

Water-Data Report 2008

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. Elevation of gage is 1,910 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred September 23, 25, 26, 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	158	143	482	449	356	436	280	383	270	240	238	238
2	157	137	492	488	298	431	288	281	227	238	230	225
3	158	189	256	375	262	426	435	274	258	241	227	229
4	158	134	41	372	274	981	749	273	349	239	231	251
5	159	132	50	373	227	1,120	689	272	347	239	237	222
6	234	135	45	369	270	949	499	273	346	254	237	254
7	159	140	138	353	260	905	422	262	344	247	237	258
8	157	114	143	349	245	907	554	265	342	241	236	255
9	159	139	151	354	443	855	611	293	245	271	236	263
10	158	138	198	275	432	828	560	299	245	251	235	184
11	157	139	142	757	234	790	543	316	244	245	235	183
12	159	139	143	559	229	792	340	290	243	241	234	182
13	241	138	145	565	243	772	309	384	243	249	235	277
14	160	139	149	417	272	773	427	383	245	244	233	278
15	169	212	150	424	266	896	409	503	249	227	371	285
16	161	147	198	289	265	914	410	318	239	234	239	278
17	161	136	263	320	335	850	408	382	256	236	233	285
18	161	130	49	299	490	819	403	381	236	234	233	278
19	175	138	51	285	376	935	422	387	235	231	231	179
20	240	135	221	279	339	892	401	183	231	230	231	227
21	162	135	240	266	238	700	399	455	233	232	230	177
22	162	208	59	188	294	542	386	545	245	237	229	174
23	178	161	103	194	336	516	365	541	275	240	229	178
24	228	145	83	182	211	497	378	518	234	234	228	179
25	173	142	70	169	207	300	313	531	233	231	243	145
26	167	167	355	169	294	286	302	527	234	245	659	178
27	244	436	362	164	268	278	333	344	234	235	783	277
28	163	421	586	162	439	269	436	299	235	233	708	178
29	162	416	509	168	435	286	400	274	266	244	683	180
30	144	445	559	237	---	268	401	361	248	234	687	176
31	158	---	520	190	---	258	---	360	---	235	514	---
Total	5,382	5,530	6,953	10,040	8,838	20,471	12,872	11,157	7,831	7,432	10,012	6,673
Mean	174	184	224	324	305	660	429	360	261	240	323	222
Max	244	445	586	757	490	1,120	749	545	349	271	783	285
Min	144	114	41	162	207	258	280	183	227	227	227	145

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	324	402	388	590	322	436	400	369	362	368	340	297
Max	427	616	840	854	391	660	608	537	685	753	581	527
(WY)	(2007)	(2007)	(2005)	(2006)	(2006)	(2008)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
Min	174	184	159	324	220	262	255	259	242	218	211	207
(WY)	(2008)	(2008)	(2006)	(2008)	(2007)	(2006)	(2007)	(2007)	(2007)	(2006)	(2006)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2005 - 2008	
Annual total	95,413		113,191			
Annual mean	261		309		323	
Highest annual mean					333	
Lowest annual mean					309	
Highest daily mean	999	Jan 1	1,120	Mar 5	1,340	Jan 18, 2006
Lowest daily mean	41	Dec 4	41	Dec 4	41	Dec 4, 2007
Annual seven-day minimum	109	Dec 4	109	Dec 4	99	Dec 1, 2005
Maximum peak flow			1,700	Mar 4	2,010	May 20, 2005
Maximum peak stage			3.79	Mar 4	4.33	May 20, 2005
Instantaneous low flow			^a 27	Sep 22	^a 15	Sep 21, 2006
10 percent exceeds	415		541		558	
50 percent exceeds	239		246		257	
90 percent exceeds	143		146		162	

^aSee Remarks.