

**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02330450 CHATTAHOOCHEE RIVER AT HELEN, GA**

**LOCATION.**—Lat 33°42'03", long 83°43'44" referenced to North American Datum (NAD) of 1983, White County, Hydrologic Unit 03130001, on the downstream side bridge on GA 17 and 75 at Helen, and 1.1 miles downstream from Smith Creek.

**DRAINAGE AREA.**—44.7 square miles.

**COOPERATION.**—U.S. Army Corps of Engineers, Mobile District.

**PERIOD OF RECORD.**—July 17, 2003 to current year.

**CONTINUOUS WATER-QUALITY RECORDS**

**PERIOD OF DAILY RECORD.**—

**WATER TEMPERATURE:** July 17, 2003 to current year.

**INSTRUMENTATION.**—Satellite telemetry with a continuous water temperature thermistor.

**REMARKS.**—Records good.

**EXTREMES FOR PERIOD OF DAILY RECORD.**—

**WATER TEMPERATURE:** Maximum recorded, 24.0°C, July 13, 2004; minimum recorded, 1.4 °C, January 28, 2004.

**EXTREMES FOR CURRENT YEAR.**—

**WATER TEMPERATURE:** Maximum recorded, 24.0°C, July 13; minimum recorded, 1.4 °C, January 28.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02330450 CHATTAHOOCHEE RIVER AT HELEN, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 311  
 LATITUDE 344203 LONGITUDE 0834344 NAD83 DRAINAGE AREA 44.7 CONTRIBUTING DRAINAGE AREA 44.7 DATUM 1404.04 NGVD29

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.8	12.8	13.8	15.0	11.3	13.0	9.1	6.4	7.5	---	---	---
2	14.6	11.8	13.0	15.2	11.6	13.2	8.0	5.8	7.0	---	---	---
3	13.2	10.6	11.8	15.4	11.6	13.3	7.1	6.6	6.8	---	---	---
4	14.1	11.0	12.5	15.0	13.0	14.0	7.1	6.2	6.6	---	---	---
5	14.6	12.2	13.5	16.2	14.8	15.5	7.6	6.6	7.3	---	---	---
6	15.4	14.0	14.6	17.8	15.8	16.6	7.6	5.6	6.4	8.8	4.1	6.4
7	16.6	14.3	15.2	17.2	15.2	16.0	6.8	4.8	5.7	4.1	2.0	3.1
8	16.8	15.0	15.6	15.8	14.3	15.1	7.1	4.6	5.8	4.8	3.0	3.9
9	16.2	15.2	15.6	14.3	11.1	12.8	8.2	5.1	6.6	5.5	4.6	4.9
10	16.6	15.4	15.8	12.0	9.6	10.8	9.6	8.0	8.8	5.3	3.4	4.6
11	16.0	15.2	15.5	13.0	9.6	11.1	8.0	6.0	6.8	4.8	2.3	3.5
12	17.6	14.8	15.9	14.6	11.1	12.7	7.5	5.3	6.4	6.2	3.2	4.5
13	17.4	14.6	15.9	14.0	8.4	11.3	6.8	5.6	6.3	7.6	5.0	6.0
14	17.0	14.3	15.9	10.0	7.1	8.5	7.3	6.4	6.8	7.6	5.5	6.4
15	15.2	12.4	13.8	11.6	8.4	9.9	7.5	5.6	6.5	7.8	5.3	6.6
16	14.3	10.8	12.4	12.2	9.3	10.8	8.0	5.5	6.8	7.0	4.3	5.5
17	13.2	10.8	12.1	14.5	12.0	13.2	8.2	5.1	6.8	6.4	4.6	5.6
18	14.8	11.6	12.9	14.5	13.6	14.0	6.4	4.8	5.7	8.2	6.4	7.2
19	14.8	11.3	13.0	14.5	12.0	13.9	6.0	4.5	5.3	7.0	3.6	5.3
20	15.4	11.8	13.4	12.4	10.8	11.5	4.5	3.2	3.8	4.8	2.1	3.4
21	15.8	12.2	13.9	12.2	9.6	11.0	4.6	2.5	3.6	5.5	2.8	3.9
22	15.6	13.2	14.1	12.2	9.6	11.0	6.0	3.4	4.7	6.0	3.2	4.4
23	14.1	11.3	12.7	12.4	9.8	11.2	7.3	4.5	5.7	4.8	2.1	3.5
24	14.3	11.0	12.4	12.8	8.8	11.7	7.6	5.0	6.8	7.3	2.5	4.9
25	14.3	10.8	12.5	9.0	7.0	7.9	5.3	3.6	4.4	6.2	5.0	5.7
26	14.1	13.0	13.7	9.3	6.8	8.1	5.8	3.8	4.6	5.3	5.0	5.1
27	14.6	12.4	14.0	10.8	8.8	9.6	6.4	3.8	5.0	6.4	3.4	5.2
28	12.4	10.4	11.5	11.8	8.0	10.6	6.8	4.5	5.6	4.0	1.4	2.7
29	13.6	11.0	12.0	8.0	6.0	6.7	7.6	5.6	6.5	5.0	2.3	3.4
30	14.0	10.0	11.9	7.8	5.5	6.6	7.8	5.6	7.0	---	---	---
31	14.5	11.1	12.6	---	---	---	---	---	---	---	---	---
MONTH	17.6	10.0	13.7	17.8	5.5	11.7	---	---	---	---	---	---

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 LATITUDE 344203 LONGITUDE 0834344 NAD83 DRAINAGE AREA 44.7 CONTRIBUTING DRAINAGE AREA 44.7 DATUM 1404.04 NGVD29

Temperature, water, degrees Celsius  
 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	---	---	---	9.3	6.2	7.7	11.1	7.8	9.0	---	---	---
2	---	---	---	10.2	9.1	9.7	9.1	7.1	8.3	---	---	---
3	---	---	---	12.8	9.6	10.9	14.3	7.8	10.5	---	---	---
4	---	---	---	12.8	10.6	11.6	13.4	8.6	10.3	---	---	---
5	---	---	---	11.8	11.3	11.6	13.2	7.0	9.6	---	---	---
6	---	---	---	14.6	11.5	12.7	14.0	7.5	10.3	---	---	---
7	---	---	---	13.4	9.6	11.1	14.5	8.6	11.3	18.8	---	---
8	---	---	---	10.2	7.0	8.4	14.1	10.8	12.1	19.2	14.3	16.3
9	---	---	---	8.2	6.0	7.0	16.4	10.0	12.6	18.6	14.6	16.1
10	---	---	---	10.0	5.6	7.4	12.2	9.8	11.3	19.0	14.5	16.3
11	---	---	---	10.2	5.3	7.6	13.6	10.8	12.1	18.8	14.5	16.1
12	---	---	---	11.0	6.8	8.4	12.4	11.6	11.9	17.2	15.0	16.0
13	---	---	---	9.8	5.8	7.6	12.2	9.1	11.3	17.2	15.6	16.2
14	---	---	---	11.1	7.1	8.8	11.3	7.5	9.1	16.6	15.4	15.9
15	---	---	---	11.8	9.8	10.6	14.0	7.6	---	18.6	15.0	16.4
16	---	---	---	13.8	10.2	11.5	15.2	---	---	18.4	15.0	16.3
17	---	---	---	12.4	8.6	10	16.2	10.0	12.9	19.0	15.2	16.7
18	---	---	---	10.0	7.8	9.0	17.4	11.3	---	19.0	15.4	16.8
19	---	---	---	13.8	8.4	10.6	---	12.0	---	18.0	15.6	16.7
20	---	---	---	13.0	8.4	10.4	16.6	---	---	20.6	15.4	17.7
21	9.6	7.0	8.2	13.0	7.8	10.6	16.4	12.8	---	20.8	16.2	18.1
22	9.1	5.6	7.2	10.4	5.6	7.5	---	---	---	20.0	16.6	17.9
23	7.8	6.0	7.0	10.0	4.5	6.9	---	---	---	20.2	16.2	17.9
24	9.0	7.5	8.0	11.6	5.6	8.2	---	---	---	19.6	15.8	17.5
25	8.6	7.0	8.0	13.4	7.5	10.0	---	---	---	21.0	16.4	18.3
26	7.0	4.6	5.4	14.5	9.0	11.3	---	---	---	20.0	17.2	18.5
27	7.8	5.1	6.2	15.0	9.6	12.0	---	---	---	21.4	17.0	18.8
28	9.0	4.8	6.6	15.8	10.4	12.7	---	---	---	20.4	17.4	18.7
29	8.8	4.8	6.5	16.4	12.0	13.6	---	---	---	19.0	17.0	18.0
30	---	---	---	14.3	11.5	12.5	---	---	---	20.4	17.0	18.4
31	---	---	---	12.4	9.0	10.6	---	---	---	19.6	17.2	18.4
MONTH	---	---	---	16.4	4.5	10.0	---	---	---	---	---	---

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.2	16.0	17.6	19.0	17.8	18.5	22.2	19.4	20.7	19.8	18.8	19.2
2	19.8	14.8	17.2	20.2	17.8	18.7	22.5	20.0	21.0	19.2	18.2	18.8
3	20.2	15.8	17.7	19.8	18.0	18.8	23.4	19.8	21.2	20.6	18.0	19.0
4	21.2	16.8	18.4	19.6	17.8	18.8	22.5	19.6	20.8	20.4	18.0	19.0
5	20.0	15.6	17.5	22.0	18.2	19.8	21.6	19.2	20.2	21.2	17.6	19.0
6	19.8	15.8	17.6	22.2	18.0	19.8	22.5	18.8	20.2	20.4	18.4	19.3
7	18.4	16.4	17.4	22.0	18.6	20.1	20.8	17.0	18.7	19.4	18.6	19.1
8	18.8	17.8	18.2	22.7	18.8	20.3	21.2	16.2	18.4	18.6	17.8	18.3
9	19.4	17.2	18.0	22.7	18.4	20.2	21.2	16.4	18.4	18.8	17.4	18.0
10	21.4	17.0	18.8	23.2	18.8	20.6	20.4	17.2	18.7	19.2	17.6	18.3
11	22.5	17.6	19.6	23.8	19.4	21.2	21.4	17.4	18.9	19.0	17.2	18.1
12	22.0	18.2	19.9	23.4	19.2	20.9	19.8	17.8	18.7	19.0	17.0	18.0
13	19.6	18.4	19.1	24.0	19.2	21.1	20.6	16.4	18.1	18.2	16.8	17.5
14	21.2	18.2	19.3	23.8	19.4	20.8	20.2	15.8	17.8	18.8	16.2	17.3
15	21.8	18.8	20.2	22.7	18.8	20.3	20.4	17.4	18.7	18.2	16.6	17.4
16	22.2	19.2	20.2	20.8	17.2	19.0	20.2	17.4	18.6	19.6	17.8	18.3
17	23.2	19.0	20.6	20.6	18.0	19.2	20.6	17.6	18.8	18.6	16.6	17.4
18	22.5	19.0	20.4	22.7	17.8	19.7	21.6	17.8	19.4	17.0	15.4	16.2
19	23.8	19.0	20.9	22.2	18.0	19.7	22.5	17.8	19.6	16.2	14.1	15.2
20	21.2	18.8	20.0	22.0	17.8	19.6	21.4	18.4	19.8	15.6	13.8	14.7
21	19.4	18.6	19.1	23.0	18.0	20.0	20.6	18.8	19.7	15.8	13.6	14.7
22	21.4	18.6	19.7	23.0	18.4	20.3	20.4	18.0	19.0	15.6	13.2	14.6
23	20.6	18.6	19.4	23.6	19.4	21.1	19.8	18.4	19.1	17.0	14.3	15.7
24	20.2	18.6	19.2	23.2	19.4	21.0	20.8	18.0	19.3	17.6	15.4	16.5
25	20.2	18.2	18.9	21.8	19.6	20.5	21.2	18.6	19.5	17.6	15.8	16.7
26	21.4	18.4	19.5	22.5	19.4	20.5	21.6	18.4	19.8	17.4	15.6	16.5
27	19.6	18.2	18.7	20.8	19.4	20.0	22.2	18.6	20.1	17.0	16.4	16.7
28	19.6	18.0	18.6	23.2	18.8	20.5	22.5	18.8	20.1	18.2	16.8	17.3
29	20.6	17.4	18.7	20.6	19.4	20.0	21.4	19.0	19.9	17.6	15.8	16.6
30	19.0	17.8	18.3	21.6	19.6	20.2	21.2	18.6	19.6	17.0	14.8	15.9
31	---	---	---	22.2	19.4	20.6	22.2	18.4	19.9	---	---	---
MONTH	23.8	14.8	19.0	24.0	17.2	20.1	23.4	15.8	19.4	21.2	13.2	17.3