



Water-Data Report 2010

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, maximum discharge.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred August 23, 24, 2008. Minimum discharge for current water year also occurred September 22.

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

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—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	442	999	522	748	749	506	455	404	757	212	142	103
2	413	779	1,150	697	856	533	437	401	543	204	124	99
3	395	680	1,290	660	820	526	422	748	492	200	123	96
4	364	612	873	634	755	503	408	604	423	193	118	91
5	538	566	764	608	2,100	484	398	500	391	184	116	87
6	459	531	689	587	1,810	469	387	454	370	177	127	87
7	452	504	644	572	1,220	461	378	421	339	172	193	85
8	400	481	636	558	1,040	456	462	396	307	168	126	86
9	371	459	1,800	530	962	452	549	370	297	168	115	88
10	380	717	1,130	514	918	446	421	362	313	182	121	85
11	351	2,780	896	502	837	475	398	376	285	165	115	105
12	457	1,340	802	498	800	539	385	364	275	205	133	184
13	488	977	932	482	772	635	372	350	265	200	115	108
14	518	833	863	473	732	540	362	333	251	214	126	94
15	628	750	789	463	747	502	355	334	253	169	122	89
16	586	691	726	457	702	474	353	415	300	160	136	85
17	493	649	685	1,070	666	456	341	372	381	172	118	85
18	443	1,340	868	785	642	446	331	339	268	160	119	83
19	407	1,050	1,330	648	623	430	322	316	251	164	112	81
20	387	863	934	599	607	417	324	301	243	150	116	79
21	366	778	821	743	594	425	331	307	229	149	324	77
22	350	733	759	764	659	793	311	308	227	143	398	76
23	380	721	714	663	622	572	304	286	247	151	172	96
24	1,160	666	684	1,100	592	514	370	274	223	136	138	82
25	679	632	1,900	2,380	566	486	1,380	284	223	132	129	78
26	556	603	1,330	1,230	546	480	766	281	368	131	125	151
27	695	575	1,030	974	536	448	576	266	301	157	138	407
28	1,130	550	909	859	521	523	496	277	255	e140	144	445
29	763	532	832	796	---	612	451	271	248	137	125	201
30	651	536	779	914	---	514	423	271	225	123	114	437
31	765	---	790	810	---	478	---	739	---	124	107	---
Total	16,467	23,927	28,871	23,318	22,994	15,595	13,268	11,724	9,550	5,142	4,431	3,950
Mean	531	798	931	752	821	503	442	378	318	166	143	132
Max	1,160	2,780	1,900	2,380	2,100	793	1,380	748	757	214	398	445
Min	350	459	522	457	521	417	304	266	223	123	107	76
Cfsm	3.79	5.70	6.65	5.37	5.87	3.59	3.16	2.70	2.27	1.18	1.02	0.94
In.	4.38	6.36	7.67	6.20	6.11	4.14	3.53	3.12	2.54	1.37	1.18	1.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2010, BY WATER YEAR (WY)

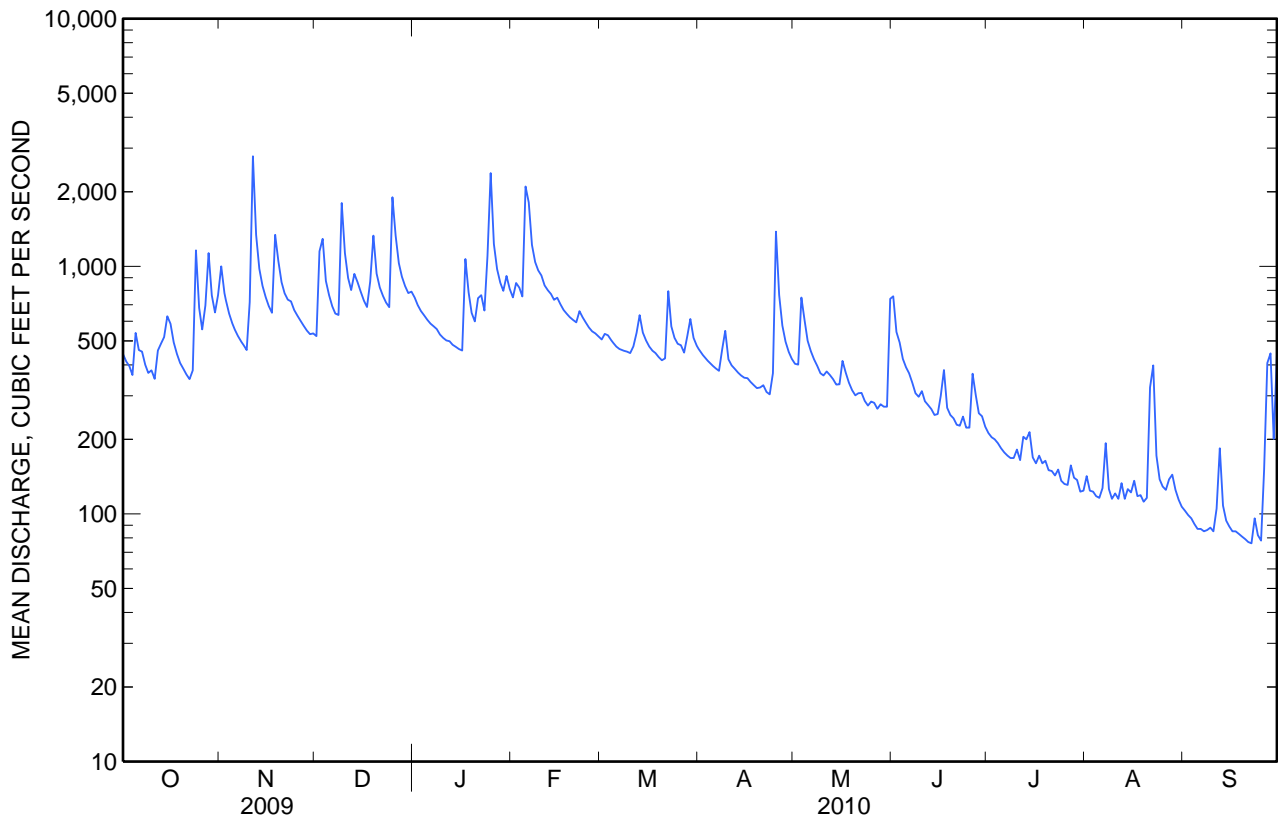
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	248	306	399	481	544	582	537	416	336	257	234	237
Max	1,078	815	931	1,008	1,252	1,199	1,014	999	717	810	695	1,030
(WY)	(1965)	(1980)	(2010)	(1946)	(1990)	(1952)	(1964)	(1976)	(2005)	(2005)	(1974)	(2004)
Min	70.5	97.1	153	120	210	244	172	157	110	94.8	78.3	80.2
(WY)	(1955)	(2009)	(2001)	(1981)	(2009)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1954)

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1944 - 2010	
Annual total	165,354		179,237			
Annual mean	453		491		381	
Highest annual mean					588	1949
Lowest annual mean					173	1986
Highest daily mean	5,050	Sep 22	2,780	Nov 11	7,830	Sep 17, 2004
Lowest daily mean	111	Aug 16	76	Sep 22	37	Aug 22, 2008
Annual seven-day minimum	120	Aug 10	81	Sep 16	43	Aug 18, 2008
Maximum peak flow			3,320	Nov 11	12,200	Oct 4, 1964
Maximum peak stage			6.94	Nov 11	17.30	Oct 4, 1964
Instantaneous low flow			^a 73	Sep 21	^a 36	Aug 22, 2008
Annual runoff (cfsm)	3.24		3.51		2.72	
Annual runoff (inches)	43.94		47.63		36.96	
10 percent exceeds	845		863		689	
50 percent exceeds	347		443		303	
90 percent exceeds	147		122		125	

^a See Remarks



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1958, 1960-62, 1968-73, 2010.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**[ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius]

Date	Sample start time	Medium name	Sample type	Discharge, instantaneous, ft³/s (00061)	Temperature, water, °C (00010)	Sampling method (82398)	Suspended sediment concentration, mg/L (80154)
11-04-2009	1115	Surface water	Regular	613	10.9	EWI	12
12-14-2009	1446	Surface water	Regular	851	9.0	EWI	19
04-07-2010	1145	Surface water	Regular	381	15.1	EWI	12
08-21-2010	1845	Surface water	Regular	628	22.2	EWI	785
09-23-2010	2001	Surface water	Regular	92	22.0	EWI	6
09-27-2010	1145	Surface water	Regular	317	18.1	EWI	101
09-28-2010	1145	Surface water	Regular	608	16.8	EWI	304