

03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC

LOCATION.--Lat 35°25'39", long 83°26'49", Swain County, Hydrologic Unit 06010203, on left bank 400 ft downstream of bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi downstream of Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to December 1981, October 1983 to January 1995, April 1996 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum of 1,716.54 ft. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum of 1,716.54 ft. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum of 1,716.54 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by power plants upstream from station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (stations 03507111, 03507131), and two small reservoirs with a combined capacity of 250 ft³/s-day. Maximum discharge for period of record, from rating curve extended above 28,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and minimum daily discharge for period of record also occurred Sept. 10, 1925, caused by filling reservoir on Oconaluftee River. Minimum daily discharge during normal regulation: 186 ft³/s, Oct. 13, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, respectively, present site and datum, from studies by Tennessee Valley Authority; discharge not determined. The flood in May 1840 exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	1,450	4,310	1,930	1,220	2,260	2,360	2,140	1,310	1,820	1,940	2,790
2	1,780	1,240	3,310	2,060	1,270	1,950	3,640	1,860	2,040	1,660	1,460	2,460
3	1,730	1,730	2,830	2,000	1,720	1,720	2,930	1,720	1,960	1,720	1,570	1,970
4	1,710	3,320	2,550	2,020	1,470	1,600	2,770	1,660	1,500	1,710	1,740	1,800
5	1,480	2,690	2,120	2,020	1,400	1,610	2,670	1,560	1,720	1,750	1,630	1,700
6	1,240	2,300	2,570	2,060	1,370	1,520	2,820	1,530	1,330	2,050	1,500	1,680
7	1,430	2,080	3,660	2,030	1,490	1,520	2,820	1,480	1,740	5,790	1,260	1,580
8	1,420	1,910	3,210	2,420	1,260	3,290	2,830	1,390	1,840	4,340	1,850	1,550
9	1,370	1,820	4,800	2,140	1,190	2,700	2,210	1,410	2,070	3,550	1,780	1,240
10	1,260	1,540	5,110	2,010	1,210	2,410	2,180	1,520	2,000	3,320	1,780	1,390
11	1,300	1,310	4,440	2,010	1,140	2,100	2,100	1,650	2,100	2,900	1,460	1,350
12	1,260	2,420	3,750	1,530	1,110	2,100	2,190	1,420	2,550	4,410	1,510	1,180
13	1,620	2,660	3,330	1,570	1,160	1,940	2,830	1,500	9,080	4,170	1,650	1,050
14	1,410	2,280	3,010	3,840	1,510	2,180	3,480	1,630	4,420	3,720	2,000	1,010
15	1,020	2,140	2,830	2,380	1,490	1,840	2,650	1,880	3,460	3,400	1,500	966
16	1,100	1,900	2,420	2,160	1,510	1,980	2,360	2,000	2,170	3,190	1,410	980
17	1,290	1,750	2,590	2,000	1,560	2,130	2,400	1,440	2,030	2,330	1,350	1,040
18	1,520	1,600	2,500	1,970	1,460	2,300	2,210	1,550	2,000	2,240	2,060	838
19	1,850	1,620	2,420	1,900	1,420	1,850	1,730	1,440	2,160	2,590	2,290	802
20	1,600	1,500	2,310	1,860	1,600	1,790	1,700	3,030	2,610	2,590	1,770	777
21	1,400	1,410	2,270	1,830	3,970	1,720	1,610	2,580	2,450	2,940	1,540	1,080
22	1,370	1,380	2,190	1,560	4,080	1,690	1,890	2,230	2,110	3,550	1,350	1,190
23	1,220	1,860	3,260	1,450	3,180	2,570	2,120	1,830	1,690	2,340	1,630	1,180
24	1,400	5,310	2,730	1,390	3,150	2,550	1,900	1,560	1,670	2,110	1,360	941
25	1,370	5,210	2,490	1,480	2,690	2,360	1,830	1,560	1,620	1,860	1,470	622
26	1,190	3,730	2,400	1,430	2,200	1,960	1,970	1,380	1,590	1,790	1,250	740
27	1,080	3,130	2,320	1,370	2,120	1,930	2,060	1,370	1,460	1,760	1,560	1,050
28	1,010	2,930	2,260	1,210	2,380	2,920	1,880	1,360	1,760	1,680	1,630	824
29	1,550	2,640	2,220	1,350	---	2,650	1,880	1,390	2,150	2,090	1,680	822
30	1,240	2,480	2,190	1,410	---	2,650	2,100	1,300	1,820	1,960	4,230	813
31	1,410	---	2,150	1,300	---	2,580	---	1,220	---	1,870	3,460	---
TOTAL	43,500	69,340	90,550	57,690	51,330	66,370	70,120	51,590	68,410	83,200	54,670	37,415
MEAN	1,403	2,311	2,921	1,861	1,833	2,141	2,337	1,664	2,280	2,684	1,764	1,247
MAX	1,870	5,310	5,110	3,840	4,080	3,290	3,640	3,030	9,080	5,790	4,230	2,790
MIN	1,010	1,240	2,120	1,210	1,110	1,520	1,610	1,220	1,310	1,660	1,250	622

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2005, @BY WATER YEAR (WY)

MEAN	926	1,077	1,603	2,000	2,269	2,557	2,223	1,757	1,406	1,258	1,156	992
MAX	3,654	2,899	3,704	4,819	5,847	6,504	4,843	3,988	3,199	3,379	4,251	4,561
(WY)	(1899)	(1907)	(1933)	(1937)	(1899)	(1899)	(1920)	(2003)	(1909)	(1916)	(1901)	(2004)
MIN	347	378	457	599	736	926	841	602	531	503	220	195
(WY)	(1932)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1925)	(1925)	(1925)

03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1898 - 2005 [@]	
ANNUAL TOTAL	696,512		744,185		1,598	
ANNUAL MEAN	1,903		2,039		879	
HIGHEST ANNUAL MEAN					2,576	1899
LOWEST ANNUAL MEAN					879	1986
HIGHEST DAILY MEAN	23,500	Sep 17	9,080	Jun 13	28,000	Mar 4, 1917
LOWEST DAILY MEAN	684	Jun 21	622	Sep 25	31*	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	774	Aug 14	830	Sep 24	97	Sep 4, 1925
MAXIMUM PEAK FLOW			13,400	Jun 13	61,600*	Aug 30, 1940
MAXIMUM PEAK STAGE			8.38	Jun 13	15.96	Aug 30, 1940
INSTANTANEOUS LOW FLOW			592	Sep 26	27*	Sep 10, 1925
10 PERCENT EXCEEDS	3,140		3,160		2,840	
50 PERCENT EXCEEDS	1,480		1,840		1,270	
90 PERCENT EXCEEDS	975		1,240		610	

[@] See PERIOD OF RECORD.

* See REMARKS.

