

Water-Data Report 2010

**03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC**

Upper Tennessee Basin  
Tuckasegee Subbasin

LOCATION.--Lat 35°27'41", long 83°21'13" referenced to North American Datum of 1983, Swain County, NC, Hydrologic Unit 06010203, in Cherokee Indian Reservation on left bank 1500 ft upstream from bridge on Secondary Road 1359, 0.5 mi south of Birdtown, 0.6 mi downstream of Adams Creek, 0.6 mi upstream from Goose Creek, 2.2 mi southwest of Cherokee, and at river mile 3.1.

DRAINAGE AREA.--184 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,843.30 ft above National Geodetic Vertical Datum of 1929. Prior to October 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at streamgage.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Maximum gage height for period of record from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of November 19, 1906, and March 27, 1913, reached stages of 18 and 14.5 ft, respectively, from studies by Tennessee Valley Authority; discharge not determined.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	501	1,470	428	667	688	439	606	671	356	230	263	180
2	446	1,030	848	600	864	451	603	621	313	214	214	174
3	408	853	922	553	803	e421	592	2,340	322	210	200	169
4	366	734	659	545	753	e405	545	1,370	296	201	200	172
5	566	646	608	507	2,270	e395	505	1,060	313	192	324	158
6	424	578	537	493	2,550	391	478	893	293	184	435	154
7	441	526	500	468	1,640	389	446	775	296	178	263	149
8	386	486	525	452	1,300	388	786	692	260	173	226	157
9	361	453	4,660	e430	1,150	400	879	621	262	172	207	170
10	437	640	1,850	e417	1,010	445	628	575	339	206	201	147
11	370	2,440	1,270	e404	894	555	564	553	301	173	210	362
12	365	1,380	1,010	399	823	811	523	524	286	363	235	413
13	356	1,040	1,350	378	756	1,010	491	493	291	308	196	202
14	698	870	1,190	376	699	788	465	457	269	268	303	170
15	915	753	1,040	373	683	709	445	440	277	216	330	159
16	860	672	913	372	620	640	427	450	414	241	273	152
17	698	614	819	703	584	653	411	468	309	359	306	162
18	613	721	920	789	556	612	393	434	268	350	304	154
19	528	612	855	573	532	606	380	398	320	495	422	145
20	494	554	752	579	513	606	396	375	265	459	333	140
21	463	520	680	908	504	635	426	368	242	477	502	136
22	428	505	637	983	572	880	368	373	245	322	493	135
23	423	487	610	796	557	677	354	344	237	272	359	143
24	760	457	592	1,810	531	606	444	329	262	244	307	131
25	531	437	1,780	3,200	500	592	1,620	326	495	234	275	130
26	472	418	1,360	1,580	482	672	917	315	301	261	250	370
27	721	401	1,060	1,180	469	607	1,030	303	290	243	233	428
28	1,220	386	908	979	455	720	1,020	309	270	209	244	518
29	820	375	797	868	---	959	844	300	305	272	219	294
30	693	450	723	941	---	724	746	283	253	244	204	353
31	941	---	735	762	---	654	---	328	---	233	192	---
<b>Total</b>	17,705	21,508	31,538	24,085	23,758	18,840	18,332	17,788	8,950	8,203	8,723	6,327
<b>Mean</b>	571	717	1,017	777	848	608	611	574	298	265	281	211
<b>Max</b>	1,220	2,440	4,660	3,200	2,550	1,010	1,620	2,340	495	495	502	518
<b>Min</b>	356	375	428	372	455	388	354	283	237	172	192	130
<b>Cfsm</b>	3.10	3.90	5.53	4.22	4.61	3.30	3.32	3.12	1.62	1.44	1.53	1.15
<b>In.</b>	3.58	4.35	6.38	4.87	4.80	3.81	3.71	3.60	1.81	1.66	1.76	1.28

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2010<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	262	384	579	706	779	844	704	540	414	376	320	269
<b>Max</b>	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	968
<b>(WY)</b>	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(2004)
<b>Min</b>	93.5	125	162	170	334	330	277	239	175	169	125	97.9
<b>(WY)</b>	(2009)	(1988)	(1966)	(1981)	(2007)	(1988)	(1986)	(1986)	(1988)	(1952)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1945 - 2010 <sup>a</sup>	
<b>Annual total</b>	207,527		205,757			
<b>Annual mean</b>	569		564		513	
<b>Highest annual mean</b>					771	1994
<b>Lowest annual mean</b>					274	1986
<b>Highest daily mean</b>	4,660	Dec 9	4,660	Dec 9	8,470	Mar 12, 1963
<b>Lowest daily mean</b>	156	Sep 14	130	Sep 25	65	Oct 16, 2007
<b>Annual seven-day minimum</b>	177	Sep 3	137	Sep 19	66	Oct 12, 2007
<b>Maximum peak flow</b>			9,960	Dec 9	15,900	Dec 30, 1969
<b>Maximum peak stage</b>			8.80	Dec 9	<sup>b</sup> 12.46	Dec 30, 1969
<b>Instantaneous low flow</b>			125	Sep 25	58	Sep 30, 2007
<b>Annual runoff (cfsm)</b>	3.09		3.06		2.79	
<b>Annual runoff (inches)</b>	41.96		41.60		37.92	
<b>10 percent exceeds</b>	992		948		927	
<b>50 percent exceeds</b>	455		455		394	
<b>90 percent exceeds</b>	227		205		165	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.

