

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 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, Sept. 11, 12, 13, 2002. Maximum gage height for current water year from high-water mark in gage house.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 8	unknown	28,000	15.50	Sep 17	unknown	22,000	13.0

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	78	135	112	e63	96	101	86	68	54	125	261
2	88	75	126	109	62	132	90	93	56	64	124	761
3	83	72	120	116	78	144	87	92	50	75	91	275
4	78	70	138	126	67	138	91	82	81	70	70	171
5	75	84	151	150	66	129	84	79	65	58	59	130
6	71	156	131	126	695	223	81	74	54	60	54	207
7	69	133	120	e100	312	148	84	71	51	55	48	e7,450
8	74	105	115	97	187	124	89	67	64	52	47	e8,390
9	304	93	112	95	156	111	86	86	56	49	47	e2,080
10	399	88	391	92	141	105	80	84	51	46	46	e805
11	271	83	275	e86	128	98	80	71	47	57	44	e566
12	202	80	193	84	128	93	146	71	43	60	60	e424
13	160	79	171	83	118	88	491	80	53	55	51	e313
14	143	71	190	80	113	85	230	81	49	50	47	e265
15	146	70	170	77	112	90	169	72	99	45	47	e222
16	124	70	156	74	105	121	149	70	99	43	45	305
17	113	69	187	74	99	101	130	89	87	42	42	e8,040
18	105	91	160	111	95	146	118	72	66	67	51	1,500
19	98	2,690	e157	89	93	154	111	70	58	50	46	832
20	92	547	e146	78	95	133	105	64	53	44	45	595
21	87	345	146	75	115	153	100	72	52	41	43	461
22	82	270	128	73	102	118	93	66	53	39	43	378
23	79	230	128	72	97	106	91	73	50	37	44	324
24	76	222	195	68	95	102	86	67	51	73	57	286
25	74	194	147	73	93	97	82	60	67	241	53	255
26	93	174	134	72	92	93	151	61	105	77	47	231
27	157	161	127	75	92	89	116	66	63	87	45	378
28	109	175	121	71	90	86	93	57	58	70	50	e1,200
29	95	157	117	e87	92	84	87	56	55	58	45	e520
30	87	143	137	65	---	88	84	57	54	82	52	e400
31	82	---	118	64	---	108	---	105	---	117	73	---
TOTAL	3,811	6,875	4,842	2,754	3,781	3,583	3,585	2,294	1,858	2,018	1,741	38,025
MEAN	123	229	156	88.8	130	116	120	74.0	61.9	65.1	56.2	1,268
MAX	399	2,690	391	150	695	223	491	105	105	241	125	8,390
MIN	69	69	112	64	62	84	80	56	43	37	42	130
CFSM	2.84	5.29	3.61	2.05	3.01	2.67	2.76	1.71	1.43	1.50	1.30	29.3
IN.	3.27	5.91	4.16	2.37	3.25	3.08	3.08	1.97	1.60	1.73	1.50	32.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

MEAN	121	144	136	160	179	222	189	153	122	82.4	93.3	127
MAX	359	714	277	428	466	596	361	373	415	199	323	1,268
(WY)	(1996)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1967)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	69,903		75,167		144	
ANNUAL MEAN	192		205		79.4	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	2,690	Nov 19	8,390	Sep 8	9,960	Nov 6, 1977
LOWEST DAILY MEAN	57	Sep 21	37	Jul 23	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	70	Jul 24	45	Aug 17	11	Sep 20, 1999
MAXIMUM PEAK FLOW			28,000	Sep 8	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			15.50*	Sep 8	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			35	Jul 24	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	4.42		4.74		3.32	
ANNUAL RUNOFF (INCHES)	60.06		64.58		45.17	
10 PERCENT EXCEEDS	340		257		259	
50 PERCENT EXCEEDS	145		90		98	
90 PERCENT EXCEEDS	77		51		36	

\* See REMARKS.

e Estimated.

