

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC

LOCATION.--Lat 35°27'41", long 83°21'13", Swain County, 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 mile 3.1.

DRAINAGE AREA.--184 mi².

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 Oct. 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 period of record also occurred Nov. 9, 1987. Minimum discharge for current water year also occurred Sept. 22.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	510	358	746	507	1,110	398	560	431	423	474	251
2	277	422	343	654	461	1,020	425	581	407	1,230	417	214
3	246	369	332	714	441	908	422	529	432	664	413	209
4	224	346	396	609	1,090	811	403	485	459	499	450	750
5	228	421	1,020	576	724	759	596	1,080	402	471	708	462
6	203	938	707	543	628	1,850	524	7,150	378	510	479	316
7	232	649	585	503	587	1,220	792	4,590	834	739	427	274
8	209	541	528	486	506	1,030	782	2,910	726	599	387	265
9	187	473	488	470	474	919	1,730	2,000	535	555	364	243
10	181	452	474	455	488	826	1,720	1,500	473	564	349	232
11	273	1,010	649	420	440	753	1,530	1,260	454	677	345	215
12	238	1,070	551	391	423	692	1,330	1,080	561	544	316	206
13	237	893	603	e386	401	653	1,180	950	475	515	302	197
14	209	704	645	378	517	629	1,010	861	449	535	298	190
15	209	621	563	359	1,150	589	878	800	470	638	283	210
16	350	975	530	355	1,770	644	777	783	528	500	343	186
17	312	858	499	355	1,670	580	733	694	914	497	305	177
18	255	705	472	331	1,190	546	1,020	657	1,200	447	277	170
19	232	622	473	e323	971	549	811	619	792	446	247	165
20	222	555	2,250	e328	862	620	725	583	645	390	235	161
21	220	753	1,050	400	913	577	877	647	549	562	232	156
22	211	685	860	374	3,870	532	800	792	490	923	243	748
23	194	596	725	e337	2,490	504	726	665	444	617	230	788
24	185	546	1,330	e323	1,650	481	676	594	406	483	211	356
25	186	508	1,340	e314	1,290	462	648	552	377	418	203	288
26	217	474	1,060	e300	1,180	448	627	526	354	388	198	254
27	198	486	900	e291	1,300	434	575	497	349	360	207	281
28	303	428	780	288	1,270	417	535	473	335	331	200	311
29	567	400	692	552	---	413	515	491	315	367	208	238
30	1,240	385	624	706	---	452	551	482	316	413	201	221
31	697	---	577	585	---	411	---	467	---	514	423	---
TOTAL	9,061	18,395	22,404	13,852	29,263	21,839	24,316	35,858	15,500	16,819	9,975	8,734
MEAN	292	613	723	447	1,045	704	811	1,157	517	543	322	291
MAX	1,240	1,070	2,250	746	3,870	1,850	1,730	7,150	1,200	1,230	708	788
MIN	181	346	332	288	401	411	398	467	315	331	198	156
CFSM	1.59	3.33	3.93	2.43	5.68	3.83	4.41	6.29	2.81	2.95	1.75	1.58
IN.	1.83	3.72	4.53	2.80	5.92	4.42	4.92	7.25	3.13	3.40	2.02	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, @ BY WATER YEAR (WY)

MEAN	261	380	572	713	804	872	720	547	425	382	327	258
MAX	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	584
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(1989)
MIN	94.5	125	162	170	392	330	277	239	175	169	152	121
(WY)	(1955)	(1988)	(1966)	(1981)	(1978)	(1988)	(1986)	(1986)	(1988)	(1952)	(2002)	(1954)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003 [®]	
ANNUAL TOTAL	160,594		226,016		520	
ANNUAL MEAN	440		619		274	
HIGHEST ANNUAL MEAN					771	1994
LOWEST ANNUAL MEAN					274	1986
HIGHEST DAILY MEAN	2,380	Jan 24	7,150	May 6	8,470	Mar 12, 1963
LOWEST DAILY MEAN	88	Sep 12	156	Sep 21	80	Nov 8, 1987
ANNUAL SEVEN-DAY MINIMUM	94	Sep 7	175	Sep 15	82	Oct 16, 1954
MAXIMUM PEAK FLOW			12,300	May 6	15,900	Dec 30, 1969
MAXIMUM PEAK STAGE			10.38	May 6	12.46*	Dec 30, 1969
INSTANTANEOUS LOW FLOW			152*	Sep 21	79*	Nov 8, 1987
ANNUAL RUNOFF (CFSM)	2.39		3.37		2.83	
ANNUAL RUNOFF (INCHES)	32.47		45.69		38.41	
10 PERCENT EXCEEDS	830		1,050		945	
50 PERCENT EXCEEDS	350		497		394	
90 PERCENT EXCEEDS	147		226		167	

e Estimated.
[®] See PERIOD OF RECORD.
 * See REMARKS.

