

Water-Data Report 2008

03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN

Upper Tennessee Basin
Emory Subbasin

LOCATION.--Lat 36°06'11", long 84°43'06" referenced to North American Datum of 1927, Morgan County, TN, Hydrologic Unit 06010208, on right bank 200 yards upstream of Lilly Bridge, 0.1 mi downstream of Little Clear Creek, 3.8 mi west-southwest of Lancing, and at mile 1.6.

DRAINAGE AREA.--170 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1997 to current year.

REVISED RECORDS.--WDR TN-04-1: 1998(P), 1999(P), 2002(P), 2003(P).

GAGE.--Data collection platform. Datum of gage is 1,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 18,000 ft³/s, gage height 14.95 ft, from rating curve extended above 16,800 ft³/s, May 5, 2003, minimum discharge 0.16 ft³/s, Oct. 8, 9, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,280 ft³/s, gage height, 9.95 ft, Mar. 4; minimum discharge, 0.30 ft³/s, Sept. 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.78	5.0	75	198	240	465	243	179	34	4.5	58	9.7
2	0.71	4.4	62	157	271	526	293	157	30	3.6	37	8.0
3	0.63	3.6	66	129	236	418	393	143	28	3.1	24	6.8
4	0.62	3.1	82	112	251	1,760	1,790	143	29	3.9	16	5.8
5	0.63	3.2	85	106	535	1,490	2,230	125	25	5.5	12	4.9
6	0.58	4.6	73	102	876	777	973	110	21	5.0	9.3	4.2
7	0.54	4.2	63	98	1,010	811	640	99	18	4.1	8.4	3.5
8	0.49	4.1	59	92	597	1,290	479	92	15	3.6	7.3	3.0
9	0.60	3.9	61	106	428	876	377	93	13	3.2	6.6	2.6
10	0.70	3.8	62	201	327	687	313	100	15	7.0	5.5	2.7
11	0.71	3.6	63	524	261	549	277	92	12	9.6	4.6	2.4
12	0.78	3.3	60	387	232	442	295	96	10	111	3.9	2.2
13	0.62	4.6	62	285	273	361	249	96	8.8	167	3.3	2.0
14	0.52	13	70	229	275	315	217	85	8.0	45	2.8	1.9
15	0.49	83	76	191	240	478	201	93	7.1	21	2.4	1.9
16	0.50	82	77	162	220	1,110	180	146	6.4	13	2.2	1.7
17	0.77	53	89	161	267	715	161	160	5.6	9.4	2.0	1.5
18	0.83	37	86	196	631	535	146	138	4.9	7.3	1.9	1.3
19	1.6	29	80	176	449	554	144	122	4.3	5.8	2.0	1.2
20	1.8	23	75	155	348	1,150	144	104	3.5	5.0	1.9	1.1
21	1.5	18	71	126	289	742	128	87	3.0	4.2	1.8	1.1
22	1.3	17	68	130	266	550	116	73	2.7	4.2	1.6	0.98
23	17	15	72	135	282	420	107	63	2.7	11	1.3	0.86
24	49	16	101	134	244	340	99	55	2.8	12	1.1	0.74
25	25	16	105	120	223	290	93	49	2.9	7.2	1.0	0.59
26	17	286	97	111	236	249	86	45	2.5	54	4.6	0.53
27	13	367	91	109	278	219	83	46	2.6	42	42	0.53
28	10	202	104	102	254	198	184	55	3.4	29	54	0.49
29	8.1	128	481	99	250	189	244	49	4.8	75	29	0.42
30	6.8	95	356	159	---	208	204	42	5.3	58	18	0.35
31	5.7	---	254	224	---	200	---	37	---	66	13	---
Total	169.30	1,531.4	3,226	5,216	10,289	18,914	11,089	2,974	331.3	800.2	378.5	74.99
Mean	5.46	51.0	104	168	355	610	370	95.9	11.0	25.8	12.2	2.50
Max	49	367	481	524	1,010	1,760	2,230	179	34	167	58	9.7
Min	0.49	3.1	59	92	220	189	83	37	2.5	3.1	1.0	0.35
Cfsm	0.03	0.30	0.61	0.99	2.09	3.59	2.17	0.56	0.06	0.15	0.07	0.01
In.	0.04	0.34	0.71	1.14	2.25	4.14	2.43	0.65	0.07	0.18	0.08	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.2	168	323	527	595	435	446	341	162	82.5	34.8	96.2
Max	215	598	1,094	962	1,597	964	1,118	1,223	782	349	104	540
(WY)	(2005)	(2005)	(2005)	(1999)	(2003)	(2002)	(1998)	(2003)	(1997)	(1999)	(1998)	(2004)
Min	0.81	5.07	32.4	141	183	190	206	80.3	5.72	7.78	4.65	1.67
(WY)	(2000)	(1999)	(2000)	(2000)	(2007)	(2003)	(2001)	(2001)	(2007)	(2006)	(1997)	(1997)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1997 - 2008	
Annual total	52,788.25		54,993.69			
Annual mean	145		150		267	
Highest annual mean					459	2003
Lowest annual mean					138	2000
Highest daily mean	3,130	Mar 2	2,230	Apr 5	12,600	Feb 16, 2003
Lowest daily mean	0.49	Oct 8	0.35	Sep 30	0.17	Oct 8, 1999
Annual seven-day minimum	0.58	Oct 3	0.52	Sep 24	0.23	Oct 2, 1999
Maximum peak flow			4,280	Mar 4	^a 18,000	May 5, 2003
Maximum peak stage			9.95	Mar 4	14.95	May 5, 2003
Instantaneous low flow			0.30	Sep 30	^b 0.16	Oct 8, 1999
Annual runoff (cfsm)	0.851		0.884		1.57	
Annual runoff (inches)	11.55		12.03		21.37	
10 percent exceeds	374		389		550	
50 percent exceeds	53		62		100	
90 percent exceeds	1.1		1.5		3.4	

^a From rating curve extended above 16,800 ft³/s.

^b Also occurred Oct. 9, 1999.

