

Water-Data Report 2009

**02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL**

Apalachicola Basin  
Lower Chattahoochee Subbasin

LOCATION.--Lat 31°15'33", long 85°06'37" referenced to North American Datum of 1927, Early County, GA, Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 miles downstream from Omusee Creek, 2.3 miles south of Columbia, AL, and at mile 46.5.

DRAINAGE AREA.--8,210 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: October 1975 to current year.

GAGE-HEIGHT: October 1975 to current year.

REVISED RECORDS.--WDR-GA-07-1: 2002-06

GAGE.--Satellite transmitter with gate-opening and water-stage recorders. Datum of headwater gage and tail-water gage is 0.00 feet referenced to National Geodetic Vertical Datum (NGVD) of 1929.

COOPERATION.--U.S Army Corps of Engineers-Mobile District, Southern Nuclear Corporation.

REMARKS.--Discharge records good, except periods of estimated record, which are fair. Gage-height records good. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, AL, 2.4 miles upstream.

EXTREMES FOR CURRENT YEAR.--Headwater: Maximum gage-height recorded, 112.69 feet, March 30; minimum gage-height recorded, 100.53 feet, April 24. Tailwater: Maximum gage-height recorded, 111.15 feet, March 30; minimum gage-height recorded, 75.52 feet, July 28.

## 02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,570	1,580	8,850	9,030	3,410	12,400	51,200	6,450	6,950	2,660	2,140	10,200
2	1,190	1,970	14,100	7,950	5,140	22,800	54,700	4,220	3,840	3,190	2,370	6,940
3	1,700	2,870	12,200	4,470	6,830	22,800	55,600	3,900	3,660	3,860	5,330	6,090
4	1,590	5,460	8,510	5,500	6,360	22,800	50,700	7,170	5,760	2,720	4,140	5,530
5	1,610	5,750	7,570	7,940	7,590	22,900	48,000	7,980	7,130	1,850	5,020	3,010
6	1,640	5,140	6,550	10,700	4,760	23,000	45,300	8,260	10,600	3,970	4,860	3,070
7	1,580	3,590	4,760	10,800	2,670	23,100	28,400	9,060	e8,540	4,050	4,160	4,310
8	1,580	2,590	7,940	11,500	3,210	13,500	22,900	13,600	e8,850	2,480	1,940	5,970
9	10,300	2,840	7,570	12,300	4,130	9,900	18,000	8,910	e9,580	2,440	2,120	6,440
10	7,620	4,290	11,800	9,010	4,060	14,800	15,300	11,400	e9,470	3,480	4,010	6,910
11	3,410	4,220	41,100	9,000	4,830	13,200	4,940	7,770	10,500	2,140	3,920	5,720
12	2,810	4,210	65,700	14,200	4,490	8,160	6,320	13,400	5,460	2,170	4,100	3,050
13	3,540	3,840	42,800	12,600	3,940	8,350	20,400	13,700	2,340	3,440	4,220	1,500
14	3,260	4,680	24,200	12,400	3,370	8,860	26,100	8,960	5,220	6,160	2,290	3,660
15	2,350	2,810	23,300	13,200	3,990	8,500	27,300	7,860	e7,170	4,310	2,240	3,480
16	2,470	2,590	21,000	11,900	4,540	17,100	31,800	3,670	7,420	5,820	2,100	4,750
17	2,760	6,480	16,500	e9,620	4,860	43,600	31,700	2,970	6,480	6,500	3,410	4,630
18	1,520	7,500	14,700	e7,860	3,770	47,000	31,700	14,400	3,190	3,960	2,190	10,800
19	1,420	9,570	11,900	e7,970	5,560	41,800	27,200	16,800	e2,760	3,660	2,280	16,000
20	1,380	9,070	4,030	e9,460	5,560	18,100	11,100	9,060	e2,440	4,150	4,860	13,800
21	2,980	6,400	5,880	e6,910	3,600	10,800	13,800	8,080	1,950	2,540	6,370	16,200
22	3,510	6,870	8,670	e6,530	2,650	11,800	13,600	8,020	e2,800	3,190	4,050	23,600
23	3,260	4,090	9,100	7,190	5,910	7,690	7,840	3,660	e3,790	2,700	2,570	31,900
24	6,480	8,630	8,390	5,960	4,680	11,100	8,940	3,800	e3,210	2,950	3,840	39,700
25	2,400	9,680	4,500	4,050	4,150	10,500	3,850	14,100	4,890	2,180	4,720	50,100
26	2,830	9,660	5,520	7,210	4,230	13,200	3,590	18,900	4,520	1,970	4,750	51,300
27	7,670	8,910	5,330	7,550	4,600	27,100	7,620	15,700	2,100	4,070	3,650	49,800
28	7,680	8,120	3,630	7,560	2,580	43,400	9,080	22,300	1,890	4,170	5,130	25,700
29	5,650	4,500	4,760	7,980	---	63,700	7,820	19,000	3,860	2,940	4,750	16,500
30	6,130	5,310	7,660	6,690	---	89,200	8,210	8,970	2,710	3,690	4,960	16,400
31	5,790	---	5,660	5,010	---	77,700	---	6,060	---	1,610	10,200	---
<b>Total</b>	109,680	163,220	424,180	270,050	125,470	768,860	693,010	308,130	159,080	105,020	122,690	447,060
<b>Mean</b>	3,538	5,441	13,680	8,711	4,481	24,800	23,100	9,940	5,303	3,388	3,958	14,900
<b>Max</b>	10,300	9,680	65,700	14,200	7,590	89,200	55,600	22,300	10,600	6,500	10,200	51,300
<b>Min</b>	1,190	1,580	3,630	4,050	2,580	7,690	3,590	2,970	1,890	1,610	1,940	1,500
<b>Cfsm</b>	0.43	0.66	1.67	1.06	0.55	3.02	2.81	1.21	0.65	0.41	0.48	1.82
<b>In.</b>	0.50	0.74	1.92	1.22	0.57	3.48	3.14	1.40	0.72	0.48	0.56	2.03

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2009, BY WATER YEAR (WY)

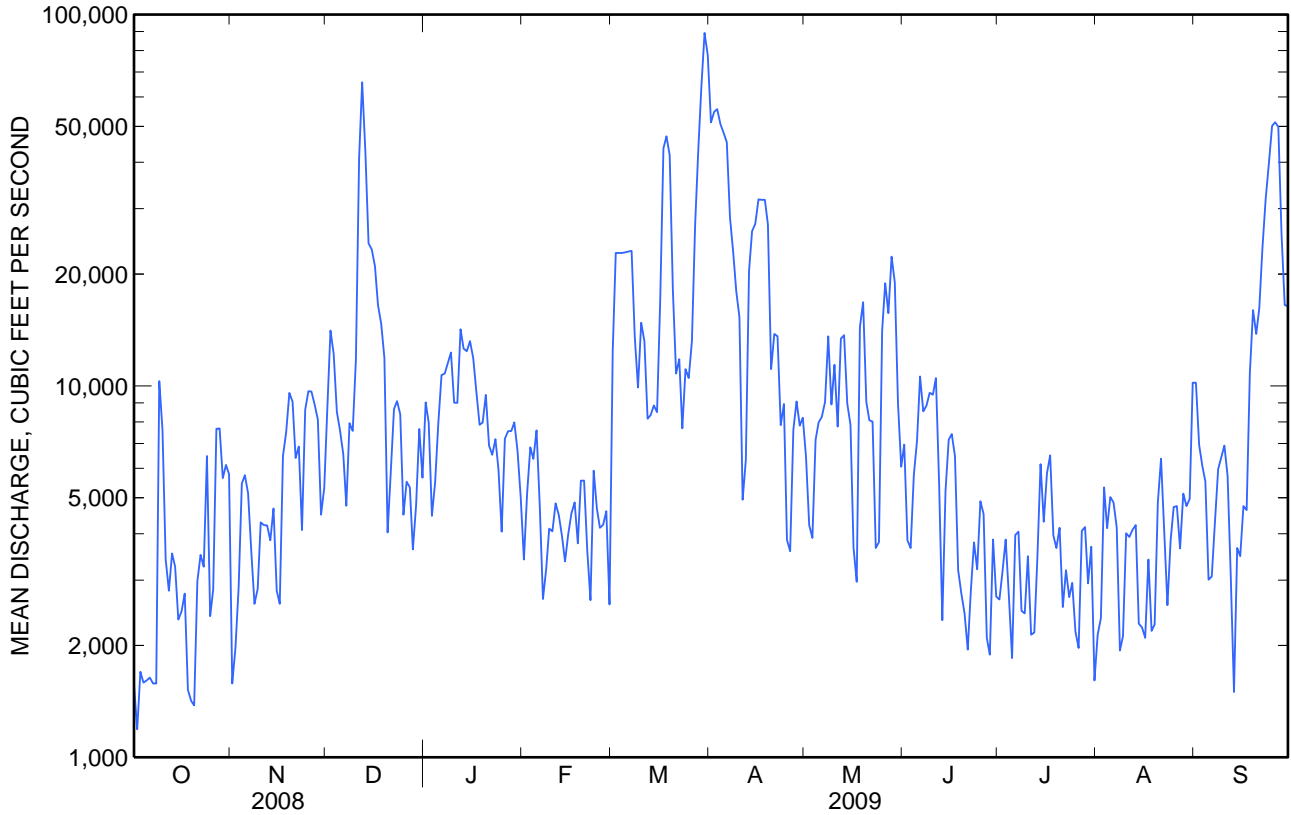
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5,807	7,605	10,450	12,330	15,570	18,560	13,360	9,238	7,297	7,967	6,928	6,308
<b>Max</b>	16,730	23,290	24,660	31,670	33,800	45,900	33,400	22,650	19,670	38,070	16,040	14,900
<b>(WY)</b>	(1976)	(1993)	(1993)	(1978)	(1998)	(1990)	(1979)	(2003)	(2003)	(1994)	(2005)	(2009)
<b>Min</b>	2,346	2,532	2,254	4,372	4,481	6,274	4,957	3,759	2,331	2,425	2,045	2,265
<b>(WY)</b>	(2003)	(2008)	(2008)	(2002)	(2009)	(2004)	(1999)	(2004)	(2008)	(1988)	(1988)	(1986)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1976 - 2009	
<b>Annual total</b>	2,279,060		3,696,450			
<b>Annual mean</b>	6,227		10,130		10,090	
<b>Highest annual mean</b>					16,050	1998
<b>Lowest annual mean</b>					4,184	2002
<b>Highest daily mean</b>	65,700	Dec 12	89,200	Mar 30	195,000	Jul 7, 1994
<b>Lowest daily mean</b>	779	Jul 6	1,190	Oct 2	<sup>a</sup> 0.00	Nov 22, 1987
<b>Annual seven-day minimum</b>	1,480	Sep 27	1,550	Oct 1	1,480	Sep 27, 2008
<b>Maximum peak flow</b>			90,800	Mar 30	202,000	Jul 7, 1994
<b>Maximum peak stage</b>			111.15	Mar 30	123.98	Jul 7, 1994
<b>Annual runoff (cfsm)</b>	0.758		1.23		1.23	
<b>Annual runoff (inches)</b>	10.33		16.75		16.70	
<b>10 percent exceeds</b>	13,500		22,900		20,800	
<b>50 percent exceeds</b>	4,040		6,090		7,740	
<b>90 percent exceeds</b>	1,640		2,440		1,980	

<sup>a</sup> Except for undetermined amount of leakage and due to non-typical operation pattern.

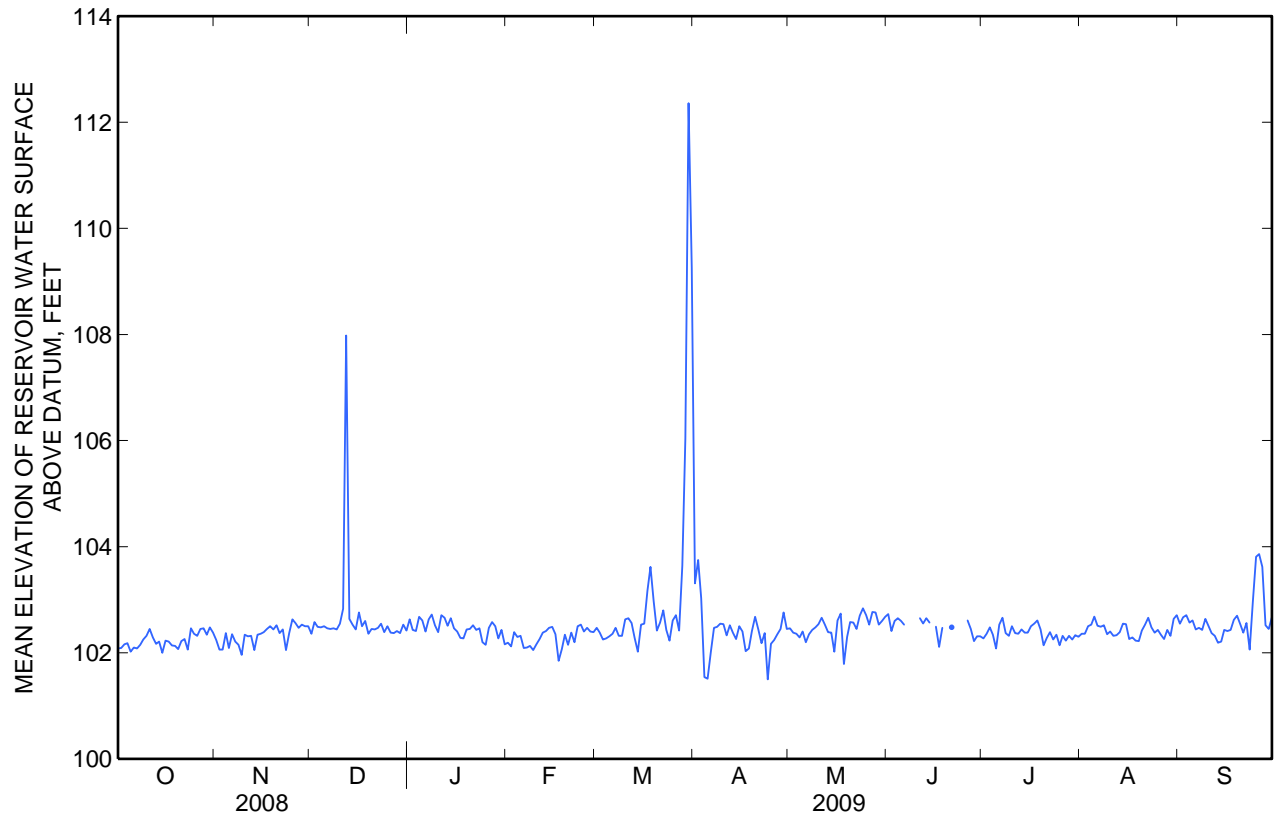


## 02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL—Continued

**ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	102.08	102.24	102.36	102.63	102.19	102.47	103.31	102.46	102.73	102.27	102.36	102.55
2	102.09	102.06	102.58	102.43	102.12	102.38	103.75	102.38	102.41	102.36	102.36	102.67
3	102.16	102.06	102.49	102.41	102.39	102.25	103.03	102.36	102.60	102.48	102.50	102.71
4	102.18	102.37	102.48	102.68	102.30	102.27	101.54	102.29	102.65	102.34	102.53	102.57
5	102.02	102.09	102.50	102.61	102.32	102.31	101.51	102.40	102.60	102.08	102.68	102.61
6	102.10	102.35	102.46	102.40	102.09	102.36	102.01	102.20	102.53	102.53	102.51	102.44
7	102.08	102.21	102.45	102.63	102.10	102.47	102.47	102.35	---	102.66	102.49	102.47
8	102.15	102.15	102.46	102.72	102.13	102.32	102.49	102.43	---	102.37	102.52	102.43
9	102.25	101.96	102.44	102.52	102.05	102.32	102.55	102.48	---	102.32	102.35	102.64
10	102.32	102.34	102.55	102.39	102.16	102.63	102.54	102.54	---	102.50	102.40	102.51
11	102.45	102.31	102.83	102.71	102.26	102.65	102.33	102.66	102.65	102.37	102.32	102.37
12	102.29	102.32	107.98	102.66	102.38	102.56	102.52	102.53	102.55	102.36	102.33	102.32
13	102.17	102.05	102.64	102.51	102.41	102.28	102.38	102.39	102.65	102.44	102.39	102.19
14	102.21	102.34	102.53	102.65	102.47	102.02	102.26	102.38	102.57	102.38	102.55	102.21
15	102.00	102.36	102.44	102.46	102.49	102.53	102.50	102.02	---	102.38	102.54	102.43
16	102.23	102.39	102.76	102.40	102.35	102.55	102.40	102.61	102.49	102.50	102.26	102.41
17	102.21	102.45	102.50	102.28	101.85	103.17	102.03	102.74	102.11	102.55	102.29	102.43
18	102.14	102.50	102.60	102.27	102.07	103.62	102.08	101.79	102.47	102.61	102.23	102.62
19	102.13	102.44	102.36	102.44	102.34	102.97	102.41	102.30	---	102.44	102.22	102.70
20	102.07	102.52	102.45	102.45	102.15	102.42	102.68	102.58	---	102.14	102.42	102.54
21	102.22	102.37	102.44	102.52	102.38	102.57	102.44	102.57	102.48	102.28	102.53	102.38
22	102.26	102.44	102.47	102.43	102.20	102.80	102.18	102.45	---	102.39	102.66	102.56
23	102.06	102.05	102.55	102.46	102.50	102.43	102.37	102.70	---	102.25	102.48	102.06
24	102.46	102.37	102.39	102.20	102.53	102.23	101.50	102.84	---	102.34	102.38	102.97
25	102.36	102.63	102.50	102.15	102.40	102.61	102.17	102.71	---	102.14	102.43	103.81
26	102.32	102.56	102.38	102.47	102.47	102.71	102.24	102.53	102.61	102.32	102.34	103.86
27	102.45	102.47	102.37	102.58	102.40	102.42	102.35	102.77	102.45	102.23	102.26	103.62
28	102.46	102.53	102.41	102.50	102.39	103.64	102.45	102.76	102.22	102.32	102.43	102.52
29	102.34	102.50	102.37	102.27	---	106.04	102.76	102.53	102.31	102.25	102.32	102.45
30	102.48	102.50	102.53	102.43	---	112.36	102.45	102.60	102.31	102.33	102.64	102.67
31	102.38	---	102.42	102.16	---	109.26	---	102.68	---	102.30	102.71	---
<b>Mean</b>	102.23	102.33	102.67	102.47	102.28	103.21	102.39	102.48	---	102.36	102.43	102.62
<b>Max</b>	102.48	102.63	107.98	102.72	102.53	112.36	103.75	102.84	---	102.66	102.71	103.86
<b>Min</b>	102.00	101.96	102.36	102.15	101.85	102.02	101.50	101.79	---	102.08	102.22	102.06

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL—Continued



## 02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL—Continued

## CLIMATOLOGICAL RECORDS

COOPERATION.--U.S Army Corps of Engineers-Mobile District, Southern Nuclear Corporation.

PERIOD OF RECORD.--September 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage.

**PRECIPITATION, TOTAL, INCHES**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.30	0.11	0.00	0.00	0.00	0.09	0.09
2	0.00	0.00	0.00	0.05	0.18	0.00	1.76	0.00	0.00	0.02	0.36	1.76
3	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.10	0.14	0.00	0.00	0.00
4	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.38	0.64	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.18	2.63	1.22	0.00
6	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.97	0.00	0.00
7	0.68	0.04	0.00	0.37	0.00	0.00	0.00	0.02	0.00	0.12	0.00	0.00
8	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.06	0.01	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
10	0.00	0.00	4.69	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	1.93	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
12	0.00	0.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.02
13	0.00	0.21	0.00	0.00	1.45	0.00	2.16	0.00	0.09	0.00	0.01	0.02
14	0.00	0.25	0.00	0.00	1.50	0.10	0.01	0.00	0.37	0.00	0.00	0.32
15	0.00	0.00	0.00	0.00	0.06	0.75	0.00	0.31	0.00	0.26	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.39	0.00	1.39	0.05	0.44
17	0.11	0.00	0.00	0.00	0.00	0.01	0.00	2.05	0.00	0.47	0.00	0.00
18	0.00	0.00	0.00	0.24	0.02	0.00	0.00	0.04	0.00	0.00	0.50	0.14
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.15
20	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.03
21	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.12	0.06
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
23	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
24	1.32	0.06	0.00	0.03	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
25	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.48	0.00	0.18	0.00	0.00	0.13	0.39
27	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.03	0.00	0.26	0.00
28	0.00	0.36	0.04	0.52	0.76	6.28	0.00	0.00	0.00	0.29	0.44	0.02
29	0.00	0.37	0.12	0.00	---	0.00	0.00	0.00	0.00	0.17	0.00	0.00
30	0.00	0.57	0.00	0.00	---	0.00	0.00	0.00	0.00	0.14	0.00	0.00
31	0.00	---	0.00	0.00	---	1.68	---	0.00	---	0.38	0.00	---
<b>Total</b>	4.80	2.03	7.04	2.24	3.97	10.95	4.06	5.11	1.46	6.91	4.20	4.44

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, AL—Continued

