

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 mi².

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 poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft³/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 May 31, June 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	e123	205	116	81	113	203	128	135	219	121	442
2	309	e122	165	113	79	104	364	116	676	190	109	332
3	278	e128	147	108	96	99	252	108	248	195	102	270
4	257	e350	136	105	92	97	231	102	177	182	97	229
5	237	192	128	102	85	104	232	102	138	159	96	202
6	222	136	134	100	85	102	213	97	127	141	106	179
7	210	117	141	94	83	105	202	91	126	686	168	159
8	203	105	125	100	86	198	399	87	811	387	782	144
9	198	96	211	92	92	138	309	83	311	254	367	132
10	187	90	223	89	97	124	236	94	241	215	254	121
11	176	86	182	85	83	117	204	90	246	771	194	114
12	172	241	159	83	80	112	193	80	1,040	1,140	160	107
13	205	195	146	116	85	114	246	77	1,420	481	147	101
14	174	153	133	432	99	143	343	78	618	372	138	95
15	155	147	124	170	94	120	260	87	402	852	127	90
16	144	131	117	142	92	123	219	79	308	831	118	92
17	139	122	112	123	88	120	192	73	253	480	111	88
18	136	115	107	e111	79	112	172	70	225	374	416	80
19	e137	109	103	e106	76	111	155	68	223	323	281	76
20	e135	105	e100	104	82	107	141	98	203	305	197	73
21	e132	99	e97	102	283	104	131	79	181	267	161	70
22	e134	95	93	e100	218	122	157	71	158	238	169	69
23	e145	122	689	e97	157	345	177	78	181	217	220	66
24	e140	382	270	e94	154	205	147	68	142	188	186	63
25	e134	298	203	88	139	167	133	64	129	168	158	65
26	e130	209	173	87	123	153	135	61	129	152	142	78
27	e128	183	153	82	114	184	140	59	503	139	130	69
28	e129	194	141	77	131	905	128	57	406	131	121	61
29	e132	161	134	86	---	347	141	56	346	144	236	59
30	e130	148	128	100	---	253	142	53	272	131	2,660	58
31	e125	---	122	86	---	211	---	51	---	131	772	---
TOTAL	5,484	4,754	5,101	3,490	3,053	5,359	6,197	2,505	10,375	10,463	9,046	3,784
MEAN	177	158	165	113	109	173	207	80.8	346	338	292	126
MAX	351	382	689	432	283	905	399	128	1,420	1,140	2,660	442
MIN	125	86	93	77	76	97	128	51	126	131	96	58
CFSM	4.09	3.66	3.80	2.60	2.52	3.99	4.77	1.87	7.99	7.79	6.74	2.91
IN.	4.71	4.08	4.38	3.00	2.62	4.60	5.32	2.15	8.91	8.99	7.77	3.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	123	145	137	159	178	221	189	151	126	87.7	97.3	127
MAX	359	714	277	428	466	596	361	373	415	338	323	1,268
(WY)	(1996)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(2005)	(1994)	(2004)
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	74,978		69,611		145	
ANNUAL MEAN	205		191		79.4	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	8,390	Sep 8	2,660	Aug 30	9,960	Nov 6, 1977
LOWEST DAILY MEAN	37	Jul 23	51	May 31	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	45	Aug 17	57	May 25	11	Sep 20, 1999
MAXIMUM PEAK FLOW			9,340	Aug 30	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			8.11	Aug 30	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			51*	May 30	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	4.73		4.40		3.35	
ANNUAL RUNOFF (INCHES)	64.42		59.80		45.47	
10 PERCENT EXCEEDS	256		336		260	
50 PERCENT EXCEEDS	96		134		99	
90 PERCENT EXCEEDS	51		81		37	

* See REMARKS.

e Estimated.

