

Water-Data Report 2007

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

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	362	435	679	1,990	378	846	464	332	206	151	240	164
2	327	473	533	942	378	2,060	533	315	190	140	224	109
3	306	396	450	739	e366	990	419	303	180	146	197	99
4	290	367	409	634	e357	757	583	325	206	137	170	93
5	277	349	382	652	e346	635	475	404	187	128	156	87
6	340	333	365	672	e338	563	436	406	177	129	149	85
7	281	357	348	783	330	513	424	332	166	124	140	84
8	261	780	327	1,440	315	478	399	314	164	128	128	84
9	252	737	319	973	303	448	387	302	183	127	120	82
10	241	513	312	807	294	429	372	295	155	171	117	82
11	248	492	303	699	e291	415	377	297	152	274	110	82
12	282	488	294	640	287	394	609	291	148	192	106	89
13	231	429	309	600	297	381	444	279	146	142	105	82
14	219	400	288	565	335	382	428	261	165	136	100	228
15	214	694	277	531	278	364	626	256	240	137	95	254
16	217	1,870	269	538	e276	1,130	544	253	166	128	92	116
17	1,500	1,040	262	478	e273	716	497	262	152	125	98	100
18	932	799	256	461	268	571	484	240	145	143	95	94
19	601	677	251	444	e268	513	494	234	180	174	89	88
20	618	592	247	415	264	487	486	226	289	205	90	85
21	495	523	243	551	402	467	444	219	162	174	97	81
22	446	486	661	704	347	439	415	213	143	138	107	81
23	401	454	606	557	297	420	392	210	139	141	99	80
24	371	424	420	516	281	401	378	210	139	139	105	77
25	347	399	511	487	540	386	365	203	156	177	106	75
26	330	378	531	e470	476	374	374	198	165	248	97	73
27	520	360	475	448	392	364	460	196	186	178	125	72
28	1,080	346	435	430	362	354	380	189	157	448	132	75
29	652	336	411	e414	---	370	357	185	301	317	125	70
30	533	472	402	393	---	363	341	177	174	242	128	67
31	473	---	804	e387	---	340	---	174	---	230	142	---
Total	13,647	16,399	12,379	20,360	9,339	17,350	13,387	8,101	5,319	5,469	3,884	2,938
Mean	440	547	399	657	334	560	446	261	177	176	125	97.9
Max	1,500	1,870	804	1,990	540	2,060	626	406	301	448	240	254
Min	214	333	243	387	264	340	341	174	139	124	89	67
Cfsm	2.39	2.97	2.17	3.57	1.81	3.04	2.43	1.42	0.96	0.96	0.68	0.53
In.	2.76	3.32	2.50	4.12	1.89	3.51	2.71	1.64	1.08	1.11	0.79	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	262	387	573	710	786	853	711	538	420	382	323	269
Max	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	968
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(2004)
Min	94.5	125	162	170	334	330	277	239	175	169	125	97.9
(WY)	(1955)	(1988)	(1966)	(1981)	(2007)	(1988)	(1986)	(1986)	(1988)	(1952)	(2007)	(2007)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1945 - 2007 ^a	
Annual total	174,176		128,572			
Annual mean	477		352		517	
Highest annual mean					771	1994
Lowest annual mean					274	1986
Highest daily mean	3,230	Jan 18	2,060	Mar 2	8,470	Mar 12, 1963
Lowest daily mean	186	Aug 28	67	Sep 30	67	Sep 30, 2007
Annual seven-day minimum	217	Jun 17	73	Sep 24	73	Sep 24, 2007
Maximum peak flow			4,300	Jan 1	15,900	Dec 30, 1969
Maximum peak stage			5.22	Jan 1	^b 12.46	Dec 30, 1969
Instantaneous low flow			58	Sep 30	58	Sep 30, 2007
Annual runoff (cfsm)	2.59		1.91		2.81	
Annual runoff (inches)	35.21		25.99		38.14	
10 percent exceeds	735		613		932	
50 percent exceeds	420		314		395	
90 percent exceeds	238		105		167	

^a See Period of Record.

^b See Remarks.

