

Water-Data Report 2010

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 and crest-stage gage. Elevation of gage is 1,920 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	433	1,650	995	1,630	1,480	1,110	1,160	1,090	1,260	642	340	241
2	449	1,510	1,800	1,580	1,370	1,110	1,090	1,030	1,040	332	287	236
3	710	1,350	1,780	1,510	1,400	1,020	1,050	1,580	665	400	285	231
4	672	1,370	1,530	1,490	1,410	1,000	1,040	1,520	549	392	338	284
5	1,050	1,300	1,300	1,460	3,990	1,450	896	1,040	807	329	386	275
6	1,120	1,250	1,210	1,410	4,660	1,440	853	981	1,020	371	298	223
7	1,090	970	1,050	1,400	3,820	1,430	842	809	589	377	345	155
8	775	1,050	1,380	1,410	3,380	941	1,180	907	497	366	273	154
9	681	1,010	3,550	1,350	3,220	925	1,200	787	825	311	264	153
10	783	1,560	2,150	1,360	2,990	922	1,140	703	878	412	281	144
11	685	3,770	1,850	1,350	1,420	969	855	808	872	314	339	506
12	864	2,280	1,700	916	1,360	1,030	741	795	868	472	387	564
13	786	1,880	1,860	662	1,790	1,610	535	682	830	491	288	205
14	957	1,660	1,720	781	1,730	1,500	578	531	517	444	365	172
15	1,060	1,540	1,640	800	1,300	998	711	763	369	414	359	161
16	1,060	1,460	1,570	1,260	1,210	1,190	648	765	579	343	396	156
17	958	1,410	1,500	1,810	1,160	837	741	650	590	466	425	155
18	820	1,680	1,680	1,400	1,140	964	596	555	402	354	496	219
19	783	1,580	1,880	1,300	1,120	911	738	554	546	386	509	162
20	760	1,490	1,640	1,410	1,520	1,050	829	850	393	404	392	155
21	899	1,440	1,550	1,460	1,510	1,060	699	905	315	392	878	144
22	583	1,420	1,490	1,420	1,240	1,260	465	701	391	361	866	210
23	746	1,400	1,430	1,020	1,180	1,040	574	645	436	315	420	194
24	1,530	1,330	1,450	1,640	1,120	975	990	673	416	355	391	153
25	1,210	1,310	3,880	3,530	1,100	951	1,620	532	360	302	458	216
26	631	1,290	3,870	2,220	1,080	1,380	1,480	549	594	309	462	737
27	1,120	1,230	2,840	1,890	1,710	1,240	1,350	375	416	389	370	1,030
28	1,850	1,180	1,930	1,730	1,700	1,340	942	439	458	362	453	496
29	1,480	1,200	1,780	1,650	---	1,080	923	633	470	350	360	458
30	1,370	1,250	1,700	1,740	---	999	887	672	748	294	357	679
31	1,100	---	1,720	1,620	---	946	---	738	---	391	333	---
Total	29,015	44,820	57,425	46,209	52,110	34,678	27,353	24,262	18,700	11,840	12,401	8,868
Mean	936	1,494	1,852	1,491	1,861	1,119	912	783	623	382	400	296
Max	1,850	3,770	3,880	3,530	4,660	1,610	1,620	1,580	1,260	642	878	1,030
Min	433	970	995	662	1,080	837	465	375	315	294	264	144

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	535	713	993	980	858	817	724	685	654	595	509	869
Max	936	1,494	1,852	1,491	1,861	1,119	1,076	1,210	1,562	1,804	1,201	2,879
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2005)	(2009)	(2005)	(2005)	(2005)	(2004)
Min	178	268	392	487	398	495	432	365	295	265	283	209
(WY)	(2009)	(2009)	(2008)	(2008)	(2009)	(2006)	(2007)	(2007)	(2008)	(2008)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2004 - 2010	
Annual total	320,528		367,681			
Annual mean	878		1,007		715	
Highest annual mean					1,123	2005
Lowest annual mean					444	2008
Highest daily mean	4,890	Sep 22	4,660	Feb 6	12,600	Sep 17, 2004
Lowest daily mean	158	Sep 14	144	Sep 10	105	Oct 16, 2008
Annual seven-day minimum	207	Sep 8	165	Sep 15	126	Sep 7, 2007
Maximum peak flow			5,720	Feb 6	15,800	Sep 17, 2004
Maximum peak stage			7.57	Feb 6	13.26	Sep 17, 2004
Instantaneous low flow			^a 136	Sep 11	^a 99	Oct 8, 2008
10 percent exceeds	1,650		1,690		1,360	
50 percent exceeds	672		916		559	
90 percent exceeds	311		315		240	

^a See Remarks.

