

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

REMARKS.--No estimated daily discharges. Records good. Maximum gage height for period of record from floodmarks. Minimum discharge for period of record also occurred Nov. 9, 1987.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	146	200	212	571	284	1130	825	319	205	173	145
2	203	145	166	210	508	313	928	590	304	231	165	128
3	198	140	153	207	476	379	800	713	285	258	158	122
4	192	137	144	197	447	316	698	1310	310	270	148	122
5	189	134	137	226	408	288	626	1080	349	214	142	128
6	200	132	133	236	445	296	571	835	339	186	138	108
7	187	130	132	212	611	289	530	710	372	172	132	104
8	179	129	166	188	500	282	499	626	292	175	125	100
9	177	126	200	200	466	295	721	578	273	190	121	96
10	175	124	303	199	454	316	681	556	262	184	120	91
11	176	123	617	255	447	272	574	517	252	259	118	89
12	198	122	339	225	422	348	535	475	246	299	118	88
13	208	121	528	203	403	387	510	580	251	268	112	88
14	271	120	575	193	386	345	504	631	263	373	109	112
15	256	117	468	192	374	327	500	507	247	298	186	195
16	200	115	367	184	364	396	457	471	230	240	169	175
17	185	114	434	182	350	1710	439	451	223	210	155	125
18	180	114	913	194	334	1470	434	683	215	197	161	121
19	177	113	563	1280	330	1050	419	537	210	192	152	119
20	174	113	443	1280	357	866	397	486	241	221	145	110
21	168	108	373	821	362	827	383	461	224	204	122	523
22	165	107	327	643	329	683	379	439	203	222	118	998
23	163	110	346	2220	319	606	356	423	195	210	112	546
24	162	153	455	2380	312	556	347	413	214	251	114	320
25	180	383	346	2330	307	511	486	408	199	411	121	308
26	163	233	318	1450	312	611	379	397	219	352	135	719
27	152	166	291	1070	295	631	359	420	271	263	391	1070
28	150	146	278	866	278	525	360	409	306	227	252	771
29	151	135	264	737	---	493	360	372	240	231	180	497
30	149	216	241	649	---	960	333	354	211	197	176	382
31	147	---	229	586	---	1260	---	331	---	181	141	---
TOTAL	5685	4272	10449	20027	11167	17892	15695	17588	7765	7391	4709	8500
MEAN	183.4	142.4	337.1	646.0	398.8	577.2	523.2	567.4	258.8	238.4	151.9	283.3
MAX	271	383	913	2380	611	1710	1130	1310	372	411	391	1070
MIN	147	107	132	182	278	272	333	331	195	172	109	88
CFSM	1.00	0.77	1.83	3.51	2.17	3.14	2.84	3.08	1.41	1.30	0.83	1.54
IN.	1.15	0.86	2.11	4.05	2.26	3.62	3.17	3.56	1.57	1.49	0.95	1.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, [®] BY WATER YEAR (WY)

	MEAN	260.5	375.4	569.5	717.4	799.7	875.1	718.8	535.4	423.3	379.6	326.6	257.1
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	152	121	
(WY)	1955	1988	1966	1981	1978	1988	1986	1986	1988	1952	2002	1954	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1945 - 2002[®]

ANNUAL TOTAL	141834	131140		
ANNUAL MEAN	388.6	359.3	518.4	
HIGHEST ANNUAL MEAN			771	1994
LOWEST ANNUAL MEAN			274	1986
HIGHEST DAILY MEAN	2300	Jan 19	2380	Jan 24
LOWEST DAILY MEAN	107	Nov 22	88	Sep 12
ANNUAL SEVEN-DAY MINIMUM	111	Nov 17	94	Sep 7
MAXIMUM PEAK FLOW			4270	Mar 17
MAXIMUM PEAK STAGE			5.33	Mar 17
INSTANTANEOUS LOW FLOW			84	Sep 13
ANNUAL RUNOFF (CFSM)	2.11	1.95	2.82	
ANNUAL RUNOFF (INCHES)	28.68	26.51	38.28	
10 PERCENT EXCEEDS	633	662	943	
50 PERCENT EXCEEDS	328	268	391	
90 PERCENT EXCEEDS	158	122	166	

[®] See PERIOD OF RECORD.

* See REMARKS.

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC--Continued

