

SANTEE RIVER BASIN

02167716 LITTLE SALUDA RIVER NEAR PROSPERITY, SC

WATER-QUALITY RECORDS

LOCATION.--Lat 34°04'46'', long 81°33'43'', Saluda County, Hydrologic Unit Code 03050109, at center of Hwy 391 Bridge, 2.3 mi north of Hwy 378 Traffic Circle, 16.3 mi east of Saluda, and 15.9 mi south of Prosperity.

PERIOD OF RECORD.--Water years 1993 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE (Top): February 1993 to current year.

WATER TEMPERATURE (Middle, Bottom): February 1993 to September 2002 (discontinued).

DISSOLVED OXYGEN (Top): February 1993 to current year.

DISSOLVED OXYGEN (Middle, Bottom): February 1993 to September 2002 (discontinued).

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

REMARKS.--Temperature records rated excellent. Dissolved oxygen records rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE (Top): Maximum, 35.1°C, Aug. 25, 2003 ; minimum, 2.5°C, Jan. 27, 2000.

WATER TEMPERATURE (Middle): Maximum, 32.5°C, Aug. 8, 1999; minimum, 3.0°C, Jan. 27, 2000.

WATER TEMPERATURE (Bottom): Maximum, 30.5°C, Aug. 27-30, 1993, Jul. 24, 1997, on several days during Aug. 1999; minimum, 3.5°C, on several days during Jan., Feb. 1, 2, 2000.

DISSOLVED OXYGEN (Top): Maximum, 17.2 mg/L, May 12, 1998; minimum, 0.0 mg/L, Oct. 2, 4, 5, 1994, on many days during 1993-99, Sep. 2, 2005.

DISSOLVED OXYGEN (Middle): Maximum, 16.6 mg/L, Nov. 8, 2001; minimum, 0.0 mg/L, on many days several years.

DISSOLVED OXYGEN (Bottom): Maximum, 17.8 mg/L, Feb. 6, 2001; minimum, 0.0 mg/L, on many days several years.

EXTREMES FOR CURRENT WATER YEAR.--

WATER TEMPERATURE (Top): Maximum, 32.4°C, July 27; minimum, 6.2°C, Feb. 4.

DISSOLVED OXYGEN (Top): Maximum, 13.7 mg/L, Feb. 8; minimum, 0.0 mg/L, Sep. 2.

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.1	24.0	24.4	21.5	20.9	21.1	14.5	13.9	14.3	9.2	8.3	8.6
2	26.8	23.9	24.9	22.2	21.2	21.7	14.2	13.8	13.9	9.3	8.5	8.9
3	26.2	24.7	25.3	22.6	21.6	21.9	14.1	13.4	13.7	10.5	8.9	9.3
4	25.5	24.4	24.8	22.0	21.2	21.7	13.9	13.2	13.4	11.2	9.4	10.3
5	24.8	24.0	24.4	21.2	20.5	20.9	13.5	12.9	13.1	11.0	10.2	10.7
6	24.6	23.6	24.0	20.8	20.1	20.3	13.1	12.9	13.0	11.2	10.3	10.8
7	24.0	23.2	23.5	20.5	19.5	19.9	13.6	12.9	13.2	11.3	10.8	11.0
8	23.6	22.9	23.2	19.9	19.3	19.6	13.5	13.4	13.5	12.1	11.0	11.5
9	23.3	22.8	23.0	19.4	18.5	18.8	14.2	13.4	13.7	11.8	11.5	11.6
10	23.4	22.7	22.9	18.5	17.9	18.2	14.3	13.9	14.1	12.4	11.6	11.9
11	23.7	22.8	23.1	17.9	17.4	17.6	14.1	13.5	13.7	12.5	11.7	12.0
12	23.5	23.0	23.2	17.5	17.3	17.4	13.5	13.0	13.2	12.5	11.9	12.1
13	23.5	22.7	23.1	17.3	16.8	17.1	13.0	12.6	12.8	13.8	12.3	12.9
14	22.8	22.2	22.5	16.9	16.1	16.3	12.6	11.9	12.2	13.9	12.9	13.4
15	22.2	21.4	21.8	16.1	15.6	15.8	11.9	11.3	11.6	13.0	12.2	12.5
16	21.4	20.8	21.0	15.8	15.2	15.4	11.4	10.8	11.1	12.3	11.7	12.0
17	22.0	20.5	20.9	15.2	14.9	15.0	10.9	10.6	10.7	11.7	10.8	11.2
18	21.4	20.9	21.1	15.7	14.9	15.2	10.9	10.3	10.5	10.8	10.0	10.4
19	21.2	20.7	21.0	16.0	14.9	15.2	10.4	9.9	10.3	10.0	9.2	9.5
20	21.4	20.7	20.9	16.5	15.0	15.7	9.9	9.3	9.5	9.7	8.9	9.1
21	21.8	20.9	21.4	16.8	15.8	16.1	9.3	8.9	9.1	9.5	9.1	9.3
22	21.7	21.0	21.3	17.2	16.0	16.3	9.3	8.8	9.0	9.1	8.6	8.9
23	21.3	20.7	20.9	17.1	15.9	16.7	9.7	8.9	9.4	8.6	7.9	8.2
24	21.0	20.4	20.6	17.3	16.3	16.9	9.6	9.1	9.3	8.0	7.5	7.7
25	20.6	20.3	20.4	16.8	16.0	16.3	9.1	8.6	8.8	8.7	7.3	7.7
26	20.7	20.4	20.5	16.0	15.5	15.7	8.6	8.2	8.3	8.7	7.4	7.9
27	21.0	20.3	20.6	15.6	14.8	15.1	8.3	7.8	8.1	8.2	7.8	8.0
28	20.8	20.4	20.5	15.4	14.5	14.8	8.4	7.6	7.8	7.9	7.1	7.5
29	20.5	20.3	20.4	14.7	14.2	14.4	7.9	7.5	7.7	7.1	6.5	6.7
30	21.0	20.2	20.5	14.5	14.1	14.2	8.3	7.8	7.9	6.6	6.4	6.5
31	21.5	20.4	20.9	---	---	---	8.5	7.9	8.2	6.8	6.4	6.6
MONTH	26.8	20.2	22.2	22.6	14.1	17.4	14.5	7.5	11.1	13.9	6.4	9.8

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Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.0	6.5	6.7	10.9	10.3	10.6	15.8	14.6	15.3	20.6	18.1	19.1
2	6.8	6.5	6.6	10.7	9.8	10.2	16.2	14.9	15.4	21.8	19.0	20.2
3	6.6	6.3	6.5	11.1	9.8	10.2	15.6	14.6	15.0	21.1	19.1	20.0
4	7.2	6.2	6.5	11.1	9.8	10.3	16.4	14.8	15.2	20.7	19.4	20.0
5	7.3	6.5	6.9	10.8	9.6	10.2	20.4	14.8	16.6	20.6	19.1	19.7
6	7.8	6.7	7.2	11.9	10.0	10.6	19.3	16.9	17.9	19.8	18.6	19.2
7	7.6	7.1	7.3	11.3	10.4	10.7	17.9	17.3	17.7	22.3	19.0	20.4
8	9.1	7.2	8.1	11.3	10.4	11.0	19.1	17.0	17.8	23.3	20.2	21.6
9	9.5	7.5	8.5	11.4	10.8	11.0	18.1	16.3	17.2	24.0	21.1	22.3
10	9.5	8.0	8.7	12.2	10.7	11.3	19.0	17.2	18.0	23.9	22.3	23.0
11	9.0	8.0	8.5	11.3	10.8	11.1	22.2	17.6	19.1	23.8	21.8	22.6
12	9.0	8.0	8.5	11.8	10.6	11.0	20.3	18.6	19.4	24.4	23.0	23.7
13	8.7	8.3	8.4	12.4	11.1	11.6	19.1	17.3	18.2	25.4	22.9	24.2
14	8.7	8.2	8.5	12.3	11.7	11.9	17.7	16.5	17.1	26.1	23.4	24.7
15	8.9	8.7	8.8	12.3	11.6	11.8	17.6	16.7	17.1	25.9	24.3	25.1
16	10.0	8.7	9.5	12.4	11.5	11.9	17.4	16.5	17.0	25.8	23.4	24.6
17	10.5	9.3	9.9	11.5	10.9	11.2	19.4	16.5	17.4	26.2	24.2	25.0
18	10.1	9.5	9.8	11.6	10.7	11.0	22.0	17.1	18.0	25.5	24.4	24.9
19	10.8	9.5	9.9	11.7	11.0	11.3	22.7	17.6	20.5	26.5	24.6	25.3
20	10.0	9.7	9.9	13.0	11.0	11.9	21.6	19.9	20.7	25.2	24.2	24.6
21	10.2	9.7	9.9	12.3	11.4	12.0	23.1	19.6	21.1	24.4	23.2	23.7
22	10.8	10.0	10.2	12.5	12.0	12.2	22.6	18.0	21.2	24.4	23.3	23.7
23	11.3	9.9	10.3	13.3	12.3	12.8	20.6	18.8	19.7	24.2	23.2	23.7
24	11.6	10.0	10.8	13.5	12.8	13.1	18.9	17.2	17.8	24.4	23.3	23.8
25	11.8	11.0	11.2	13.5	12.9	13.1	18.3	16.6	17.2	23.8	22.5	23.1
26	11.7	11.2	11.4	14.9	12.8	13.5	17.7	16.9	17.2	25.6	22.8	23.9
27	11.6	11.0	11.3	15.2	13.4	14.5	18.0	17.0	17.4	26.0	23.8	24.7
28	11.0	10.9	11.0	15.1	14.1	14.8	21.5	16.9	18.2	26.0	24.4	25.1
29	---	---	---	15.9	14.4	14.9	19.6	18.4	19.1	25.4	24.3	24.9
30	---	---	---	15.3	14.5	14.9	19.3	18.0	18.7	24.6	23.2	23.7
31	---	---	---	16.4	14.4	14.8	---	---	---	23.3	22.9	23.0
MONTH	11.8	6.2	9.0	16.4	9.6	12.0	23.1	14.6	17.9	26.5	18.1	23.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
Temperature, water, degrees Celsius												
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.9	22.0	22.5	31.3	28.0	28.6	29.6	29.3	29.5	29.8	29.3	29.4
2	---	---	---	30.0	28.6	29.2	29.5	29.2	29.3	29.5	29.3	29.4
3	21.8	20.0	21.0	29.8	28.6	29.1	29.7	29.1	29.3	29.8	29.3	29.4
4	21.7	20.4	21.0	29.5	28.6	28.9	30.0	29.2	29.5	29.6	29.1	29.3
5	23.6	20.6	22.4	30.0	29.0	29.4	30.3	29.6	29.8	29.3	28.7	29.0
6	25.2	22.6	23.5	30.0	28.8	29.2	30.8	29.4	30.0	28.7	27.9	28.3
7	27.4	22.8	24.9	29.8	28.8	29.2	30.2	29.6	29.9	27.9	27.4	27.6
8	27.6	25.3	26.2	29.2	28.4	28.7	29.8	29.3	29.5	27.9	27.1	27.5
9	27.4	25.9	26.7	29.7	28.6	29.1	29.4	29.2	29.3	27.8	27.1	27.4
10	28.2	26.5	27.0	29.8	28.7	29.2	29.6	29.2	29.3	27.5	27.0	27.2
11	27.4	26.4	27.1	29.4	28.4	28.9	29.5	29.3	29.4	27.2	26.7	26.9
12	27.1	26.6	26.8	29.8	28.8	29.2	30.1	29.1	29.4	27.0	26.3	26.6
13	28.6	26.9	27.4	31.0	28.9	29.7	29.8	29.1	29.4	26.9	26.1	26.5
14	30.1	27.2	28.1	30.0	28.5	29.2	30.1	29.4	29.6	27.1	26.2	26.6
15	30.1	28.0	29.0	29.5	28.5	28.9	30.0	29.4	29.7	26.6	26.4	26.5
16	30.4	27.6	28.8	29.7	28.6	29.2	30.2	29.8	30.0	27.3	26.5	26.7
17	28.7	27.2	27.9	29.8	28.7	29.4	31.0	29.4	30.1	27.9	26.5	27.3
18	28.6	27.3	28.1	29.5	28.7	29.2	30.7	29.8	30.3	27.7	27.0	27.4
19	28.4	27.4	27.8	30.4	29.0	29.6	31.0	30.5	30.8	27.5	26.7	27.2
20	27.6	26.7	27.1	30.4	29.2	29.8	31.3	30.5	30.8	27.8	26.9	27.4
21	27.7	26.8	27.2	31.8	28.8	30.1	30.9	30.1	30.6	28.0	26.9	27.5
22	27.4	26.6	27.0	30.7	29.8	30.2	31.5	29.9	30.7	28.4	26.9	27.6
23	27.7	26.7	27.2	30.8	29.5	30.2	31.1	30.5	30.7	28.3	27.8	28.0
24	28.2	26.6	27.1	31.1	30.2	30.6	31.1	30.2	30.5	28.4	27.8	28.1
25	28.1	27.4	27.7	31.7	30.7	31.2	30.4	29.8	30.0	28.4	28.0	28.2
26	28.0	27.0	27.4	31.8	31.0	31.4	30.1	29.5	29.8	28.0	27.7	27.9
27	28.3	27.5	27.8	32.4	31.3	31.7	29.8	29.4	29.5	28.0	27.5	27.7
28	28.4	27.7	28.1	---	---	---	29.8	29.4	29.5	27.6	27.4	27.5
29	28.3	27.6	27.9	---	---	---	30.0	29.4	29.6	28.1	27.1	27.4
30	28.8	28.0	28.4	30.8	30.0	30.4	30.2	29.5	29.8	27.2	26.6	26.9
31	---	---	---	30.0	29.6	29.8	30.3	29.3	29.7	---	---	---
MONTH	---	---	---	---	---	---	31.5	29.1	29.8	29.8	26.1	27.7

