

Water-Data Report 2007

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC

Upper Tennessee Basin
Upper Little Tennessee Subbasin

LOCATION.--Lat 35°09'00", long 83°22'47" referenced to North American Datum of 1983, Macon County, NC, Hydrologic Unit 06010202, on left bank 600 ft upstream from Owenby Branch, 0.5 mi upstream from Cartoogechaye Creek, 2 mi north of Prentiss, and at river mile 119.5.

DRAINAGE AREA.--140 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1236: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred August 30, 31, September 16, 17, 2000.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1898 reached a stage of about 15 ft, from profiles by Tennessee Valley Authority.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	135	205	742	1,770	325	408	292	203	141	129	133	148
2	132	198	543	857	339	1,330	327	200	162	247	123	105
3	130	182	404	633	328	656	277	203	144	154	124	93
4	130	174	351	537	304	493	337	207	137	137	125	88
5	127	171	320	589	294	424	289	240	127	127	132	82
6	129	168	299	670	286	388	270	263	123	121	155	78
7	122	217	283	635	289	364	260	215	119	182	128	77
8	122	360	265	1,330	283	346	254	204	118	194	117	77
9	123	247	256	853	276	330	250	199	115	176	109	74
10	120	217	248	688	270	319	246	194	111	345	103	72
11	119	210	242	600	263	311	247	194	110	223	101	71
12	123	206	235	543	261	300	264	193	140	214	96	75
13	115	187	242	505	268	291	248	195	202	163	95	71
14	113	182	230	472	309	287	249	181	152	153	91	231
15	113	389	222	454	270	282	405	176	193	143	88	276
16	114	1,460	216	434	259	613	305	174	163	140	85	126
17	560	683	210	401	253	440	272	175	137	136	83	105
18	451	475	205	395	250	369	261	165	141	139	85	96
19	242	384	202	390	242	341	255	161	177	138	80	92
20	378	336	198	365	243	329	244	158	327	137	78	89
21	257	305	197	417	277	318	238	154	167	147	76	88
22	219	284	542	692	255	307	232	151	141	147	74	89
23	196	266	532	475	239	298	226	148	131	189	73	85
24	181	252	353	427	240	290	224	148	126	144	78	82
25	172	239	387	399	321	282	224	146	123	135	124	80
26	166	229	422	376	313	275	222	144	132	129	94	79
27	210	221	359	363	281	271	246	141	124	136	180	77
28	488	216	326	351	262	267	219	136	119	142	100	76
29	293	213	304	332	---	264	213	133	183	138	91	72
30	241	410	293	326	---	262	207	131	154	150	92	71
31	219	---	501	317	---	257	---	129	---	175	153	---
Total	6,240	9,286	10,129	17,596	7,800	11,712	7,803	5,461	4,439	5,030	3,266	2,925
Mean	201	310	327	568	279	378	260	176	148	162	105	97.5
Max	560	1,460	742	1,770	339	1,330	405	263	327	345	180	276
Min	113	168	197	317	239	257	207	129	110	121	73	71
Cfsm	1.44	2.21	2.33	4.05	1.99	2.70	1.86	1.26	1.06	1.16	0.75	0.70
In.	1.66	2.47	2.69	4.68	2.07	3.11	2.07	1.45	1.18	1.34	0.87	0.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	248	305	395	482	548	587	544	418	339	262	239	235
Max	1,078	815	841	1,008	1,252	1,199	1,014	999	717	810	695	1,030
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1952)	(1964)	(1976)	(2005)	(2005)	(1974)	(2004)
Min	70.5	101	153	120	222	244	172	157	110	94.8	78.3	80.2
(WY)	(1955)	(1955)	(2001)	(1981)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1944 - 2007	
Annual total	94,893		91,687			
Annual mean	260		251		383	
Highest annual mean					588	1949
Lowest annual mean					173	1986
Highest daily mean	1,460	Nov 16	1,770	Jan 1	7,830	Sep 17, 2004
Lowest daily mean	82	Aug 10	71	Sep 11	52	Aug 30, 2000
Annual seven-day minimum	91	Aug 5	74	Sep 7	58	Sep 14, 2000
Maximum peak flow			2,070	Jan 1	12,200	Oct 4, 1964
Maximum peak stage			5.65	Jan 1	17.30	Oct 4, 1964
Instantaneous low flow			68	Sep 14	^a 52	Sep 17, 1999
Annual runoff (cfsm)	1.86		1.79		2.74	
Annual runoff (inches)	25.21		24.36		37.17	
10 percent exceeds	450		423		689	
50 percent exceeds	223		214		305	
90 percent exceeds	115		94		128	

^a See Remarks.

