

## TENNESSEE RIVER BASIN

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'04", Yancey County, Hydrologic Unit 06010108, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mi downstream of Whiteoak Creek, 1.9 mi southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.3 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1957 to current year.

REVISED RECORDS.--WSP 1910: 1958-59. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,658 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; gage height from outside floodmarks. Minimum discharge for period of record also occurred Sept. 26, 27, 1999. Minimum discharge for current water year also occurred Nov. 1, 2, 3, 4, 6, 7.

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	31	19	49	e45	67	89	332	69	64	109	119	64
2	30	19	46	44	63	83	257	66	74	71	149	66
3	28	19	45	e42	58	84	257	62	52	91	164	377
4	26	20	41	e40	57	126	311	62	47	114	157	235
5	25	21	e40	e38	55	140	273	67	44	123	205	149
6	24	20	37	e36	51	101	279	61	41	76	145	115
7	24	20	35	e36	51	89	263	58	40	62	117	99
8	24	21	35	39	49	85	212	57	45	61	114	86
9	24	227	34	e38	49	81	180	56	47	67	111	79
10	24	186	33	e36	62	76	158	52	41	54	158	90
11	24	63	33	e35	51	72	139	50	60	47	193	77
12	23	47	32	40	51	88	127	49	44	43	226	67
13	23	41	31	37	55	160	191	48	38	41	177	62
14	23	37	86	36	93	100	144	46	35	38	147	59
15	22	34	55	38	99	137	132	45	40	35	120	70
16	22	32	137	37	101	145	122	43	36	34	105	57
17	22	39	326	34	176	128	113	42	31	34	94	52
18	22	35	129	81	96	110	106	41	28	33	86	50
19	21	32	104	657	82	99	101	60	27	33	74	49
20	21	e32	e85	290	76	110	97	73	37	78	73	62
21	21	e31	e75	156	75	161	92	52	48	55	62	54
22	21	e31	e68	119	76	155	88	49	55	42	58	48
23	21	28	e65	101	78	161	84	50	51	37	55	45
24	21	e28	e63	89	73	170	80	45	37	53	80	79
25	22	e96	e61	79	190	183	79	86	39	92	58	68
26	25	e92	e57	81	149	164	74	77	280	112	53	56
27	22	87	52	68	111	143	71	56	120	152	52	50
28	21	68	49	62	99	128	69	52	84	141	48	46
29	21	60	e47	61	--	446	66	50	85	279	46	43
30	20	54	e45	102	--	507	66	46	84	225	91	40
31	19	--	e45	76	--	395	--	43	--	129	68	--
TOTAL	717	1539	2040	2673	2293	4716	4563	1713	1754	2561	3405	2494
MEAN	23.1	51.3	65.8	86.2	81.9	152	152	55.3	58.5	82.6	110	83.1
MAX	31	227	326	657	190	507	332	86	280	279	226	377
MIN	19	19	31	34	49	72	66	41	27	33	46	40
CFSM	.53	1.18	1.52	1.99	1.89	3.51	3.51	1.28	1.35	1.91	2.54	1.92
IN.	.62	1.32	1.75	2.30	1.97	4.05	3.92	1.47	1.51	2.20	2.93	2.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	124	145	136	164	182	226	189	153	123	81.8	93.8	102
MAX	359	714	277	428	466	596	361	373	415	199	323	517
(WY)	1996	1978	1984	1995	1998	1979	1983	1976	1972	1967	1994	1979
MIN	15.8	24.9	41.5	62.2	76.6	69.1	59.7	53.1	34.8	23.3	27.3	14.6
(WY)	1994	1999	1966	1963	1988	1986	1986	1988	1986	1986	1993	1998

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1957 - 2001

ANNUAL TOTAL	33092		30468									
ANNUAL MEAN		90.4		83.5						143		
HIGHEST ANNUAL MEAN										227		1979
LOWEST ANNUAL MEAN										79.4		1988
HIGHEST DAILY MEAN		854	Mar 20		657	Jan 19				9960	Nov 6	1977
LOWEST DAILY MEAN		19	Oct 31		19	Oct 31				9.7	Sep 26	1999
ANNUAL SEVEN-DAY MINIMUM		20	Oct 29		20	Oct 29				11	Sep 20	1999
MAXIMUM PEAK FLOW					1680	Jan 19				32900*	Nov 6	1977
MAXIMUM PEAK STAGE							3.04	Jan 19		17.41*	Nov 6	1977
INSTANTANEOUS LOW FLOW							19*	Oct 31		9.4*	Sep 25	1999
ANNUAL RUNOFF (CFSM)		2.09				1.93				3.30		
ANNUAL RUNOFF (INCHES)		28.43				26.18				44.86		
10 PERCENT EXCEEDS		182			159					259		
50 PERCENT EXCEEDS		63			61					98		
90 PERCENT EXCEEDS		26			27					36		

e Estimated.

\* See REMARKS.

03463300 SOUTH TOE RIVER NEAR CELO, NC--Continued

