

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'03", 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 Celso, 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 NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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, Sept. 11, 12, 13, 2002. Minimum discharge for current water year also occurred Oct. 15.

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	115	88	80	345	78	189	138	383	167	99	214	192
2	97	80	78	210	73	179	147	265	149	1,260	145	137
3	84	75	76	231	73	157	138	239	174	355	179	120
4	73	75	81	190	127	143	126	206	190	227	182	218
5	66	86	204	172	92	137	158	465	155	209	157	146
6	60	127	135	159	84	425	133	1,200	141	190	126	126
7	56	103	113	144	84	229	171	677	879	187	171	114
8	52	90	104	137	77	190	154	449	475	157	262	104
9	49	84	99	130	73	171	220	354	310	143	266	95
10	48	82	98	123	77	154	437	299	245	145	305	88
11	49	306	283	113	71	142	443	263	211	123	336	83
12	47	264	186	e108	70	133	448	232	190	113	231	78
13	43	200	277	103	68	128	429	210	172	110	192	73
14	41	156	260	100	94	126	359	193	161	125	168	71
15	114	137	198	e97	289	118	299	183	153	114	234	110
16	424	279	172	e92	230	282	249	178	149	98	213	80
17	158	293	154	90	195	189	241	176	139	92	169	72
18	117	207	143	e86	159	271	1,610	203	136	85	144	68
19	100	174	136	e86	141	603	572	173	145	90	129	61
20	88	152	337	85	134	794	411	160	126	85	122	58
21	82	181	186	92	143	450	353	170	114	77	190	57
22	78	157	162	84	963	321	302	384	107	121	144	488
23	70	135	145	e81	486	263	260	288	101	114	121	453
24	67	125	270	e79	288	228	233	242	93	82	110	169
25	67	116	268	e77	232	203	216	219	89	75	102	132
26	75	108	203	e74	216	184	201	233	85	70	92	114
27	66	103	180	e72	234	168	183	198	83	67	87	132
28	105	94	162	e70	216	157	170	180	84	63	181	155
29	111	89	150	92	---	151	159	183	81	60	150	113
30	121	86	140	98	---	161	440	192	85	74	115	102
31	105	---	135	82	---	141	---	191	---	403	183	---
TOTAL	2,828	4,252	5,215	3,702	5,067	7,187	9,400	8,988	5,389	5,213	5,420	4,009
MEAN	91.2	142	168	119	181	232	313	290	180	168	175	134
MAX	424	306	337	345	963	794	1,610	1,200	879	1,260	336	488
MIN	41	75	76	70	68	118	126	160	81	60	87	57
CFSM	2.11	3.27	3.89	2.76	4.18	5.35	7.24	6.70	4.15	3.88	4.04	3.09
IN.	2.43	3.65	4.48	3.18	4.35	6.17	8.08	7.72	4.63	4.48	4.66	3.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)

	121	143	136	162	180	225	190	154	123	82.7	94.1	103
MEAN	121	143	136	162	180	225	190	154	123	82.7	94.1	103
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	22.5	14.6
(WY)	(1994)	(1999)	(1966)	(1966)	(1963)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1998)

03463300 SOUTH TOE RIVER NEAR CELO, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1957 - 2003	
ANNUAL TOTAL	38,097.1		66,670		143	
ANNUAL MEAN	104		183		79.4	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	1,670	Sep 27	1,610	Apr 18	9,960	Nov 6, 1977
LOWEST DAILY MEAN	9.5	Sep 12	41	Oct 14	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	11	Sep 8	47	Oct 8	11	Sep 20, 1999
MAXIMUM PEAK FLOW			3,730	Apr 18	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			4.94	Apr 18	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			40*	Oct 14	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	2.41		4.22		3.29	
ANNUAL RUNOFF (INCHES)	32.73		57.28		44.75	
10 PERCENT EXCEEDS	193		308		259	
50 PERCENT EXCEEDS	79		144		99	
90 PERCENT EXCEEDS	23		75		36	

e Estimated.  
 \* See REMARKS.

