

Water-Data Report 2008

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC

Upper Tennessee Basin
Tuckasegee Subbasin

LOCATION.--Lat 35°23'04", long 83°17'30" referenced to North American Datum of 1983, Jackson County, NC, Hydrologic Unit 06010203, on old truss bridge near left bank, 60 ft upstream from bridge on Secondary Road 1392, 0.1 mi upstream from Barkers Creek and at river mile 27.3

DRAINAGE AREA.--360 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 1,920 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period of record also occurred September 14, 2007. Minimum discharge for current water year also occurred September 25, 26, 30.

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC—Continued

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	132	281	335	646	955	632	685	452	465	256	238	688
2	186	283	353	574	1,050	612	662	352	272	269	265	350
3	190	219	370	464	876	607	640	368	286	264	209	423
4	213	247	298	374	699	1,810	801	412	330	226	150	434
5	206	248	331	303	528	2,020	1,110	379	328	290	276	407
6	191	232	334	364	527	1,370	835	392	269	307	332	418
7	176	217	333	388	501	1,340	675	368	265	198	331	391
8	198	204	324	421	597	1,350	887	346	406	230	285	325
9	212	227	340	489	892	1,200	511	405	219	306	324	259
10	217	209	345	491	869	1,120	701	398	299	320	282	262
11	208	172	211	926	692	1,080	567	432	394	257	223	255
12	206	172	168	719	500	1,040	709	538	343	283	266	156
13	169	170	217	615	481	1,010	448	358	279	237	365	212
14	138	206	268	606	513	1,000	532	479	360	212	320	147
15	129	771	339	580	478	1,070	578	423	310	275	290	138
16	160	240	542	453	481	1,090	641	465	229	341	310	136
17	160	203	413	468	556	1,110	518	374	246	349	330	137
18	156	301	336	456	910	1,010	460	358	288	215	225	135
19	191	356	312	344	950	1,220	547	380	285	261	259	129
20	197	306	296	324	940	1,320	459	432	238	210	286	183
21	140	260	332	343	608	1,200	543	439	291	167	288	133
22	177	433	310	397	596	1,010	388	386	264	319	194	122
23	220	332	396	393	619	951	342	364	198	271	264	119
24	544	293	714	368	601	751	310	553	253	260	192	180
25	410	280	534	351	626	721	515	424	277	206	254	162
26	408	413	426	378	719	750	438	407	278	313	1,480	168
27	336	293	378	595	919	741	586	422	265	259	1,570	183
28	164	207	542	554	757	681	941	526	292	163	906	136
29	165	210	629	553	838	806	730	381	295	311	829	122
30	217	293	638	661	---	890	477	301	312	368	752	116
31	240	---	791	485	---	674	---	375	---	284	712	---
Total	6,656	8,278	12,155	15,083	20,278	32,186	18,236	12,689	8,836	8,227	13,007	7,026
Mean	215	276	392	487	699	1,038	608	409	295	265	420	234
Max	544	771	791	926	1,050	2,020	1,110	553	465	368	1,570	688
Min	129	170	168	303	478	607	310	301	198	163	150	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	524	629	860	894	723	791	668	530	658	677	560	961
Max	793	1,135	1,458	1,065	860	1,038	1,076	824	1,562	1,804	1,201	2,879
(WY)	(2005)	(2005)	(2005)	(2007)	(2006)	(2008)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
Min	215	276	392	487	523	495	432	365	295	265	283	209
(WY)	(2008)	(2008)	(2008)	(2008)	(2007)	(2006)	(2007)	(2007)	(2008)	(2008)	(2007)	(2007)

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2004 - 2008	
Annual total	153,623		162,657			
Annual mean	421		444		668	
Highest annual mean					1,123	2005
Lowest annual mean					444	2008
Highest daily mean	2,280	Jan 1	2,020	Mar 5	12,600	Sep 17, 2004
Lowest daily mean	116	Sep 13	116	Sep 30	116	Sep 13, 2007
Annual seven-day minimum	126	Sep 7	137	Sep 17	126	Sep 7, 2007
Maximum peak flow			4,640	Aug 26	15,800	Sep 17, 2004
Maximum peak stage			7.13	Aug 26	13.26	Sep 17, 2004
Instantaneous low flow			^a 115	Sep 24	^a 114	Sep 13, 2007
10 percent exceeds	722		871		1,250	
50 percent exceeds	340		350		535	
90 percent exceeds	178		183		246	

^aSee Remarks.