

02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'55", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-5. March 1959 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 899.87 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.

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	74	69	61	58	53	66	83	97	63	427	53	60
2	73	68	58	57	52	66	70	113	52	385	52	55
3	71	69	57	57	113	64	65	91	48	337	52	50
4	73	68	64	57	94	63	61	77	49	254	48	46
5	72	77	81	60	77	62	57	70	49	169	46	45
6	71	97	71	65	838	63	55	65	46	123	45	46
7	74	83	65	55	598	60	54	60	46	103	42	259
8	74	79	62	54	214	58	55	57	69	89	41	5,870
9	86	72	60	56	143	57	53	116	65	81	41	907
10	81	69	133	56	118	58	51	81	52	74	41	317
11	79	69	207	55	102	57	52	66	57	72	40	187
12	78	70	109	55	104	57	127	125	64	72	65	139
13	74	67	89	56	97	55	452	226	306	68	63	117
14	76	64	186	56	93	55	318	123	110	63	48	107
15	85	65	141	56	90	57	161	93	161	59	46	97
16	72	66	113	54	88	63	119	77	361	56	45	92
17	71	66	110	53	80	58	99	77	147	56	43	178
18	71	67	98	60	78	58	88	84	99	61	96	195
19	71	281	88	61	76	61	81	74	82	99	53	116
20	69	130	79	54	74	55	77	69	69	61	47	94
21	70	86	73	52	72	55	73	63	92	56	48	86
22	69	73	71	52	69	53	69	59	153	53	53	80
23	67	68	69	52	66	52	66	57	136	52	48	75
24	68	69	69	52	66	52	64	55	206	50	104	72
25	67	67	65	53	65	52	62	53	148	52	80	69
26	70	63	63	56	64	52	70	51	215	52	55	67
27	102	61	61	52	67	52	76	51	143	59	49	74
28	78	68	60	52	66	52	61	49	120	103	55	587
29	73	70	60	52	68	e52	59	49	107	60	65	214
30	70	63	62	54	---	52	58	63	734	66	52	131
31	68	---	59	55	---	76	---	79	---	58	56	---
TOTAL	2,297	2,384	2,644	1,717	3,785	1,793	2,836	2,470	4,049	3,370	1,672	10,432
MEAN	74.1	79.5	85.3	55.4	131	57.8	94.5	79.7	135	109	53.9	348
MAX	102	281	207	65	838	76	452	226	734	427	104	5,870
MIN	67	61	57	52	52	52	51	49	46	50	40	45
CFSM	1.22	1.31	1.41	0.92	2.16	0.96	1.56	1.32	2.23	1.80	0.89	5.75
IN.	1.41	1.47	1.63	1.06	2.33	1.10	1.74	1.52	2.49	2.07	1.03	6.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	71.8	67.0	82.3	101	120	135	126	96.9	81.6	65.1	67.5	60.2
MAX	318	191	185	273	286	386	300	254	261	243	262	348
(WY)	(1965)	(1978)	(1962)	(1995)	(1960)	(1975)	(2003)	(1975)	(2003)	(2003)	(1970)	(2004)
MIN	17.4	17.2	22.7	30.9	37.8	44.6	36.1	18.3	14.9	11.4	8.09	21.0
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(1988)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02152100 FIRST BROAD RIVER NEAR CASAR, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	56,154		39,449			
ANNUAL MEAN	154		108		89.5	
HIGHEST ANNUAL MEAN					152	2003
LOWEST ANNUAL MEAN					26.8	2002
HIGHEST DAILY MEAN	2,550	Jul 13	5,870	Sep 8	5,870	Sep 8, 2004
LOWEST DAILY MEAN	33	Jan 27	40	Aug 11	3.9	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	36	Jan 22	42	Aug 5	4.1	Aug 9, 2002
MAXIMUM PEAK FLOW			12,500	Sep 8	12,500	Sep 8, 2004
MAXIMUM PEAK STAGE			19.89	Sep 8	19.89	Sep 8, 2004
INSTANTANEOUS LOW FLOW			38	Aug 11	3.6	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.54		1.78		1.48	
ANNUAL RUNOFF (INCHES)	34.53		24.26		20.09	
10 PERCENT EXCEEDS	268		140		148	
50 PERCENT EXCEEDS	98		67		63	
90 PERCENT EXCEEDS	56		52		31	

e Estimated.

