

Water-Data Report 2013

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 mi².

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.--No estimated daily discharges. Records good. 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.

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	213	229	195	680	1,880	829	1,480	1,100	378	463	422	346
2	1,640	223	193	790	1,440	760	1,120	950	746	502	389	372
3	605	283	190	652	1,210	696	960	850	643	1,780	365	441
4	408	390	188	586	1,020	643	1,130	809	473	2,490	349	311
5	334	392	189	537	904	912	1,140	1,240	468	3,040	334	284
6	296	340	188	509	811	1,160	998	1,430	803	2,770	324	267
7	326	329	185	467	769	878	901	1,130	731	2,780	358	259
8	284	309	181	437	784	810	835	1,000	681	2,250	493	253
9	272	287	185	417	729	759	775	932	617	1,750	441	255
10	252	283	339	402	721	738	720	837	1,630	1,510	675	257
11	238	304	397	480	1,180	877	684	805	1,260	1,280	804	244
12	226	375	265	607	978	1,560	1,570	779	922	1,060	525	403
13	219	657	239	515	981	1,020	1,010	693	924	947	520	532
14	212	394	226	3,760	859	872	879	648	798	839	513	322
15	361	340	217	7,300	787	793	824	614	658	764	431	281
16	273	311	442	7,230	738	736	744	580	591	689	405	265
17	240	287	764	4,770	672	696	709	551	635	656	372	253
18	232	270	588	3,710	633	780	659	586	644	660	463	248
19	222	259	480	2,400	651	972	943	686	635	662	628	244
20	212	251	900	1,770	584	736	851	625	546	632	705	238
21	207	242	1,150	1,400	554	695	723	584	571	606	547	747
22	201	236	725	1,130	922	641	679	661	498	639	474	635
23	197	229	585	950	923	621	641	625	464	668	425	386
24	192	222	920	830	881	1,020	625	552	450	545	397	338
25	189	213	876	785	782	1,040	594	509	439	529	364	594
26	186	209	1,500	734	1,270	870	545	491	435	477	345	721
27	184	233	1,240	647	1,110	788	711	465	785	487	329	503
28	191	219	934	609	941	731	1,720	445	631	449	317	423
29	212	204	879	584	---	694	1,990	424	562	418	306	380
30	242	199	696	3,980	---	738	1,340	407	473	395	297	352
31	236	---	611	3,400	---	1,240	---	390	---	439	298	---
Total	9,302	8,719	16,667	53,068	25,714	26,305	28,500	22,398	20,091	33,176	13,615	11,154
Mean	300	291	538	1,712	918	849	950	723	670	1,070	439	372
Max	1,640	657	1,500	7,300	1,880	1,560	1,990	1,430	1,630	3,040	804	747
Min	184	199	181	402	554	621	545	390	378	395	297	238
Cfsm	1.63	1.58	2.92	9.30	4.99	4.61	5.16	3.93	3.64	5.82	2.39	2.02
In.	1.88	1.76	3.37	10.73	5.20	5.32	5.76	4.53	4.06	6.71	2.75	2.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2013^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	261	384	583	722	775	845	708	539	416	384	319	270
Max	645	777	1,266	1,712	1,700	1,714	1,315	1,202	1,136	1,070	733	968
(WY)	(1990)	(1958)	(1962)	(2013)	(1990)	(1963)	(1994)	(1984)	(1989)	(2013)	(1994)	(2004)
Min	93.5	125	162	170	334	330	277	239	175	169	125	97.9
(WY)	(2009)	(1988)	(1966)	(1981)	(2007)	(1988)	(1986)	(1986)	(1988)	(1952)	(2007)	(2007)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1945 - 2013 ^a	
Annual total	167,030		268,709			
Annual mean	456		736		516	
Highest annual mean					771 1994	
Lowest annual mean					274 1986	
Highest daily mean	2,040	Jan 23	7,300	Jan 15	8,470	Mar 12, 1963
Lowest daily mean	128	Sep 16	181	Dec 8	65	Oct 16, 2007
Annual seven-day minimum	134	Sep 11	187	Dec 3	66	Oct 12, 2007
Maximum peak flow			10,900	Jan 15	15,900	Dec 30, 1969
Maximum peak stage			9.37	Jan 15	^b 12.46	Dec 30, 1969
Instantaneous low flow			166	Oct 1	58	Sep 30, 2007
Annual runoff (cfsm)	2.48		4.00		2.80	
Annual runoff (inches)	33.77		54.33		38.10	
10 percent exceeds	850		1,220		930	
50 percent exceeds	374		607		395	
90 percent exceeds	188		233		166	

^a See Period of Record.

^b See Remarks.

