

Water-Data Report 2010

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN

Lower Cumberland Basin
Harpeth Subbasin

LOCATION.--Lat 35°54'42", long 87°07'51" referenced to North American Datum of 1927, Williamson County, TN, Hydrologic Unit 05130204, on downstream left bank wingwall of the bridge on South Harpeth Road, 1.4 due west from Pewitt Chapel, 3 mi southwest from confluence with Kelley Creek.

DRAINAGE AREA.--2.32 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 2004 to September 2006. June 2007 to May 2010 (discontinued).

GAGE.--Data collection platform and crest-stage gage.

REMARKS.--Records good except for estimated daily discharges which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, maximum gage height, 7.28 ft, May 2, 2010; minimum discharge, 0.66 ft³/s, Sept. 24, 25, 30, 2007, minimum daily discharge, 0.79 ft³/s, Sept. 25, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, May 2, maximum gage height, 7.28 ft; minimum discharge, 1.4 ft³/s, November 28, minimum daily discharge, 1.6 ft³/s, November 22, 25-29.

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.0	6.2	1.7	3.9	4.4	3.0	4.5	---	---	---	---	---
2	2.2	4.4	2.8	3.7	6.2	3.1	4.1	---	---	---	---	---
3	1.9	3.7	2.6	3.4	6.6	2.9	4.7	---	---	---	---	---
4	2.6	3.2	2.0	3.3	6.9	2.7	3.9	---	---	---	---	---
5	4.3	2.7	1.9	3.0	29	2.6	3.7	---	---	---	---	---
6	3.5	2.5	1.7	3.0	11	2.6	3.5	---	---	---	---	---
7	3.1	2.5	1.7	3.0	7.1	2.6	3.4	---	---	---	---	---
8	2.3	2.4	25	2.7	6.1	2.6	4.1	---	---	---	---	---
9	3.4	2.2	15	2.6	14	2.6	3.3	---	---	---	---	---
10	e3.3	2.2	6.1	2.6	7.7	2.6	3.0	---	---	---	---	---
11	2.4	2.1	4.6	2.6	6.3	5.9	3.0	---	---	---	---	---
12	2.3	2.0	4.0	2.6	5.5	11	3.0	---	---	---	---	---
13	2.3	2.0	6.8	2.6	4.8	7.2	3.0	---	---	---	---	---
14	3.9	1.9	5.1	2.6	4.5	5.9	2.9	---	---	---	---	---
15	13	1.9	4.4	2.6	4.4	5.0	2.7	---	---	---	---	---
16	5.0	1.9	4.0	2.9	3.9	4.4	2.6	---	---	---	---	---
17	3.7	2.0	3.8	16	3.8	4.1	2.6	---	---	---	---	---
18	2.9	1.9	3.8	8.2	3.6	3.8	2.6	---	---	---	---	---
19	2.6	1.8	3.7	6.6	3.5	3.6	2.6	---	---	---	---	---
20	2.3	1.7	3.4	9.7	3.5	3.4	2.6	---	---	---	---	---
21	2.3	1.7	3.2	15	3.8	9.3	2.6	---	---	---	---	---
22	2.4	1.6	3.0	11	5.2	7.1	2.6	---	---	---	---	---
23	6.2	1.7	3.0	7.6	4.3	5.7	2.6	---	---	---	---	---
24	3.4	1.7	3.4	14	4.0	4.9	73	---	---	---	---	---
25	2.6	1.6	5.7	9.8	3.7	7.4	13	---	---	---	---	---
26	2.3	1.6	4.3	7.2	3.5	6.8	6.1	---	---	---	---	---
27	3.9	1.6	3.9	6.1	3.4	5.8	4.6	---	---	---	---	---
28	3.9	1.6	3.6	5.5	3.1	8.5	3.7	---	---	---	---	---
29	2.9	1.6	3.4	5.2	---	6.5	3.3	---	---	---	---	---
30	6.7	2.6	3.5	4.9	---	5.6	3.1	---	---	---	---	---
31	27	---	4.6	4.5	---	4.9	---	---	---	---	---	---
Total	132.6	68.5	145.7	178.4	173.8	154.1	180.4	---	---	---	---	---
Mean	4.28	2.28	4.70	5.75	6.21	4.97	6.01	---	---	---	---	---
Max	27	6.2	25	16	29	11	73	---	---	---	---	---
Min	1.9	1.6	1.7	2.6	3.1	2.6	2.6	---	---	---	---	---
Cfsm	1.84	0.98	2.03	2.48	2.68	2.14	2.59	---	---	---	---	---
In.	2.13	1.10	2.34	2.86	2.79	2.47	2.89	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)

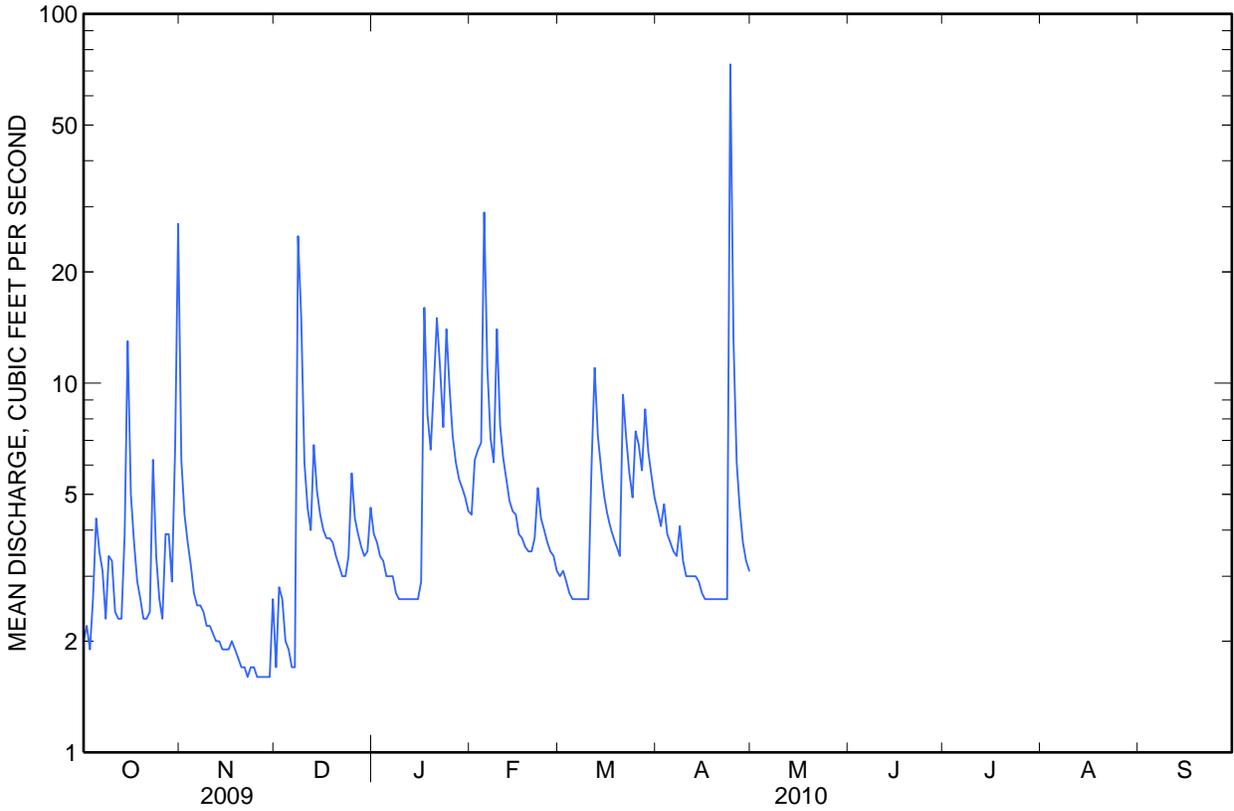
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.65	2.60	4.85	5.55	4.36	5.31	6.88	4.75	1.95	1.85	1.77	1.94
Max	4.56	5.68	10.6	7.80	6.21	9.77	10.4	7.97	2.24	2.36	2.93	4.08
(WY)	(2005)	(2005)	(2005)	(2006)	(2010)	(2008)	(2008)	(2009)	(2005)	(2009)	(2005)	(2009)
Min	1.33	1.31	2.29	3.57	2.77	3.14	4.26	2.92	1.46	1.47	1.15	1.14
(WY)	(2009)	(2009)	(2006)	(2008)	(2009)	(2006)	(2009)	(2005)	(2007)	(2006)	(2006)	(2006)

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Years 2004 - 2010	
Annual total	1,360.7			
Annual mean	3.73		3.68	
Highest annual mean			4.78	2005
Lowest annual mean			2.89	2006
Highest daily mean	53	May 1	120	Mar 19, 2008
Lowest daily mean	1.1	Jul 2	0.79	Sep 25, 2007
Annual seven-day minimum	1.1	Aug 26	0.84	Sep 29, 2007
Maximum peak stage			7.28	May 2, 2010
Instantaneous low flow			^a 0.66	Sep 24, 2007
Annual runoff (cfsm)	1.61		1.59	
Annual runoff (inches)	21.82		21.56	
10 percent exceeds	6.2		5.9	
50 percent exceeds	2.5		2.2	
90 percent exceeds	1.3		1.2	

^a Also occurred Sept. 25, 30, 2007.



03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 2004 to September 2006. June 2007 to September 2008. October 2009 to May 2010 (discontinued).

WATER TEMPERATURE: September 2004 to September 2006. June 2007 to September 2008. October 2009 to May 2010 (discontinued).

TURBIDITY: September 2004 to September 2006. June 2007 to September 2009. October 2009 to May 2010 (discontinued).

INSTRUMENTATION.--Water-quality monitor since September 9, 2004.

REMARKS.--Temperature records are good. Specific conductance records are good. Turbidity records are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 308 microsiemens, Nov. 20, 2004, Nov 14, 2008; minimum, 51 microsiemens, May 1, 2010.

WATER TEMPERATURE: Maximum, 27.6°C, July 25, 2005; minimum, 0.2°C, January 10, 2010.

TURBIDITY: Maximum, >1,000 FNU, several days; minimum, <1 FNU, many days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 290 microsiemens, December 3; minimum, 51 microsiemens, May 1.

TEMPERATURE: Maximum, 24.8°C, April 5; minimum, 0.2°C, January 10.

TURBIDITY: Maximum, >1,000 FNU, several days; minimum, <1 FNU, many days.

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	235	191	210	171	148	160	260	233	250	229	212	221
2	235	221	230	190	171	181	280	236	255	223	209	218
3	237	227	233	197	187	191	290	265	275	222	209	218
4	236	209	228	201	189	196	266	243	257	223	209	219
5	255	224	245	204	193	199	260	241	254	225	210	220
6	246	216	236	206	194	202	259	239	252	226	209	220
7	244	235	239	210	195	204	259	237	250	223	208	218
8	239	227	234	213	197	207	265	107	215	239	213	223
9	262	216	235	217	197	209	184	111	164	226	209	219
10	262	237	244	220	198	212	193	184	187	230	208	221
11	244	233	239	220	202	214	200	192	195	228	208	218
12	243	231	238	221	204	215	204	196	200	223	206	217
13	242	234	238	223	203	216	210	184	196	224	204	218
14	260	228	247	224	203	217	204	194	199	223	201	216
15	252	127	197	227	203	218	207	197	202	222	199	215
16	215	206	211	227	206	221	209	197	205	222	198	213
17	218	211	214	229	208	221	211	198	206	270	170	183
18	220	212	217	228	210	223	211	198	207	183	175	178
19	222	215	219	232	207	223	214	204	210	185	176	181
20	---	---	---	233	209	225	217	202	211	194	160	176
21	---	---	---	234	209	226	219	203	213	168	127	157
22	---	---	---	235	212	227	220	202	214	163	143	155
23	---	---	---	241	216	232	222	203	216	172	163	167
24	226	217	222	242	218	235	225	190	214	172	143	152
25	224	214	221	244	221	237	240	195	224	162	151	156
26	228	216	222	245	222	237	221	207	215	170	160	164
27	228	184	218	246	224	239	218	201	212	172	164	169
28	225	210	218	248	224	240	220	206	215	178	166	173
29	226	215	222	249	225	241	222	206	216	179	164	172
30	227	151	213	271	226	252	222	206	215	183	165	174
31	151	96	125	---	---	---	237	210	227	189	175	183
Month	---	---	---	271	148	217	290	107	218	270	127	195

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	222	180	194	202	187	196	190	171	179	211	51	110
2	241	195	205	202	188	196	194	181	187	---	---	---
3	197	186	192	202	191	198	200	171	190	---	---	---
4	189	179	185	204	189	199	201	187	195	---	---	---
5	188	120	139	206	190	200	205	188	197	---	---	---
6	160	145	153	206	191	201	207	190	199	---	---	---
7	166	160	162	208	189	200	210	190	202	---	---	---
8	170	159	166	209	190	202	212	194	204	---	---	---
9	159	128	144	209	189	201	213	196	206	---	---	---
10	160	152	157	207	188	200	215	197	207	---	---	---
11	167	159	163	244	158	206	218	196	209	---	---	---
12	172	164	168	201	152	173	223	201	213	---	---	---
13	177	169	173	173	166	169	226	200	216	---	---	---
14	180	173	177	177	170	174	228	200	217	---	---	---
15	184	175	178	181	174	177	225	197	216	---	---	---
16	188	178	183	185	177	181	228	200	217	---	---	---
17	190	181	186	188	180	184	228	200	218	---	---	---
18	195	184	189	190	178	186	231	203	220	---	---	---
19	196	184	192	193	183	188	235	203	222	---	---	---
20	199	186	193	194	184	190	235	207	225	---	---	---
21	204	173	192	195	125	170	238	209	227	---	---	---
22	232	193	204	149	136	143	241	211	231	---	---	---
23	197	187	193	156	149	151	241	210	230	---	---	---
24	196	187	192	160	152	155	240	97	190	---	---	---
25	196	185	192	164	145	156	184	155	173	---	---	---
26	198	186	193	161	153	156	191	184	187	---	---	---
27	198	186	193	166	159	162	196	188	191	---	---	---
28	201	186	195	173	150	161	202	194	197	---	---	---
29	---	---	---	166	158	161	206	198	201	---	---	---
30	---	---	---	173	165	168	211	199	205	---	---	---
31	---	---	---	175	169	172	---	---	---	---	---	---
Month	241	120	180	244	125	180	241	97	206	---	---	---

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	20.1	13.6	16.5	15.7	11.4	13.0	10.8	5.4	7.9	7.8	4.2	6.1
2	19.8	15.1	17.5	16.2	10.5	12.8	11.6	8.4	10.1	6.2	2.6	4.0
3	18.7	13.4	15.7	15.9	10.5	12.7	9.5	7.7	8.6	5.8	2.0	3.2
4	15.0	13.8	14.4	16.2	9.7	12.3	8.9	6.2	7.4	5.6	1.2	2.8
5	16.1	14.5	15.3	15.2	9.6	11.6	8.9	4.3	6.4	5.3	1.0	2.5
6	17.6	15.8	16.6	15.5	8.8	11.5	7.9	3.5	5.7	5.9	0.5	2.8
7	19.1	14.6	16.7	16.5	10.5	12.7	9.0	6.3	7.9	4.3	1.2	3.5
8	20.3	13.8	16.8	17.3	10.2	13.2	11.0	8.4	9.3	3.3	0.8	1.9
9	21.2	17.4	19.2	16.3	12.1	13.9	11.2	7.7	9.9	4.0	1.4	2.4
10	17.4	14.4	15.6	15.7	12.7	13.9	8.8	5.2	6.8	5.0	0.2	2.0
11	17.8	12.8	14.8	16.2	10.6	13.0	8.6	4.2	5.8	5.3	0.8	3.2
12	17.4	14.2	15.5	15.0	8.7	11.2	8.2	4.6	6.6	5.6	1.9	3.6
13	16.6	15.5	16.0	15.5	8.4	11.4	10.7	8.1	9.6	7.5	0.8	3.4
14	17.4	16.0	16.5	15.5	8.9	11.7	14.2	10.2	12.0	7.7	1.5	4.4
15	16.2	14.6	15.7	16.9	9.8	12.8	12.0	6.5	9.4	10.3	3.6	6.1
16	14.6	12.6	13.6	15.7	10.4	13.2	9.4	5.9	6.9	8.4	4.6	6.5
17	13.1	11.2	12.3	13.9	10.4	12.5	9.4	5.1	7.2	8.3	4.9	6.6
18	14.6	9.8	11.7	11.5	9.8	10.6	9.6	7.6	8.5	11.2	6.8	8.5
19	15.6	9.3	11.9	14.5	9.2	11.3	8.8	7.0	8.1	11.8	7.2	9.4
20	---	---	---	14.3	7.9	10.7	8.4	5.7	7.0	11.2	9.8	10.2
21	---	---	---	14.5	8.8	11.2	10.0	4.8	6.7	11.6	8.9	10.2
22	---	---	---	12.3	9.2	10.8	10.8	5.4	7.7	10.2	9.5	9.9
23	---	---	---	12.6	11.3	11.9	11.1	7.8	9.3	12.4	9.6	10.4
24	15.8	11.8	13.9	14.3	11.3	12.4	12.1	9.2	10.4	11.2	9.5	10.1
25	16.4	10.3	12.7	13.8	8.8	10.9	10.7	6.0	8.4	9.8	6.8	8.4
26	16.8	10.4	13.0	10.2	7.2	8.7	9.3	5.3	6.7	7.9	5.7	6.9
27	14.1	12.6	13.5	11.2	5.9	8.1	8.7	4.9	6.6	9.8	5.0	7.1
28	15.2	12.8	14.2	13.2	6.2	9.1	7.8	4.0	5.5	9.8	6.1	8.0
29	15.6	11.5	13.5	12.3	8.7	10.7	8.3	4.9	5.9	6.1	0.9	4.3
30	18.0	14.7	16.4	11.7	6.8	10.1	8.3	5.4	6.9	5.1	2.2	4.0
31	15.7	12.8	14.3	---	---	---	9.0	7.4	8.2	8.7	1.6	4.4
Month	---	---	---	17.3	5.9	11.7	14.2	3.5	7.9	12.4	0.2	5.7

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	8.5	2.6	5.4	10.6	5.9	7.6	22.7	11.1	15.6	17.4	15.4	16.6
2	10.1	6.2	7.3	8.4	5.8	6.9	21.2	11.4	15.4	---	---	---
3	10.8	6.0	7.5	7.3	5.6	6.3	21.8	13.1	15.8	---	---	---
4	8.0	6.3	7.2	13.4	4.9	7.8	23.0	11.0	15.9	---	---	---
5	8.2	6.0	7.3	13.7	3.7	7.5	24.8	14.5	18.3	---	---	---
6	7.8	6.4	7.0	14.5	3.8	7.9	24.5	14.3	18.1	---	---	---
7	7.3	5.1	6.4	14.3	5.0	8.9	20.4	15.1	17.2	---	---	---
8	7.0	4.0	5.6	17.5	7.2	11.2	16.3	12.2	15.1	---	---	---
9	6.0	4.2	5.1	13.8	8.5	10.8	21.3	9.8	14.3	---	---	---
10	8.1	4.1	5.6	16.1	11.3	13.1	22.4	9.6	14.7	---	---	---
11	8.8	3.9	5.7	15.4	10.1	12.2	23.2	10.5	15.7	---	---	---
12	7.2	4.7	5.6	13.1	9.7	10.7	23.6	11.4	16.4	---	---	---
13	8.0	5.0	6.2	11.2	9.6	10.2	24.3	12.2	17.1	---	---	---
14	7.3	5.7	6.5	11.8	9.3	10.1	24.7	12.9	17.7	---	---	---
15	6.7	4.0	5.0	10.5	9.3	9.8	24.4	13.7	18.0	---	---	---
16	6.5	3.8	4.8	11.2	9.2	9.9	23.5	13.8	17.8	---	---	---
17	9.6	3.2	5.9	11.5	9.4	10.2	20.4	13.6	16.7	---	---	---
18	11.4	3.6	6.6	15.6	8.2	11.2	20.7	10.8	14.8	---	---	---
19	12.3	3.8	7.1	18.8	7.4	11.9	17.9	11.5	14.3	---	---	---
20	13.6	5.0	8.2	16.4	8.6	11.8	17.9	13.0	15.1	---	---	---
21	13.9	6.2	9.4	11.4	9.0	10.4	20.5	11.3	15.1	---	---	---
22	10.4	8.1	9.3	11.2	8.3	9.5	19.4	12.5	15.3	---	---	---
23	8.1	6.1	7.4	18.0	9.2	12.2	23.3	13.1	17.4	---	---	---
24	7.4	3.9	5.7	18.4	8.8	12.7	17.3	15.2	16.5	---	---	---
25	10.6	2.8	5.7	13.2	10.9	11.8	18.9	14.0	15.7	---	---	---
26	11.4	3.3	6.3	16.9	9.3	11.8	14.9	13.7	14.2	---	---	---
27	11.7	3.4	6.7	18.3	7.8	12.1	16.6	12.0	14.0	---	---	---
28	13.0	5.5	8.2	13.1	10.8	11.7	18.9	10.8	14.1	---	---	---
29	---	---	---	17.7	9.2	12.4	21.4	11.6	15.7	---	---	---
30	---	---	---	19.0	8.7	12.9	21.4	14.2	17.3	---	---	---
31	---	---	---	20.9	9.2	13.9	---	---	---	---	---	---
Month	13.9	2.6	6.6	20.9	3.7	10.6	24.8	9.6	16.0	---	---	---

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	3.3	1.2	2.9	3.5	2.0	2.4	1.8	1.0	1.3	1.1	0.3	0.5
2	7.0	1.4	1.9	2.1	1.4	1.7	3.8	1.2	1.7	0.6	0.2	0.3
3	2.7	1.8	2.1	5.9	1.2	1.4	2.0	1.1	1.3	2.1	0.2	0.3
4	12	2.1	2.4	1.3	1.0	1.1	1.8	0.7	1.1	0.7	0.1	0.2
5	12	3.9	4.5	6.2	0.9	1.0	1.8	0.7	1.0	0.5	0.1	0.2
6	32	3.9	4.4	1.3	0.7	0.9	1.2	0.7	0.8	0.5	0.2	0.3
7	20	8.5	10	1.3	0.7	0.9	0.9	0.6	0.7	0.5	0.2	0.3
8	10	7.3	7.7	1.3	0.7	0.8	260	0.6	73	0.5	0.3	0.3
9	---	---	---	1.5	0.6	0.7	70	3.7	6.2	0.5	0.1	0.3
10	---	---	---	7.7	0.6	0.7	3.8	1.9	2.5	0.7	0.1	0.1
11	---	---	---	6.3	0.6	0.7	2.0	1.3	1.5	0.3	0.1	0.1
12	---	---	---	1.1	0.6	0.7	2.5	0.9	1.1	0.4	0.1	0.2
13	---	---	---	4.2	0.5	0.7	43	1.9	5.8	0.8	0.1	0.2
14	15	1.4	3.2	2.1	0.4	0.6	2.9	1.5	2.0	1.1	0.1	0.2
15	390	2.2	22	0.8	0.4	0.5	1.7	1.0	1.3	1.0	0.2	0.4
16	5.0	2.9	3.4	1.2	0.4	0.6	1.4	0.5	0.7	16	0.4	0.6
17	3.2	2.3	2.5	1.0	0.5	0.6	0.7	0.4	0.5	130	5.7	24
18	2.7	1.9	2.2	0.7	0.4	0.5	0.8	0.4	0.5	5.7	3.3	3.8
19	2.4	1.9	2.1	0.7	0.4	0.5	1.1	0.3	0.5	3.9	2.6	2.8
20	---	---	---	1.5	0.5	0.6	2.2	0.4	0.5	160	2.5	11
21	---	---	---	1.0	0.3	0.6	1.3	0.3	0.4	560	6.3	12
22	---	---	---	1.3	0.5	0.8	0.7	0.2	0.3	18	4.6	5.9
23	---	---	---	1.3	0.6	0.9	0.6	0.2	0.4	7.0	3.7	4.3
24	4.9	1.4	1.8	2.2	0.9	1.5	52	0.2	0.4	870	3.8	19
25	1.9	1.3	1.6	2.0	1.2	1.5	28	1.4	6.9	10	4.2	7.0
26	7.2	1.6	1.8	1.9	1.3	1.5	1.4	0.6	0.8	7.8	3.2	3.9
27	79	1.8	2.1	1.9	1.2	1.4	0.9	0.4	0.5	8.5	2.7	3.2
28	32	2.5	4.2	1.9	1.1	1.4	0.7	0.2	0.4	4.1	2.4	2.8
29	2.7	2.0	2.2	1.8	1.1	1.3	0.8	0.2	0.3	3.0	2.1	2.3
30	---	---	---	11	1.3	2.0	1.2	0.1	0.3	3.4	2.0	2.1
31	---	---	---	---	---	---	2.4	0.8	1.3	5.8	1.7	2.0
Max	---	---	---	11	2.0	2.4	260	3.7	73	870	6.3	24
Min	---	---	---	0.7	0.3	0.5	0.6	0.1	0.3	0.3	0.1	0.1

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	2.3	1.8	2.0	2.4	1.4	1.8	4.1	1.7	2.5	930	0.9	120
2	17	1.9	2.2	3.0	1.8	2.1	3.6	2.0	2.4	---	---	---
3	5.8	3.1	3.5	2.8	1.7	1.9	25	2.7	3.5	---	---	---
4	17	2.4	3.1	3.7	1.9	2.2	3.4	2.3	2.8	---	---	---
5	180	10	38	3.2	1.7	2.2	5.1	2.5	2.9	---	---	---
6	11	4.9	5.8	2.4	1.5	1.9	5.5	2.4	2.8	---	---	---
7	5.0	3.3	3.8	2.9	1.6	1.9	8.6	2.4	2.9	---	---	---
8	4.6	2.7	3.2	2.7	1.8	2.2	11	2.3	3.1	---	---	---
9	43	3.5	16	2.8	1.3	2.2	3.8	1.9	2.2	---	---	---
10	7.5	3.3	4.6	2.4	1.5	1.8	94	1.6	2.2	---	---	---
11	6.5	2.7	3.6	280	2.2	13	3.6	1.5	1.9	---	---	---
12	4.7	2.4	3.2	350	5.2	41	2.6	1.3	1.6	---	---	---
13	6.5	2.1	2.7	9.5	5.0	5.7	2.0	1.1	1.5	---	---	---
14	4.1	2.0	2.4	7.1	4.2	4.6	1.6	0.9	1.2	---	---	---
15	5.4	1.8	2.2	170	4.3	15	1.6	0.9	1.2	---	---	---
16	2.4	1.6	1.8	59	8.2	10	1.6	0.8	1.1	---	---	---
17	2.9	1.6	1.8	56	3.5	8.6	1.5	0.8	1.1	---	---	---
18	2.9	1.0	1.7	88	3.5	6.1	1.8	0.8	1.2	---	---	---
19	2.0	0.8	1.3	50	4.7	7.8	7.2	0.4	0.9	---	---	---
20	40	0.9	1.8	20	4.9	6.1	1.4	0.4	0.7	---	---	---
21	58	1.3	1.8	840	4.6	22	1.7	0.4	0.8	---	---	---
22	41	2.9	5.3	57	7.3	11	1.5	0.6	0.8	---	---	---
23	5.5	2.1	2.5	25	5.4	7.2	3.2	0.6	1.2	---	---	---
24	3.0	1.8	2.3	16	4.9	6.8	970	1.1	31	---	---	---
25	3.2	1.8	2.0	130	5.5	39	23	4.4	6.9	---	---	---
26	6.9	1.7	2.1	35	6.8	12	4.8	2.1	3.3	---	---	---
27	2.7	1.7	2.2	38	5.3	7.6	2.7	1.3	1.7	---	---	---
28	3.0	1.4	1.9	170	6.3	23	1.7	1.0	1.3	---	---	---
29	---	---	---	15	5.5	6.8	1.8	0.7	1.1	---	---	---
30	---	---	---	82	4.6	6.8	1.9	0.8	1.0	---	---	---
31	---	---	---	10	1.6	2.8	---	---	---	---	---	---
Max	180	10	38	840	8.2	41	970	4.4	31	---	---	---
Min	2.0	0.8	1.3	2.4	1.3	1.8	1.4	0.4	0.7	---	---	---

03433637 SOUTH HARPETH CREEK NEAR PEWITT CHAPEL, TN—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---