

TENNESSEE RIVER BASIN

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 sea level. 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 poor. 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 Nov. 3, 4, 6, 7.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	130	203	e232	379	701	617	337	561	855	470	438
2	208	130	198	e209	356	631	546	328	539	509	440	451
3	198	130	205	e192	333	635	640	317	460	491	394	580
4	189	130	191	e185	321	730	737	304	433	462	575	548
5	183	134	186	e182	311	644	664	297	397	434	514	430
6	178	127	180	e179	296	584	612	311	375	376	554	374
7	174	145	179	e192	285	544	571	339	363	343	468	341
8	167	167	175	e216	275	517	532	289	618	e326	459	318
9	164	1440	173	187	268	502	501	283	500	e590	457	301
10	166	868	173	186	376	473	476	281	413	453	484	290
11	165	402	173	200	295	454	453	265	375	366	581	278
12	162	311	186	215	304	511	437	285	347	333	552	262
13	160	268	171	195	321	852	736	e260	325	307	707	255
14	157	242	638	188	579	626	593	e240	313	285	567	244
15	155	220	365	197	673	739	620	e236	341	268	476	235
16	153	216	550	197	976	723	588	234	474	257	424	225
17	151	294	1370	184	1570	652	545	227	337	249	391	222
18	150	230	668	381	961	590	518	220	305	245	367	215
19	148	224	531	2300	760	545	496	226	288	242	342	230
20	147	214	e450	1630	645	559	474	279	273	305	331	284
21	148	198	e391	914	597	540	454	233	263	276	305	228
22	148	e198	e342	686	751	515	434	332	318	246	289	210
23	145	e192	e314	571	654	503	418	358	323	223	277	204
24	142	192	e296	502	573	488	408	267	259	212	353	627
25	159	340	e278	447	1390	471	398	1620	263	259	299	410
26	161	307	264	405	1240	444	375	708	406	417	324	306
27	149	253	259	386	952	423	362	499	327	260	292	266
28	140	232	252	355	809	407	351	457	309	266	312	244
29	136	221	234	340	---	525	340	441	278	1350	268	227
30	134	212	217	550	---	632	341	375	824	1000	300	216
31	129	---	e210	425	---	617	---	347	---	579	319	---
TOTAL	4987	8367	10022	13228	17250	17777	15237	11195	11607	12784	12891	9459
MEAN	161	279	323	427	616	573	508	361	387	412	416	315
MAX	221	1440	1370	2300	1570	852	737	1620	824	1350	707	627
MIN	129	127	171	179	268	407	340	220	259	212	268	204
CFSM	.87	1.52	1.76	2.32	3.35	3.12	2.76	1.96	2.10	2.24	2.26	1.71
IN.	1.01	1.69	2.03	2.67	3.49	3.59	3.08	2.26	2.35	2.58	2.61	1.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, @ BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)							
MEAN	262	380	574	719	807	881	722	535	426	382	330	257
MAX	645	777	1266	1428	1700	1714	1315	1202	1136	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	161	121
(WY)	1955	1988	1966	1981	1978	1988	1986	1986	1988	1952	1987	1954

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 1945 - 2001@

ANNUAL TOTAL	144804	
ANNUAL MEAN	397	521
HIGHEST ANNUAL MEAN		771
LOWEST ANNUAL MEAN		274
HIGHEST DAILY MEAN	2300	Jan 19
LOWEST DAILY MEAN	127	Nov 6
ANNUAL SEVEN-DAY MINIMUM	130	Oct 31
MAXIMUM PEAK FLOW	3780	Nov 9
MAXIMUM PEAK STAGE	4.96	Nov 9
INSTANTANEOUS LOW FLOW	126*	Nov 2
ANNUAL RUNOFF (CFSM)	2.16	2.83
ANNUAL RUNOFF (INCHES)	29.28	38.50
10 PERCENT EXCEEDS	644	945
50 PERCENT EXCEEDS	326	393
90 PERCENT EXCEEDS	174	168

e Estimated.

@ See PERIOD OF RECORD.

* See REMARKS.

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC--Continued

