

Water-Data Report 2008

**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 NGVD of 1929. Prior to October 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Maximum gage height for period of record from floodmarks. Minimum discharge for current water year also occurred October 2, 3, 14, 15, 16, 17, 18.

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 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	67	84	148	515	1,300	452	417	376	291	196	298	135
2	66	84	139	427	865	434	423	355	269	157	194	129
3	66	81	234	374	640	445	401	348	250	147	166	119
4	77	79	175	343	783	2,470	451	336	241	143	150	114
5	92	78	154	298	915	1,990	626	317	230	151	139	107
6	78	110	149	287	1,430	1,190	1,230	300	220	172	134	104
7	73	96	137	267	1,240	1,060	752	291	216	198	127	104
8	69	84	139	250	887	1,190	641	286	206	222	124	101
9	69	82	219	255	710	903	570	374	200	350	118	125
10	101	80	257	347	589	783	521	530	193	350	116	126
11	74	79	195	2,220	509	700	491	484	189	365	112	107
12	68	78	180	922	458	633	499	571	200	232	108	104
13	67	80	207	654	536	569	439	473	204	212	114	104
14	66	86	183	520	438	543	420	423	182	333	113	102
15	66	412	184	437	398	750	404	413	189	221	106	133
16	65	190	455	381	376	830	385	585	175	192	134	111
17	67	140	312	405	510	666	371	468	178	175	195	103
18	65	127	249	361	1,380	612	360	456	164	162	116	99
19	126	120	224	329	740	1,220	395	461	159	155	109	92
20	95	115	206	e306	621	1,450	378	421	157	147	103	91
21	72	112	323	279	547	1,010	348	401	158	141	100	89
22	70	251	286	298	520	860	334	364	163	168	95	88
23	106	179	754	309	473	744	321	343	165	176	93	85
24	577	142	542	273	430	659	310	328	149	145	92	83
25	248	131	380	239	419	592	302	310	142	136	143	81
26	141	287	314	248	586	542	301	297	139	219	736	82
27	114	327	271	234	542	503	355	291	230	200	740	86
28	101	225	1,090	221	457	473	610	327	170	153	313	90
29	94	186	1,650	226	440	487	470	332	232	207	224	88
30	90	163	842	494	---	456	402	290	207	167	173	82
31	85	---	669	327	---	422	---	291	---	163	148	---
<b>Total</b>	3,215	4,288	11,267	13,046	19,739	25,638	13,927	11,842	5,868	6,155	5,633	3,064
<b>Mean</b>	104	143	363	421	681	827	464	382	196	199	182	102
<b>Max</b>	577	412	1,650	2,220	1,430	2,470	1,230	585	291	365	740	135
<b>Min</b>	65	78	137	221	376	422	301	286	139	136	92	81
<b>Cfsm</b>	0.56	0.78	1.98	2.29	3.70	4.49	2.52	2.08	1.06	1.08	0.99	0.56
<b>In.</b>	0.65	0.87	2.28	2.64	3.99	5.18	2.82	2.39	1.19	1.24	1.14	0.62

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2008<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	260	383	569	705	785	852	707	536	417	379	321	266
<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>	94.5	125	162	170	334	330	277	239	175	169	125	97.9
<b>(WY)</b>	(1955)	(1988)	(1966)	(1981)	(2007)	(1988)	(1986)	(1986)	(1988)	(1952)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1945 - 2008 <sup>a</sup>	
<b>Annual total</b>	104,917		123,682			
<b>Annual mean</b>	287		338		514	
<b>Highest annual mean</b>					771	1994
<b>Lowest annual mean</b>					274	1986
<b>Highest daily mean</b>	2,060	Mar 2	2,470	Mar 4	8,470	Mar 12, 1963
<b>Lowest daily mean</b>	65	Oct 16	65	Oct 16	65	Oct 16, 2007
<b>Annual seven-day minimum</b>	66	Oct 12	66	Oct 12	66	Oct 12, 2007
<b>Maximum peak flow</b>			5,870	Mar 4	15,900	Dec 30, 1969
<b>Maximum peak stage</b>			6.25	Mar 4	<sup>b</sup> 12.46	Dec 30, 1969
<b>Instantaneous low flow</b>			<sup>b</sup> 64	Oct 1	58	Sep 30, 2007
<b>Annual runoff (cfsm)</b>	1.56		1.84		2.79	
<b>Annual runoff (inches)</b>	21.21		25.01		37.92	
<b>10 percent exceeds</b>	543		667		929	
<b>50 percent exceeds</b>	207		234		393	
<b>90 percent exceeds</b>	82		86		166	

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

<sup>b</sup>See Remarks.

