

COOPER RIVER BASIN

021720710 COOPER RIVER AT CUSTOMS HOUSE (AUX) AT CHARLESTON, SC

LOCATION.--Lat 32°46'50'', long 79°55'31'', Charleston County, Hydrologic Unit 03050201, at South Carolina State Ports Authority Dock, 0.25 mi east of Customs House, and at mile 0.6.

PERIOD OF RECORD.--Water years 1987 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (Top): October 1986 to current year.

SPECIFIC CONDUCTANCE (Bottom): October 1986 to current year.

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

WATER TEMPERATURE (Bottom): March 1993 to September 1994 (discontinued).

DISSOLVED OXYGEN (Top): March 1993 to September 1995 (discontinued).

DISSOLVED OXYGEN (Bottom): March 1993 to September 1994 (discontinued).

INSTRUMENTATION.--USGS mini-monitor and data collection platform.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (Top): Maximum, 55,900 microsiemens, Aug. 28, 1990; minimum, 6,520 microsiemens, Sep. 6, 1987.

SPECIFIC CONDUCTANCE (Bottom): Maximum, 64,300 microsiemens, May 5, 1989; minimum, 11,400 microsiemens, Sep. 7, 1987.

WATER TEMPERATURE (Top): Maximum, 32.0°C, Aug. 1, 1993, Aug. 1, 1999; minimum, 6.5°C, Jan. 20-24, 1994.

WATER TEMPERATURE (Bottom): Maximum, 30.0°C, Jul. 18, 19, 25, 1994; minimum, 5.5°C, Jan. 22, 23, 1994.

DISSOLVED OXYGEN (Top): Maximum, 15.3 mg/L, Feb. 10, 1994; minimum, 3.6 mg/L, Jun. 15, 1993.

DISSOLVED OXYGEN (Bottom): Maximum, 13.3 mg/L, Jan. 26, 1994; minimum, 4.0 mg/L, Jul. 22, Aug. 12, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE (Top): Maximum, 53,300 microsiemens, Jun. 4; minimum, 19,100 microsiemens, Oct. 19.

SPECIFIC CONDUCTANCE (Bottom): Maximum, 52,300 microsiemens, May 31; minimum, 23,400 microsiemens, Sep. 19.

WATER TEMPERATURE (Top): Maximum, 31.0°C, July 21, 22; minimum, 7.0°C, Jan. 31, Feb. 1, 2.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	45900	29500	36500	36900	25400	31500	---	---	---	41000	29400	33800
2	44300	26800	35400	42100	27300	35600	---	---	---	43200	30900	35900
3	44200	30000	34800	38700	28500	33500	---	---	---	44400	32000	37100
4	42600	31200	35500	40600	26900	32200	---	---	---	43100	32700	37200
5	44000	28700	35400	40700	22100	31900	---	---	---	43700	32800	37200
6	45500	32600	38400	40500	23300	31300	---	---	---	48000	33400	38200
7	44400	30200	36500	41500	23400	32900	41800	28600	35900	46900	32700	38000
8	44600	27300	36400	42900	23400	33600	45200	31800	36700	46700	32000	37900
9	43700	27900	36100	43100	25600	33000	45100	31300	36200	48000	33400	38900
10	43100	30200	36900	42100	29600	34100	44100	30600	36000	45600	34900	38900
11	43700	32100	36300	40000	24900	32200	44700	29800	35300	42700	32800	36800
12	44000	21100	34700	44300	26800	33300	46100	32000	36400	41700	30300	35300
13	44000	25900	32900	42300	27200	34300	44300	29800	36600	42700	30900	35500
14	41100	24600	31700	40700	27400	33700	41400	31100	36400	41100	30500	34500
15	40600	28900	33000	42500	25500	35500	41900	30800	35600	43700	29200	35300
16	39700	25200	31200	42300	29000	36000	41900	30500	35900	44700	30400	36800
17	31400	23900	28200	42100	29200	36200	41800	31400	35600	45200	32200	38100
18	34000	26100	29400	41500	27900	34900	45500	33700	38400	45600	33400	38900
19	34300	19100	27700	43500	27800	35100	49600	34400	40900	50700	33400	41400
20	33000	20300	27600	45300	29400	36400	49900	34000	41100	48100	32700	39400
21	41400	27800	33100	48100	30300	38800	49300	33200	40700	47900	29800	39100
22	42900	28400	35400	49000	34400	41900	50400	32400	40600	45000	31000	38400
23	42000	29700	34400	49600	29700	40300	50000	31400	40400	47700	32700	40400
24	45000	28700	35100	48900	29200	40900	49500	31000	39400	45900	30300	38100
25	45400	28600	35400	48700	29100	40600	49400	29000	37800	44400	30900	36000
26	45100	25800	35600	---	---	---	47400	30200	36800	39500	27500	32800
27	45200	22800	35300	---	---	---	45700	26100	34700	36600	24100	29700
28	46500	26800	34600	---	---	---	42200	25800	34300	35500	22900	28100
29	45600	28200	34100	---	---	---	40100	26400	31800	37500	22100	28300
30	44300	23700	32200	---	---	---	38200	27600	32400	37800	26300	30700
31	40800	23200	32100	---	---	---	37500	27500	32400	37200	28000	31900
MONTH	46500	19100	33900	49600	22100	35200	50400	25800	36700	50700	22100	36100

COOPER RIVER BASIN

021720710 COOPER RIVER AT CUSTOMS HOUSE (AUX) AT CHARLESTON, SC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	46300	31300	38600	37300	28900	33900	45000	35700	39900	44800	33500	37600
2	44700	29400	37600	42900	30100	36300	45400	35700	40600	43500	32500	37900
3	43700	31500	36800	39600	29100	34000	45500	35800	40200	44800	33900	39000
4	42300	31200	36000	40700	29100	34500	45000	35300	39700	44500	35000	38700
5	43700	31000	36600	40900	29700	34500	46100	35100	40500	44500	34100	38600
6	44100	31700	37600	40900	29300	35800	43200	33400	38500	48200	34600	39800
7	43500	31900	37600	41600	29300	35200	---	---	---	44800	33500	38500
8	---	---	---	42800	30600	36600	---	---	---	44800	34000	38500
9	---	---	---	43100	31600	38200	46100	33600	38700	45000	34300	38900
10	42400	32400	37000	42200	32000	36100	45700	32900	38000	43300	33700	37700
11	42900	31700	36300	41100	31900	36700	45400	32900	37700	41900	32500	36400
12	42600	31900	36400	44500	31800	37100	46300	34300	38900	42500	32000	37000
13	---	---	---	44800	33700	39000	45000	33700	38200	41200	30600	34700
14	---	---	---	43100	35800	39000	42900	33600	37800	40500	30800	34300
15	41200	30100	34500	45100	34600	39700	43900	33000	37700	40900	31800	35900
16	---	---	---	43600	35900	40400	42700	32600	37400	41200	31000	35700
17	---	---	---	43800	36000	39200	43700	33400	38000	42100	32800	37100
18	---	---	---	42800	35600	40100	44900	33900	39300	45700	33500	39100
19	---	---	---	43300	35100	39900	48900	33900	41500	46700	34400	40100
20	---	---	---	44200	34800	40000	48900	34200	40900	47600	35100	41000
21	40600	28300	33300	46700	35400	42500	48800	32900	40700	48800	33900	41800
22	41400	29200	35000	48200	35700	42600	49300	32800	40700	49700	35100	42300
23	40900	28600	33900	48800	35700	42500	49500	32400	41000	50100	35900	42000
24	43200	27900	34900	48000	36400	42700	48800	32300	40100	50100	35100	41900
25	43200	27700	34800	47900	38200	42800	50000	30000	39900	47200	32900	39200
26	43200	27300	34600	47900	35000	41100	48200	32300	38700	40200	30400	35100
27	43300	27300	35300	47100	33300	39400	46800	30400	37800	41100	27700	34700
28	45900	27400	36000	46800	33600	39000	44300	31000	37300	41700	26800	33700
29	45500	28800	35400	45500	34100	39000	42200	29700	36600	40500	25800	34000
30	44300	28800	35200	44700	33700	38900	42700	31700	36700	42400	25800	34700
31	41500	29300	34700	---	---	---	42000	32200	36400	40400	28900	34200
MONTH	46300	27300	35800	48800	28900	38600	50000	29700	38900	50100	25800	37700
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	37900	28900	32600	42700	32300	37100	46400	35800	40100	45500	36000	40200
2	37500	29100	32500	40600	33100	36800	45900	35500	40600	46300	35700	40400
3	---	---	---	44900	33900	39200	46700	36100	40700	50300	35500	41600
4	---	---	---	44400	34300	38600	46300	35400	40400	50800	36300	42700
5	---	---	---	45500	33500	38900	48000	34600	40500	50400	33200	40400
6	---	---	---	44900	32200	38400	47900	35200	40500	50200	33100	39900
7	---	---	---	45000	33000	38800	48500	34100	40100	49200	33300	39400
8	---	---	---	45000	32800	38200	48000	32700	39500	46300	35000	39900
9	---	---	---	45100	32300	37700	46500	31900	38000	48300	33000	39100
10	---	---	---	45800	32000	37600	46800	32100	38700	45200	32500	38200
11	---	---	---	45200	31700	38200	45800	32500	38100	46200	30900	38100
12	---	---	---	45900	31500	37700	45200	33300	38400	45100	31600	38500
13	---	---	---	45600	34600	38800	46400	32800	39400	45500	32300	38000
14	---	---	---	46900	34500	39800	48300	35000	41800	48700	32900	39800
15	---	---	---	47100	34800	40100	48200	36400	41800	48500	33500	41000
16	46700	32500	38500	47700	34800	40800	47600	35500	41100	49700	35200	41600
17	48000	31700	39700	47200	33300	39500	49000	35800	41700	48700	33900	40300
18	50200	32500	40900	49800	31700	41600	48400	34600	41100	47900	33700	40200
19	48400	32700	39500	50900	34100	42700	48900	35800	41900	47000	30000	38600
20	48700	30100	39000	50100	37000	43800	48700	36500	42100	46800	29000	38000
21	48100	30500	39000	47600	34800	41200	48700	37000	41400	46900	31300	38200
22	46900	31400	38800	46700	32200	39200	45500	34000	39800	46500	31900	38100
23	45800	32000	38100	46300	33000	38900	45500	35200	39900	46200	34200	39300
24	43800	31400	37000	46500	32700	38000	44700	36600	40100	45900	36000	40100
25	42400	31600	36100	43900	31100	36400	43800	34100	38700	45800	36700	40500
26	41400	30600	35700	41800	30200	35600	43600	35100	39300	45600	34900	41200
27	41600	32500	36500	44600	30800	38500	44900	35100	40000	45700	34700	40600
28	42300	30300	37200	45000	31200	39200	44000	35300	39300	45400	34400	40400
29	43000	32300	37200	45100	31100	39500	43800	35300	39400	49200	36400	42100
30	---	---	---	45400	33700	39800	44200	35500	39900	51500	36000	43500
31	---	---	---	44800	34200	39700	---	---	---	52300	37000	44700
MONTH	50200	28900	37400	50900	30200	39000	49000	31900	40100	52300	29000	40100

COOPER RIVER BASIN

021720710 COOPER RIVER AT CUSTOMS HOUSE (AUX) AT CHARLESTON, SC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	23.0	24.0	20.0	19.0	19.5	16.5	15.0	15.5	11.5	11.0	11.0
2	24.0	23.0	23.5	20.0	19.5	20.0	15.5	14.5	15.0	12.0	11.0	11.5
3	25.0	23.5	24.0	19.5	18.0	19.0	15.0	14.5	14.5	12.5	11.5	12.0
4	24.5	24.0	24.0	18.5	17.5	18.0	15.5	14.5	15.0	12.5	12.0	12.5
5	24.0	23.5	24.0	19.0	17.5	18.0	15.5	15.0	15.0	13.0	12.0	12.5
6	24.0	23.0	23.5	18.0	17.5	18.0	15.5	15.0	15.0	13.0	12.0	12.5
7	23.5	22.5	23.0	18.0	17.5	18.0	15.0	14.5	14.5	12.5	12.5	12.5
8	23.5	22.0	23.0	18.5	18.0	18.0	15.0	14.5	14.5	12.5	12.0	12.5
9	24.0	22.5	23.0	19.0	18.0	18.5	15.0	14.5	14.5	12.5	12.0	12.5
10	24.0	23.0	23.5	19.5	18.0	18.5	15.0	14.5	14.5	13.0	12.5	12.5
11	24.5	23.5	24.0	19.0	18.5	19.0	15.0	14.5	14.5	13.0	12.5	13.0
12	24.0	23.5	24.0	19.0	18.5	18.5	15.0	14.5	14.5	13.5	12.5	13.0
13	24.0	23.0	23.5	19.0	18.0	18.5	15.0	14.5	15.0	13.5	13.0	13.0
14	24.0	23.0	23.5	19.0	18.0	18.5	15.5	15.0	15.0	13.5	12.0	12.5
15	24.0	23.0	23.5	18.5	18.0	18.5	15.5	14.5	15.0	12.5	12.0	12.0
16	23.5	23.0	23.0	18.5	17.5	18.0	15.5	14.5	15.0	12.5	12.0	12.0
17	23.0	22.5	23.0	18.0	16.5	17.0	15.0	14.5	14.5	12.5	12.0	12.0
18	24.0	22.5	23.0	17.0	16.5	17.0	14.5	14.0	14.5	12.0	11.5	12.0
19	23.5	22.5	23.0	17.0	16.5	17.0	14.5	14.0	14.0	11.5	11.5	11.5
20	24.0	23.0	23.5	17.5	16.5	17.0	14.0	13.5	14.0	11.5	11.0	11.5
21	23.0	22.0	22.5	17.0	17.0	17.0	14.0	13.5	14.0	11.0	10.5	11.0
22	22.5	21.5	22.0	18.0	17.0	17.0	14.0	13.5	13.5	11.0	10.5	10.5
23	22.0	20.5	21.5	18.0	17.0	17.5	13.5	13.0	13.5	10.5	10.0	10.5
24	21.0	20.0	20.5	18.0	17.5	17.5	13.5	13.0	13.0	10.5	10.0	10.0
25	20.5	19.5	20.0	18.0	17.5	18.0	13.0	12.0	12.5	10.0	9.0	9.5
26	20.5	19.0	19.5	18.5	17.5	18.0	12.0	11.5	11.5	9.5	9.0	9.0
27	20.0	19.0	19.5	18.5	17.5	18.0	11.5	11.0	11.5	9.0	8.5	8.5
28	19.5	18.5	19.0	18.5	17.5	18.0	11.5	11.0	11.0	8.5	8.0	8.5
29	19.5	18.5	19.0	18.0	17.5	18.0	11.0	10.5	11.0	8.0	7.5	8.0
30	20.0	18.5	19.0	17.5	16.0	17.0	11.0	10.5	11.0	7.5	7.5	7.5
31	19.5	19.0	19.0	---	---	---	11.0	11.0	11.0	7.5	7.0	7.5
MONTH	25.0	18.5	22.3	20.0	16.0	18.0	16.5	10.5	13.8	13.5	7.0	11.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.0	7.5	15.0	14.0	14.5	18.0	17.5	17.5	21.0	20.0	20.0
2	8.0	7.0	7.5	15.0	14.5	15.0	18.5	17.5	18.0	21.0	20.0	20.5
3	8.0	7.5	8.0	15.5	14.5	15.0	19.0	18.0	18.5	21.5	20.0	20.5
4	8.5	7.5	8.0	16.0	14.5	15.0	19.0	18.0	18.5	21.0	20.5	20.5
5	8.5	7.5	8.0	15.5	14.5	15.0	18.5	17.5	18.0	22.0	20.5	21.0
6	9.0	8.0	8.5	16.0	15.0	15.5	18.5	17.5	18.0	22.5	20.5	21.5
7	9.0	8.0	8.5	16.0	15.5	15.5	18.5	17.5	18.0	23.0	21.0	22.0
8	9.0	8.5	8.5	17.0	15.5	16.0	19.0	18.0	18.0	23.5	21.0	22.0
9	9.5	8.5	9.0	17.5	16.0	16.5	18.0	17.0	17.5	22.5	21.0	21.5
10	9.5	8.5	9.0	17.5	16.5	16.5	18.0	17.0	17.5	23.5	21.5	22.5
11	10.0	9.0	9.5	17.5	16.5	17.0	18.5	17.5	18.0	24.0	22.0	22.5
12	10.0	9.5	10.0	17.0	16.5	17.0	19.0	17.5	18.0	24.5	22.5	23.5
13	10.5	10.0	10.0	16.5	16.0	16.5	18.5	18.0	18.0	24.5	24.0	24.5
14	11.0	10.0	10.5	17.0	15.5	16.0	18.0	17.0	17.5	25.0	24.5	24.5
15	12.0	10.5	11.0	17.0	15.5	16.0	18.5	17.0	17.5	25.0	24.0	24.5
16	12.0	11.0	11.0	17.0	16.0	16.5	19.0	18.0	18.0	24.5	23.5	24.0
17	11.5	11.5	11.5	17.0	16.5	17.0	19.0	18.5	18.5	25.0	23.5	24.0
18	12.0	11.0	11.5	17.0	15.5	16.0	19.0	18.5	19.0	25.0	24.0	24.0
19	12.5	11.5	12.0	16.0	15.0	15.5	19.0	18.0	18.5	25.5	24.0	24.5
20	13.0	12.0	12.5	16.5	15.0	15.5	20.0	18.5	19.0	25.5	24.5	24.5
21	13.0	12.0	12.5	17.0	16.0	16.5	20.0	19.0	19.5	25.5	24.5	25.0
22	13.0	12.0	12.5	17.0	16.5	16.5	20.0	19.0	19.5	25.0	24.5	25.0
23	13.0	12.0	12.5	16.5	16.5	16.5	20.0	19.0	19.5	25.5	24.5	24.5
24	13.5	12.5	13.0	17.0	16.0	16.5	20.0	19.5	19.5	25.5	24.5	25.0
25	13.5	13.0	13.0	17.5	16.5	17.0	19.5	19.5	19.5	26.0	25.0	25.0
26	14.0	13.0	13.5	17.5	16.5	17.0	19.5	19.0	19.0	26.0	25.0	25.5
27	14.5	13.5	14.0	17.5	16.5	17.0	20.0	19.0	19.5	26.5	25.5	26.0
28	14.5	14.0	14.0	17.5	17.0	17.0	19.5	19.5	19.5	26.5	26.0	26.5
29	15.0	14.0	14.5	18.0	17.0	17.5	20.0	19.0	19.5	26.5	25.5	26.0
30	---	---	---	17.5	17.0	17.5	20.0	19.5	19.5	26.0	24.5	25.0
31	---	---	---	18.0	17.5	17.5	---	---	---	25.5	23.5	24.5
MONTH	15.0	7.0	10.7	18.0	14.0	16.3	20.0	17.0	18.5	26.5	20.0	23.6

