

02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'56", 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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	61	136	104	90	273	149	95	66	71	150	54
2	e98	62	124	101	87	172	159	86	116	74	88	51
3	e93	81	115	98	106	138	133	84	81	203	74	49
4	e84	747	106	97	103	123	124	82	72	215	67	47
5	76	332	98	96	97	117	116	83	64	115	65	46
6	72	167	97	95	92	110	110	83	61	90	66	45
7	71	125	107	93	90	105	112	80	60	1,620	66	44
8	68	107	98	97	90	112	137	78	71	683	95	44
9	68	95	286	90	88	98	141	75	91	221	97	43
10	67	86	761	89	86	94	126	75	126	135	87	42
11	65	83	343	87	82	92	117	74	99	114	75	41
12	63	260	217	87	82	90	113	71	80	123	66	40
13	219	257	168	98	81	88	200	69	84	119	62	40
14	95	157	137	385	83	88	476	85	76	109	60	39
15	81	126	123	182	83	83	282	84	65	145	66	39
16	72	113	115	139	84	89	183	83	59	106	57	38
17	67	103	111	121	79	96	145	71	56	92	98	39
18	66	97	107	110	75	89	132	70	96	84	223	38
19	72	93	104	106	74	85	123	68	172	81	109	36
20	71	91	96	105	e69	84	116	99	112	75	79	36
21	67	86	94	102	e95	82	110	80	90	73	68	36
22	66	83	93	97	e107	84	111	70	77	70	62	36
23	65	96	435	93	e96	154	131	69	69	79	90	36
24	70	135	315	88	111	137	106	65	65	69	72	35
25	66	226	192	91	103	115	102	62	62	64	64	34
26	63	144	152	91	95	105	99	62	64	61	60	38
27	64	123	132	86	92	101	103	60	134	58	58	41
28	63	126	120	82	347	1,100	94	59	102	57	56	37
29	65	108	116	86	---	421	92	59	88	106	55	37
30	65	101	112	104	---	234	97	59	83	77	62	35
31	64	---	107	100	---	175	---	58	---	150	70	---
TOTAL	2,394	4,471	5,317	3,400	2,767	4,934	4,239	2,298	2,541	5,339	2,467	1,216
MEAN	77.2	149	172	110	98.8	159	141	74.1	84.7	172	79.6	40.5
MAX	219	747	761	385	347	1,100	476	99	172	1,620	223	54
MIN	63	61	93	82	69	82	92	58	56	57	55	34
CFSM	1.28	2.46	2.83	1.81	1.63	2.63	2.34	1.23	1.40	2.85	1.32	0.67
IN.	1.47	2.75	3.27	2.09	1.70	3.03	2.61	1.41	1.56	3.28	1.52	0.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

	71.9	68.8	84.2	101	120	136	126	96.4	81.7	67.4	67.7	59.8
MEAN	71.9	68.8	84.2	101	120	136	126	96.4	81.7	67.4	67.7	59.8
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL TOTAL	44,306		41,383		90.0	
ANNUAL MEAN	121		113		26.8	
HIGHEST ANNUAL MEAN					152	2003
LOWEST ANNUAL MEAN					26.8	2002
HIGHEST DAILY MEAN	5,870	Sep 8	1,620	Jul 7	5,870	Sep 8, 2004
LOWEST DAILY MEAN	40	Aug 11	34	Sep 25	3.9	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	42	Aug 5	36	Sep 19	4.1	Aug 9, 2002
MAXIMUM PEAK FLOW			5,120	Jul 7	12,500	Sep 8, 2004
MAXIMUM PEAK STAGE			11.82	Jul 7	19.89	Sep 8, 2004
INSTANTANEOUS LOW FLOW			33	Sep 25	3.6	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.00		1.87		1.49	
ANNUAL RUNOFF (INCHES)	27.24		25.45		20.21	
10 PERCENT EXCEEDS	181		158		148	
50 PERCENT EXCEEDS	69		90		63	
90 PERCENT EXCEEDS	52		58		31	

e Estimated.

