	25.7	23.1	24.5	---	---	---
25	26.8	23.3	24.8	26.5	24.7	25.1	25.1	22.6	23.9	---	---	---
26	25.8	24.1	25.0	27.4	24.3	25.6	25.1	22.8	23.9	---	---	---
27	25.3	24.0	24.6	28.2	24.9	26.2	26.6	23.6	24.8	---	---	---
28	25.0	23.1	23.9	27.3	25.1	26.0	26.7	23.4	24.8	---	---	---
29	27.1	24.2	25.6	27.0	24.7	25.4	24.6	23.6	24.2	---	---	---
30	25.8	23.9	24.9	27.9	25.2	26.4	26.0	23.8	25.2	---	---	---
31	---	---	---	28.1	25.3	26.6	26.2	24.6	25.5	---	---	---
MONTH	29.3	20.6	24.4	29.8	22.7	26.2	29.3	21.1	25.0	---	---	---