

02172050 COOPER RIVER NEAR GOOSE CREEK, SC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1970 to current year.

pH: July 1981 to September 1993 (discontinued).

WATER TEMPERATURE: October 1970 to current year.

DISSOLVED OXYGEN: July 1981 to September 1995, February 2004 to September 2004.

INSTRUMENTATION.--Water-quality multiprobe and data collection platform.

REMARKS.-- Temperature records rated excellent. Specific conductance records rated excellent except for Dec. 12 to Feb. 2, Mar. 9 to Apr. 6, May 27 to June 9, which are good. Dissolved oxygen records rated good except for May 28 to June 4, Sep. 30, which are fair, and June 5-9, which are poor. Top and bottom temperature July 1975 to Oct. 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,270 microsiemens, Oct. 8, 1985; minimum, 30 microsiemens, Sep. 2 - 4, 1987.

pH: Maximum, 8.5 units, Sep. 29, 30, 1981; minimum, 5.3 units, May 29, 30, 1993.

WATER TEMPERATURE: Maximum, 32.5°C, Aug.1, 2, 1999; minimum, 3.0°C, Jan. 16, 1988.

DISSOLVED OXYGEN: Maximum, 15.2 mg/L, Feb. 4, 5, 1994; minimum, 0.0 mg/L, Oct. 2, 7, 8, 1989.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,520 microsiemens, Mar. 30; minimum, 71 microsiemens, Sep. 1.

WATER TEMPERATURE: Maximum, 30.8°C, July 23; minimum, 6.6°C, Feb. 2.

DISSOLVED OXYGEN: Maximum, 11.6 mg/L, Feb. 5; minimum, 3.2 mg/L, Sep. 1, 2.

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	543	115	302	248	89	157	157	90	126	142	94	116
2	522	115	300	263	92	170	140	85	117	138	87	105
3	542	106	285	317	95	195	177	88	131	216	86	129
4	530	108	257	281	95	192	363	86	191	285	93	175
5	247	95	167	231	93	155	370	93	218	330	99	193
6	215	92	150	207	88	140	245	90	163	274	97	186
7	218	90	148	164	86	126	236	92	163	268	101	177
8	202	89	143	220	83	139	234	89	145	209	96	146
9	216	90	150	254	88	167	247	91	161	399	108	191
10	236	92	165	251	93	147	537	101	245	435	103	215
11	243	91	167	168	92	130	264	91	153	307	101	177
12	239	90	159	157	83	120	214	92	150	212	102	148
13	238	97	160	132	81	98	290	92	179	164	105	138
14	266	90	161	120	82	96	568	101	321	200	110	161
15	160	85	119	197	78	114	300	89	155	184	109	147
16	147	82	108	208	80	131	196	89	142	177	105	144
17	230	83	139	283	86	162	221	94	154	225	102	157
18	271	81	131	500	100	277	156	87	123	671	108	285
19	624	91	309	727	102	390	158	88	120	600	116	330
20	911	98	379	387	92	240	156	84	116	649	140	366
21	507	94	280	382	95	222	204	85	136	583	125	311
22	405	102	235	473	102	271	250	87	159	541	150	323
23	492	107	287	634	114	330	428	92	223	415	123	225
24	507	107	294	726	106	353	602	108	307	287	112	179
25	559	114	321	647	105	323	505	114	258	246	119	171
26	587	103	313	594	99	287	385	115	248	277	123	206
27	585	120	327	623	114	326	329	102	196	246	109	180
28	593	112	308	573	115	324	210	95	151	158	101	122
29	470	124	288	191	93	130	176	99	144	109	97	102
30	325	92	190	186	101	148	167	99	138	141	97	109
31	238	87	149	---	---	---	149	100	126	445	103	174
MONTH	911	81	222	727	78	202	602	84	173	671	86	187

COOPER RIVER BASIN

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Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.8	22.6	23.3	20.6	19.7	20.1	14.8	13.9	14.3	9.9	9.3	9.6			
2	23.4	22.4	22.9	20.5	19.8	20.1	14.2	13.5	13.9	9.7	9.3	9.4			
3	22.6	21.7	22.2	20.5	19.9	20.2	13.7	12.8	13.3	10.1	9.4	9.7			
4	22.3	21.6	21.9	20.9	20.2	20.5	13.1	12.2	12.7	10.8	9.9	10.4			
5	22.3	21.7	22.1	21.5	20.7	21.1	12.7	11.7	12.1	12.1	10.7	11.4			
6	22.5	22.0	22.3	22.1	21.4	21.8	12.0	11.5	11.7	12.4	11.8	12.1			
7	22.6	22.2	22.4	22.3	21.8	22.1	11.8	11.3	11.5	11.9	10.5	11.4			
8	22.8	22.3	22.5	22.2	21.5	21.9	11.6	11.0	11.4	11.1	9.6	10.4			
9	23.0	22.4	22.7	21.7	19.5	20.6	11.8	11.0	11.4	11.1	9.7	10.4			
10	22.9	22.5	22.7	20.3	18.3	19.0	12.3	11.4	11.9	10.4	9.0	9.6			
11	22.8	22.1	22.4	19.1	18.1	18.6	12.0	11.3	11.7	9.6	8.0	8.8			
12	22.6	21.7	22.3	19.2	18.4	18.8	12.0	11.0	11.5	9.1	7.7	8.4			
13	22.9	22.0	22.5	19.3	18.8	19.0	11.9	11.0	11.5	9.1	8.0	8.5			
14	23.3	22.6	22.9	18.8	17.8	18.4	11.8	10.4	11.2	9.3	8.3	8.8			
15	22.9	22.0	22.4	18.1	17.0	17.6	10.9	10.0	10.4	9.4	8.8	9.0			
16	22.5	21.3	21.9	17.9	16.8	17.4	10.8	10.0	10.4	9.4	8.8	9.1			
17	22.2	21.1	21.7	18.0	17.1	17.4	10.9	10.2	10.6	9.4	8.8	9.0			
18	21.8	21.0	21.4	18.3	17.4	17.8	10.5	9.8	10.2	10.0	8.9	9.6			
19	21.7	20.8	21.2	18.4	17.8	18.2	10.2	9.1	9.6	10.4	10.0	10.2			
20	21.6	20.8	21.1	18.1	17.4	17.8	9.5	8.6	9.2	10.3	9.5	9.9			
21	21.5	20.9	21.1	17.8	17.0	17.4	9.2	8.4	8.7	10.0	8.8	9.4			
22	21.5	20.9	21.1	17.7	16.9	17.3	9.0	8.2	8.6	10.0	8.8	9.4			
23	21.1	20.8	20.9	17.6	16.9	17.3	9.5	8.4	9.0	9.7	8.7	9.2			
24	20.8	20.3	20.6	18.0	17.1	17.5	10.0	9.2	9.6	9.6	8.4	9.1			
25	20.7	19.9	20.4	17.8	16.9	17.3	10.0	9.4	9.7	9.6	8.7	9.2			
26	21.1	20.3	20.7	17.5	16.3	17.0	10.0	8.8	9.5	9.4	7.7	8.6			
27	21.2	20.8	21.0	17.7	16.5	17.1	9.8	8.5	9.2	8.6	7.1	7.9			
28	21.3	20.8	21.0	17.7	16.8	17.3	9.7	8.5	9.1	7.6	6.7	7.1			
29	21.2	20.2	20.7	16.8	15.0	16.1	9.6	8.8	9.2	7.1	6.8	7.0			
30	20.9	19.8	20.5	15.8	14.2	15.1	9.9	9.0	9.5	7.3	6.9	7.1			
31	20.7	19.7	20.2	---	---	---	9.9	9.4	9.6	7.6	7.1	7.3			
MONTH	23.8	19.7	21.7	22.3	14.2	18.6	14.8	8.2	10.7	12.4	6.7	9.3			

DAY	MAX	MIN	MEAN	FEBRUARY			MARCH			APRIL			MAY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	6.8	7.2	9.7	8.4	9.0	15.8	15.4	15.7	21.5	21.2	21.4			
2	7.4	6.6	7.0	10.7	9.2	9.9	15.7	15.3	15.5	21.7	21.2	21.5			
3	7.9	7.2	7.6	11.8	10.2	10.9	15.9	15.2	15.5	21.8	21.3	21.6			
4	8.2	7.7	7.9	12.7	11.0	11.8	16.7	15.6	16.0	21.5	20.8	21.2			
5	8.7	7.8	8.2	13.4	12.0	12.7	16.6	15.8	16.1	21.8	20.7	21.3			
6	10.0	8.4	9.2	14.0	13.0	13.5	17.0	15.9	16.4	23.0	21.3	21.9			
7	10.8	9.9	10.4	14.3	13.0	13.9	17.3	16.2	16.7	24.0	21.9	22.9			
8	10.6	9.3	10.0	14.2	13.0	13.7	17.5	16.7	17.1	24.4	22.9	23.6			
9	10.3	8.8	9.7	13.9	12.5	13.3	18.4	17.0	17.5	24.5	23.6	24.1			
10	10.0	8.9	9.5	13.5	12.2	12.9	19.0	17.4	18.2	24.5	23.9	24.2			
11	10.1	9.1	9.5	13.0	11.7	12.5	19.6	18.2	18.9	24.6	24.0	24.3			
12	9.9	8.8	9.5	13.2	12.3	12.7	19.6	18.9	19.3	24.6	23.9	24.3			
13	9.6	8.6	9.2	13.4	12.5	12.9	19.6	18.5	19.2	24.7	23.8	24.3			
14	9.5	8.7	9.1	13.8	12.7	13.2	18.5	16.9	17.8	24.8	24.0	24.4			
15	9.4	8.7	9.0	14.7	13.4	13.9	17.5	16.3	17.0	24.8	23.7	24.3			
16	9.2	8.7	8.9	14.9	14.1	14.5	17.7	16.6	17.2	24.9	24.0	24.5			
17	9.1	8.2	8.6	15.0	14.5	14.8	18.8	17.4	17.9	24.9	24.2	24.7			
18	8.4	7.7	8.1	15.1	14.5	14.8	19.7	18.1	18.7	25.2	24.3	24.9			
19	8.9	7.9	8.4	16.0	14.8	15.3	20.4	18.7	19.5	25.5	24.7	25.2			
20	9.7	8.6	9.1	16.0	15.4	15.7	20.5	19.4	20.0	25.6	24.8	25.3			
21	10.8	9.5	10.0	16.5	15.5	16.0	20.8	19.7	20.3	25.9	24.5	25.4			
22	11.3	10.1	10.6	16.0	14.9	15.5	21.0	19.8	20.5	26.1	25.1	25.6			
23	11.3	10.6	11.0	15.5	13.4	14.5	21.3	20.3	20.9	26.3	25.4	25.9			
24	11.4	10.9	11.1	14.7	13.6	14.3	21.7	20.3	21.0	26.7	25.7	26.2			
25	11.2	10.2	10.9	15.5	14.2	14.7	21.9	21.0	21.5	26.9	25.7	26.3			
26	10.7	8.5	9.7	16.1	14.8	15.3	22.0	21.5	21.8	27.1	26.1	26.5			
27	9.0	7.9	8.3	16.9	15.3	16.0	22.0	21.5	21.8	27.2	26.2	26.7			
28	8.4	7.5	7.8	17.1	16.1	16.7	21.7	20.1	21.2	27.3	26.5	26.8			
29	8.9	7.7	8.4	17.0	16.1	16.6	21.2	20.4	20.8	27.5	26.8	27.1			
30	---	---	---	16.7	16.0	16.5	21.5	20.8	21.2	27.8	27.1	27.5			
31	---	---	---	16.4	15.8	16.1	---	---	---	28.0	27.5	27.8			
MONTH	11.4	6.6	9.1	17.1	8.4	14.0	22.0	15.2	18.7	28.0	20.7	24.6			

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Dissolved oxygen, water, unfiltered, milligrams per liter
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	10.4	9.6	10.0	8.3	7.2	7.9	7.3	6.0	6.8
2	---	---	---	10.3	9.5	9.9	---	---	---	6.8	5.7	6.4
3	---	---	---	10.0	9.0	9.6	---	---	---	6.6	5.8	6.3
4	---	---	---	9.9	8.8	9.4	---	---	---	7.2	6.0	6.5
5	11.6	10.4	11.3	9.6	8.5	9.2	---	---	---	7.4	6.2	6.6
6	11.3	10.3	11.1	9.4	8.4	9.0	---	---	---	7.5	6.1	6.7
7	11.0	10.4	10.7	9.3	7.2	8.7	8.8	7.8	8.3	7.7	6.0	6.8
8	11.2	10.1	10.7	9.1	6.8	8.3	8.3	7.6	8.0	7.5	6.3	6.8
9	11.0	10.3	10.7	9.5	7.8	8.7	8.0	7.2	7.7	7.1	6.0	6.6
10	10.9	10.2	10.6	9.4	7.9	8.6	8.0	7.0	7.6	6.9	6.0	6.4
11	10.9	10.1	10.6	9.7	8.2	8.9	7.8	6.9	7.4	6.8	5.6	6.3
12	10.7	9.9	10.3	9.6	8.6	9.2	7.6	6.9	7.3	6.7	5.7	6.1
13	10.7	9.8	10.3	9.5	8.4	9.1	7.4	6.6	7.0	6.4	5.6	6.0
14	10.6	9.7	10.2	9.4	8.5	9.0	7.4	6.5	6.9	6.3	5.7	6.0
15	10.2	9.5	9.9	9.4	8.3	8.9	7.7	6.6	7.2	6.3	5.6	6.0
16	10.1	9.4	9.8	9.3	7.9	8.7	7.9	6.8	7.4	6.3	5.5	5.9
17	10.2	9.5	9.8	9.0	7.8	8.5	8.1	7.1	7.5	6.2	5.6	5.9
18	10.4	9.6	10.0	9.3	7.9	8.7	8.0	7.1	7.6	6.4	5.5	5.8
19	10.7	9.8	10.3	9.4	8.1	8.7	7.7	6.8	7.3	6.1	5.1	5.7
20	10.6	10.0	10.3	9.2	7.8	8.7	7.5	6.6	7.1	6.5	5.5	5.8
21	10.3	9.6	10.1	8.9	7.6	8.4	7.5	6.7	7.0	6.4	5.3	5.9
22	10.2	9.3	10.0	9.2	7.5	8.4	7.4	6.4	7.0	6.2	5.2	5.9
23	10.2	9.5	9.9	9.4	7.7	8.7	7.2	6.3	6.8	6.4	5.3	5.8
24	10.0	9.2	9.6	9.2	8.2	8.7	7.3	6.3	6.8	6.1	5.3	5.8
25	9.8	8.9	9.4	9.2	8.0	8.7	7.3	6.0	6.7	6.1	5.2	5.7
26	10.1	9.0	9.5	9.2	7.9	8.6	7.3	6.0	6.6	6.1	5.2	5.8
27	10.1	9.2	9.6	8.9	7.2	8.4	7.2	5.8	6.5	6.3	5.4	5.9
28	10.4	9.4	9.9	8.8	7.2	8.1	7.3	6.1	6.8	6.3	5.5	5.9
29	10.4	9.6	10.1	8.7	7.3	8.0	7.5	6.6	7.1	6.1	5.5	5.8
30	---	---	---	8.3	7.4	7.9	7.7	6.8	7.3	5.8	5.1	5.5
31	---	---	---	8.1	7.3	7.8	---	---	---	5.8	4.8	5.3
MONTH	---	---	---	10.4	6.8	8.8	---	---	---	7.7	4.8	6.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	5.5	4.8	5.2	5.7	4.8	5.2	5.3	4.2	4.7	4.0	3.2	3.6
2	5.4	4.5	4.9	5.7	4.7	5.1	5.8	4.0	4.9	4.3	3.2	3.7
3	5.3	4.4	4.8	5.9	4.5	5.1	6.1	4.3	5.0	4.4	3.4	3.9
4	5.2	4.3	4.7	6.3	4.7	5.2	6.1	4.5	5.3	4.4	3.7	4.1
5	5.7	4.2	4.7	6.5	4.7	5.4	6.0	4.8	5.4	4.9	3.8	4.3
6	5.7	4.3	4.9	6.2	5.1	5.6	5.8	4.8	5.4	5.2	4.2	4.7
7	5.5	4.4	4.9	6.2	5.1	5.6	6.0	5.0	5.6	5.4	4.7	5.1
8	5.4	4.4	4.8	5.9	5.0	5.5	6.0	5.2	5.7	5.8	5.1	5.5
9	5.4	4.4	4.9	5.8	4.8	5.3	6.2	5.3	5.8	5.8	5.0	5.4
10	5.2	4.4	4.8	5.5	4.7	5.1	6.8	5.2	6.0	5.4	4.6	5.0
11	5.2	4.5	4.9	5.3	4.6	5.0	6.7	5.7	6.2	5.1	4.4	4.7
12	5.5	4.4	5.1	5.2	4.4	4.8	6.4	5.6	6.0	5.1	4.2	4.7
13	5.2	4.6	5.0	5.4	4.4	4.8	6.1	5.4	5.8	5.2	4.4	4.8
14	5.5	4.4	4.9	5.7	4.5	5.1	6.5	5.2	5.9	5.1	4.4	4.9
15	5.5	4.7	5.0	5.8	4.6	5.2	6.4	5.4	6.0	5.4	4.6	5.0
16	5.7	4.8	5.3	6.0	4.9	5.3	6.4	5.4	5.9	6.1	4.6	5.3
17	5.9	5.0	5.3	6.0	4.8	5.3	6.3	5.4	5.8	6.5	5.0	5.8
18	6.2	5.1	5.5	5.5	4.7	5.2	6.7	5.5	6.0	6.4	5.5	6.1
19	6.4	5.2	5.7	5.4	4.2	4.9	6.9	5.5	6.1	6.5	5.7	6.1
20	6.2	4.8	5.5	5.7	4.3	5.0	6.4	5.5	6.1	6.8	5.9	6.3
21	5.9	5.0	5.4	5.8	4.4	5.1	6.3	5.4	6.1	7.0	5.9	6.5
22	6.5	4.7	5.6	6.0	4.7	5.4	6.2	5.3	5.8	6.8	6.0	6.5
23	6.4	5.3	5.9	5.9	4.8	5.4	6.0	5.0	5.6	6.9	6.2	6.6
24	6.5	5.6	6.1	5.7	4.6	5.2	5.8	5.0	5.4	6.7	6.1	6.5
25	6.5	5.7	6.2	5.5	4.3	4.9	5.8	4.9	5.4	6.7	6.0	6.4
26	6.5	5.7	6.1	5.5	4.2	5.0	5.9	5.0	5.4	6.8	6.0	6.4
27	6.3	5.6	6.0	5.6	4.4	5.1	6.0	5.0	5.5	6.9	6.2	6.6
28	6.1	5.4	5.8	5.5	4.3	5.0	5.8	4.8	5.3	7.0	6.3	6.7
29	6.1	5.2	5.6	5.2	4.3	4.8	6.2	4.8	5.7	6.9	6.2	6.6
30	6.0	4.8	5.5	5.3	4.1	4.8	5.8	5.0	5.5	6.6	6.0	6.4
31	---	---	---	5.3	4.1	4.8	5.1	3.8	4.2	---	---	---
MONTH	6.5	4.2	5.3	6.5	4.1	5.1	6.9	3.8	5.6	7.0	3.2	5.5