

Water-Data Report 2008

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 and current water year also occurred August 23, 24, 2008.

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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	69	90	117	321	777	295	349	235	186	108	83	121
2	69	88	112	260	529	276	346	226	188	100	74	112
3	69	86	123	220	381	264	330	222	177	97	70	105
4	73	83	114	202	347	1,120	345	222	169	95	65	97
5	83	82	108	190	318	1,770	453	212	160	96	61	93
6	82	83	103	182	387	819	449	206	154	135	58	89
7	76	81	100	173	433	862	389	201	151	118	55	88
8	73	81	100	166	347	893	359	200	147	109	62	84
9	71	81	101	168	312	687	341	232	143	158	53	90
10	73	81	101	187	285	592	328	213	139	128	52	104
11	67	80	98	686	266	533	320	294	137	114	49	92
12	62	79	96	380	255	488	335	260	135	105	46	98
13	65	80	96	292	285	449	304	216	132	110	48	98
14	66	83	98	253	254	427	293	207	135	119	54	88
15	65	161	99	227	237	540	285	210	141	98	53	82
16	65	115	229	209	231	670	275	297	141	98	47	80
17	68	95	150	331	268	495	269	237	146	91	57	84
18	71	91	127	346	742	450	264	220	125	84	55	83
19	107	89	120	290	411	633	290	242	121	81	50	78
20	104	87	116	256	344	967	275	228	118	82	47	75
21	78	86	170	225	314	645	257	292	120	77	41	74
22	74	202	168	229	382	558	251	225	125	100	37	73
23	191	156	298	255	356	500	244	219	120	85	37	70
24	403	119	299	227	316	457	240	228	112	79	37	68
25	194	111	210	208	298	431	235	203	106	75	127	65
26	138	155	187	202	390	416	232	194	103	80	772	65
27	117	225	169	195	368	399	229	188	124	82	957	72
28	105	157	262	187	318	383	329	188	110	72	311	71
29	98	137	431	184	298	385	274	211	138	106	198	66
30	94	125	418	274	---	370	244	186	120	110	153	68
31	90	---	473	217	---	351	---	180	---	80	134	---
Total	3,060	3,269	5,393	7,742	10,449	18,125	9,134	6,894	4,123	3,072	3,943	2,533
Mean	98.7	109	174	250	360	585	304	222	137	99.1	127	84.4
Max	403	225	473	686	777	1,770	453	297	188	158	957	121
Min	62	79	96	166	231	264	229	180	103	72	37	65
Cfs/m	0.71	0.78	1.24	1.78	2.57	4.18	2.17	1.59	0.98	0.71	0.91	0.60
In.	0.81	0.87	1.43	2.06	2.78	4.82	2.43	1.83	1.10	0.82	1.05	0.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	246	302	392	479	545	587	540	415	336	259	237	233
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 2007		Water Year 2008		Water Years 1944 - 2008	
Annual total	77,754		77,737			
Annual mean	213		212		380	
Highest annual mean					588	1949
Lowest annual mean					173	1986
Highest daily mean	1,770	Jan 1	1,770	Mar 5	7,830	Sep 17, 2004
Lowest daily mean	62	Oct 12	37	Aug 22	37	Aug 22, 2008
Annual seven-day minimum	65	Oct 11	43	Aug 18	43	Aug 18, 2008
Maximum peak flow			2,480	Mar 5	12,200	Oct 4, 1964
Maximum peak stage			6.49	Mar 5	17.30	Oct 4, 1964
Instantaneous low flow			^a 36	Aug 22	^a 36	Aug 22, 2008
Annual runoff (cfsm)	1.52		1.52		2.72	
Annual runoff (inches)	20.66		20.66		36.91	
10 percent exceeds	389		405		685	
50 percent exceeds	155		154		303	
90 percent exceeds	79		70		126	

^aSee Remarks