

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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 current water year and period of record also occurred on September 14.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	337	470	647	2,280	652	799	435	343	309	269	887	332
2	269	641	930	1,340	661	1,460	595	337	312	286	679	305
3	309	525	930	1,170	568	1,240	474	341	318	233	417	288
4	302	437	658	1,130	474	924	513	390	222	272	406	198
5	299	431	511	1,260	459	676	477	422	302	265	270	134
6	291	422	507	1,250	475	594	454	434	300	212	254	126
7	267	409	553	1,340	477	599	388	370	298	296	343	124
8	296	569	603	1,970	511	547	329	423	232	301	313	159
9	513	528	556	1,460	493	497	371	443	276	184	314	125
10	330	485	560	1,330	494	492	325	366	273	266	337	117
11	331	490	545	1,260	487	487	374	435	185	390	301	118
12	379	516	427	1,140	437	464	483	516	228	464	221	120
13	351	472	443	1,150	474	449	339	449	300	279	156	116
14	327	479	425	1,120	548	505	705	419	316	358	187	525
15	316	735	420	1,080	545	509	677	422	292	264	227	651
16	308	1,830	415	918	458	1,570	389	388	301	252	222	249
17	950	1,240	407	788	370	1,220	444	414	235	339	178	223
18	750	1,090	410	799	428	1,050	415	306	244	372	215	154
19	512	916	421	820	417	583	429	342	440	403	175	270
20	581	626	417	818	417	544	480	339	462	303	134	187
21	693	557	427	893	678	523	385	296	293	359	173	188
22	532	832	584	979	669	515	362	286	228	246	224	217
23	506	766	905	949	573	563	391	353	323	262	222	143
24	427	600	758	914	460	515	365	287	246	332	193	134
25	476	595	729	784	567	437	369	292	211	381	309	170
26	495	589	632	707	520	487	461	350	257	418	213	189
27	613	588	627	664	598	457	426	356	308	371	163	201
28	744	630	771	702	734	433	385	309	350	513	187	183
29	679	526	724	652	---	443	376	294	346	366	247	165
30	536	401	611	663	---	441	351	299	519	324	309	169
31	474	---	730	676	---	393	---	309	---	625	284	---
<b>Total</b>	14,193	19,395	18,283	33,006	14,644	20,416	12,967	11,330	8,926	10,205	8,760	6,280
<b>Mean</b>	458	646	590	1,065	523	659	432	365	298	329	283	209
<b>Max</b>	950	1,830	930	2,280	734	1,570	705	516	519	625	887	651
<b>Min</b>	267	401	407	652	370	393	325	286	185	184	134	116

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	627	746	1,016	1,030	731	709	688	570	779	780	595	1,142
<b>Max</b>	793	1,135	1,458	1,065	860	973	1,076	824	1,562	1,804	1,201	2,879
<b>(WY)</b>	(2005)	(2005)	(2005)	(2007)	(2006)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
<b>Min</b>	458	457	590	992	523	495	432	365	298	329	283	209
<b>(WY)</b>	(2007)	(2006)	(2007)	(2005)	(2007)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2004 - 2007	
<b>Annual total</b>	213,064		178,405			
<b>Annual mean</b>	584		489		743	
<b>Highest annual mean</b>					1,123	2005
<b>Lowest annual mean</b>					489	2007
<b>Highest daily mean</b>	2,350	Jan 18	2,280	Jan 1	12,600	Sep 17, 2004
<b>Lowest daily mean</b>	172	Aug 7	116	Sep 13	116	Sep 13, 2007
<b>Annual seven-day minimum</b>	275	Jun 16	126	Sep 7	126	Sep 7, 2007
<b>Maximum peak flow</b>			4,400	Jan 1	15,800	Sep 17, 2004
<b>Maximum peak stage</b>			6.99	Jan 1	13.26	Sep 17, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 114	Sep 13	<sup>a</sup> 114	Sep 13, 2007
<b>10 percent exceeds</b>	921		825		1,320	
<b>50 percent exceeds</b>	510		425		628	
<b>90 percent exceeds</b>	311		216		290	

<sup>a</sup> See Remarks.

