

Water-Data Report 2010

03505550 NANTAHALA RIVER NEAR HEWITT, NC

Upper Tennessee Basin
Upper Little Tennessee Subbasin

LOCATION.--Lat 35°18'18", long 83°39'08" referenced to North American Datum of 1983, Swain County, NC, Hydrologic Unit 06010202, on left bank, 1,655 ft downstream from bridge on U.S. Highway 74, 0.2 mi southwest of Hewitt, and 2.5 mi northwest of Beachertown.

DRAINAGE AREA.--145 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,910 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 1,840 ft³/s by logarithmic plotting. Minimum discharge for period of record and current water year affected by regulation from Nantahala Dam, 12.5 mi upstream. Minimum discharge for current water year also occurred September 25.

03505550 NANTAHALA RIVER NEAR HEWITT, 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	814	276	841	398	892	767	243	498	498	270	257	256
2	809	341	997	e390	962	740	688	442	463	268	251	256
3	803	504	998	e380	948	736	469	694	508	265	250	255
4	636	483	927	e300	904	705	468	545	468	262	249	281
5	239	478	889	e230	1,680	e533	464	500	389	261	256	281
6	160	487	853	e200	1,660	531	462	176	386	263	252	255
7	154	480	824	196	1,310	532	391	525	383	291	251	203
8	134	474	841	e195	1,110	260	385	730	306	261	244	203
9	128	527	1,820	e209	991	363	527	726	325	263	244	203
10	150	772	1,110	e190	e967	363	539	582	331	264	248	202
11	133	1,550	533	e340	e943	145	518	585	323	257	250	285
12	167	616	483	373	921	313	571	370	306	296	257	275
13	155	1,090	627	341	e901	379	575	421	316	276	277	208
14	164	1,020	1,110	e780	884	362	566	310	294	270	259	210
15	282	976	1,080	820	878	358	574	323	288	245	247	208
16	284	939	1,030	826	e861	333	505	331	285	264	271	207
17	234	903	1,000	905	851	322	470	327	282	264	269	207
18	205	939	1,040	879	841	307	468	315	277	256	259	254
19	176	894	1,020	855	834	399	269	358	317	262	283	203
20	162	867	981	822	e829	442	269	465	278	261	257	202
21	148	844	958	861	825	416	268	500	278	262	344	201
22	139	827	935	852	858	311	266	501	281	256	304	203
23	148	808	910	834	846	274	256	488	279	251	277	253
24	166	699	893	1,030	837	278	334	496	273	250	328	252
25	135	277	1,350	1,350	830	276	693	496	276	251	262	255
26	131	272	1,190	1,080	e826	366	839	360	277	248	262	280
27	206	269	1,100	982	822	432	816	324	267	249	260	319
28	261	266	1,050	887	818	416	766	342	296	250	262	316
29	211	361	1,010	874	---	285	753	329	268	253	260	271
30	191	887	864	935	---	370	743	323	276	251	261	320
31	215	---	419	908	---	427	---	450	---	266	257	---
Total	7,940	20,126	29,683	20,222	26,829	12,741	15,155	13,832	9,794	8,106	8,208	7,324
Mean	256	671	958	652	958	411	505	446	326	261	265	244
Max	814	1,550	1,820	1,350	1,680	767	839	730	508	296	344	320
Min	128	266	419	190	818	145	243	176	267	245	244	201

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	293	384	507	626	418	434	437	450	376	343	353	377
Max	427	671	958	854	958	660	608	776	685	753	581	830
(WY)	(2007)	(2010)	(2010)	(2006)	(2010)	(2008)	(2005)	(2009)	(2005)	(2005)	(2005)	(2009)
Min	174	40.6	159	324	220	262	255	259	242	218	211	207
(WY)	(2008)	(2009)	(2006)	(2008)	(2007)	(2006)	(2007)	(2007)	(2007)	(2006)	(2006)	(2007)

03505550 NANTHALA RIVER NEAR HEWITT, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2005 - 2010	
Annual total	206,447		179,960			
Annual mean	566		493		388	
Highest annual mean					493	2010
Lowest annual mean					309	2008
Highest daily mean	1,830	Jan 7	1,820	Dec 9	1,830	Jan 7, 2009
Lowest daily mean	69	Feb 15	128	Oct 9	29	Nov 6, 2008
Annual seven-day minimum	113	Feb 9	146	Oct 7	30	Nov 1, 2008
Maximum peak flow			^a 2,770	Dec 9	^a 2,770	Dec 9, 2009
Maximum peak stage			^a 4.83	Dec 9	^a 4.83	Dec 9, 2009
Instantaneous low flow			^a 38	Sep 24	^a 15	Sep 21, 2006
10 percent exceeds	949		937		816	
50 percent exceeds	517		341		290	
90 percent exceeds	209		208		160	

^a See Remarks.

