

Water-Data Report 2010

03463300 SOUTH TOE RIVER NEAR CELO, NC

French Broad-Holston Basin
Nolichucky Subbasin

LOCATION.--Lat 35°49'53", long 82°11'03" referenced to North American Datum of 1983, Yancey County, NC, 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 river mile 20.1.

DRAINAGE AREA.--43.3 mi².

SURFACE-WATER RECORDS

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 streamgage.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	121	284	132	181	213	113	185	92	76	38	23	16
2	109	199	409	163	281	114	181	91	77	36	24	16
3	100	171	335	e146	253	109	170	142	90	33	22	15
4	90	151	223	e135	222	104	157	115	82	32	23	16
5	94	138	193	e126	276	101	146	99	74	30	25	16
6	86	125	173	e119	273	99	137	92	71	29	24	16
7	85	117	160	e114	225	98	126	87	71	28	21	15
8	78	109	162	e110	204	102	163	81	65	27	20	14
9	73	103	681	e107	201	115	165	77	63	28	19	13
10	71	254	308	e105	190	141	126	76	63	30	18	11
11	70	985	241	e103	185	206	118	80	62	28	33	14
12	70	453	212	e102	167	486	111	76	63	40	33	19
13	71	304	273	e101	157	518	106	72	60	44	22	14
14	124	245	238	99	148	288	102	71	57	32	69	11
15	127	207	207	97	145	232	97	99	58	27	41	11
16	118	188	186	95	135	202	94	108	61	30	29	10
17	100	176	173	581	128	189	90	128	61	37	29	11
18	91	339	179	356	124	173	86	102	56	34	35	12
19	84	307	171	260	122	165	85	90	53	33	46	11
20	80	225	150	260	121	165	83	83	51	35	43	10
21	76	195	141	331	124	347	87	90	48	29	38	9.8
22	73	187	137	346	146	1,280	81	95	46	30	63	12
23	81	211	134	281	158	381	79	86	48	27	37	13
24	447	186	133	1,020	153	294	81	80	44	22	28	9.4
25	181	171	589	1,510	137	255	192	126	42	20	26	8.3
26	142	158	390	561	133	245	117	93	41	20	24	30
27	190	145	269	405	123	203	143	82	42	25	22	58
28	341	137	227	336	117	338	125	77	42	22	22	77
29	202	130	197	291	---	328	107	73	59	22	20	38
30	168	134	184	273	---	232	98	72	41	19	19	170
31	170	---	186	235	---	200	---	79	---	19	17	---
Total	3,913	6,734	7,393	8,949	4,861	7,823	3,638	2,814	1,767	906	915	696.5
Mean	126	224	238	289	174	252	121	90.8	58.9	29.2	29.5	23.2
Max	447	985	681	1,510	281	1,280	192	142	90	44	69	170
Min	70	103	132	95	117	98	79	71	41	19	17	8.3
Cfsm	2.92	5.18	5.51	6.67	4.01	5.83	2.80	2.10	1.36	0.67	0.68	0.54
In.	3.36	5.79	6.35	7.69	4.18	6.72	3.13	2.42	1.52	0.78	0.79	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	121	143	140	161	172	216	183	147	121	82.6	95.0	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	70.5	69.1	59.7	53.1	34.8	21.3	19.0	14.6
(WY)	(1994)	(1999)	(1966)	(1966)	(2007)	(1988)	(1986)	(1986)	(1988)	(2008)	(2007)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1957 - 2010	
Annual total	57,135		50,409.5			
Annual mean	157		138		142	
Highest annual mean					227	1979
Lowest annual mean					79.4	1988
Highest daily mean	1,320	Sep 20	1,510	Jan 25	9,960	Nov 6, 1977
Lowest daily mean	32	Aug 10	8.3	Sep 25	8.3	Sep 25, 2010
Annual seven-day minimum	38	Aug 6	10	Sep 19	9.3	Aug 18, 2008
Maximum peak flow			4,420	Jan 25	^a 32,900	Nov 6, 1977
Maximum peak stage			5.10	Jan 25	^a 17.41	Nov 6, 1977
Instantaneous low flow			7.9	Sep 25	7.9	Sep 25, 2010
Annual runoff (cfsm)	3.62		3.19		3.28	
Annual runoff (inches)	49.09		43.31		44.63	
10 percent exceeds	283		274		257	
50 percent exceeds	121		102		97	
90 percent exceeds	47		22		35	

^a See Remarks.

