

Water-Data Report 2008

03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC

Upper Tennessee Basin
Tuckasegee Subbasin

LOCATION.--Lat 35°17'16", long 83°08'38" referenced to North American Datum of 1983, Jackson County, NC, Hydrologic Unit 06010203, on left bank, 10 ft downstream from bridge on Secondary Road 1172, 3.0 mi southeast of Cullowhee and at river mile 47.3.

DRAINAGE AREA.--147 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 2,120 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 and current water year also occurred October 18, 2007.

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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	93	186	246	380	618	398	420	208	161	104	97	541
2	99	187	250	432	667	393	411	112	47	133	159	367
3	99	109	228	207	615	351	449	195	95	135	95	388
4	65	145	152	202	406	799	599	176	154	93	112	360
5	39	148	244	117	180	943	663	192	159	163	192	369
6	116	111	229	201	197	829	408	184	91	166	257	348
7	93	108	231	240	165	855	373	149	198	35	253	263
8	117	107	209	351	506	849	424	148	151	100	188	262
9	116	107	229	390	720	811	364	147	84	166	253	143
10	117	63	228	261	671	790	328	143	188	162	194	136
11	115	61	31	500	391	777	371	73	199	105	126	48
12	31	61	31	446	292	770	259	289	184	161	195	33
13	74	57	114	429	294	755	223	207	123	104	239	118
14	25	267	141	428	296	757	271	237	152	36	303	29
15	58	378	211	398	301	499	363	206	87	198	129	28
16	58	77	325	192	305	744	380	174	36	255	295	27
17	52	73	216	221	309	798	239	113	84	226	129	28
18	52	275	189	220	578	624	223	114	145	93	171	28
19	31	247	161	118	746	788	270	201	141	162	124	27
20	76	161	146	118	648	771	217	215	84	98	225	108
21	70	151	148	180	351	695	275	218	145	30	218	27
22	76	198	154	200	354	631	96	160	84	168	110	26
23	114	170	347	173	406	586	94	171	31	164	207	99
24	149	164	551	201	401	396	164	243	116	160	110	85
25	361	154	384	202	389	404	248	226	143	101	120	89
26	235	251	235	226	544	512	345	219	142	166	673	29
27	89	44	232	577	697	418	366	368	104	103	840	107
28	30	36	499	426	562	469	719	248	144	29	765	28
29	107	78	244	437	520	457	322	175	109	113	795	27
30	112	168	564	406	---	647	258	149	152	161	728	82
31	109	---	535	180	---	409	---	206	---	157	745	---
Total	2,978	4,342	7,704	9,059	13,129	19,925	10,142	5,866	3,733	4,047	9,047	4,250
Mean	96.1	145	249	292	453	643	338	189	124	131	292	142
Max	361	378	564	577	746	943	719	368	199	255	840	541
Min	25	36	31	117	165	351	94	73	31	29	95	26

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	314	353	520	522	387	395	289	240	374	443	337	626
Max	516	656	790	677	456	643	475	387	1,034	1,249	731	1,961
(WY)	(2005)	(2005)	(2005)	(2007)	(2006)	(2008)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
Min	96.1	145	249	292	284	186	168	161	124	131	152	91.0
(WY)	(2008)	(2008)	(2008)	(2008)	(2007)	(2006)	(2007)	(2007)	(2008)	(2008)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2004 - 2008	
Annual total	80,684		94,222			
Annual mean	221		257		373	
Highest annual mean					644	2005
Lowest annual mean					257	2008
Highest daily mean	999	Jan 8	943	Mar 5	7,440	Sep 8, 2004
Lowest daily mean	25	Sep 11	25	Oct 14	25	Sep 11, 2007
Annual seven-day minimum	34	Sep 7	39	Sep 16	34	Sep 7, 2007
Maximum peak flow			1,390	Mar 4	11,500	Sep 8, 2004
Maximum peak stage			7.24	Mar 4	17.37	Sep 8, 2004
Instantaneous low flow			^a 16	Oct 17	^a 16	Oct 17, 2007
10 percent exceeds	461		590		802	
50 percent exceeds	160		193		268	
90 percent exceeds	62		62		96	

^aSee Remarks.