

## 02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'15", long 81°52'19", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--WDR NC-03-1B: 2000 (M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair.

REVISIONS.--The maximum discharge for the water year 2000 has been revised to 2,080 ft<sup>3</sup>/s, Mar. 20, 2000, gage height, 11.05 ft.

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	119	117	110	111	98	110	129	155	96	319	78	82
2	118	115	107	111	99	111	111	163	84	352	93	95
3	115	115	105	110	186	110	104	137	79	280	85	92
4	117	114	114	111	156	109	100	118	85	227	73	76
5	116	125	137	115	138	108	94	108	85	211	72	70
6	116	135	125	112	945	113	91	101	80	143	77	73
7	117	130	118	105	835	107	90	96	79	121	69	293
8	118	127	114	104	374	103	90	91	80	108	66	3,320
9	133	119	111	107	270	101	90	132	81	100	65	947
10	127	115	209	106	209	102	89	110	78	94	65	475
11	130	116	341	103	175	98	90	95	77	90	70	337
12	124	117	209	104	178	97	200	89	85	91	97	240
13	120	115	166	104	165	94	517	101	203	91	99	173
14	122	109	285	104	152	94	399	96	121	84	77	137
15	133	110	230	103	153	100	243	91	310	79	73	119
16	118	111	186	102	154	108	172	88	506	76	72	113
17	117	111	185	101	141	101	144	117	224	75	70	861
18	116	112	163	114	136	101	130	244	143	82	93	523
19	116	457	151	108	132	103	120	132	113	82	75	280
20	113	272	140	101	129	96	115	147	99	83	69	204
21	114	174	132	99	126	96	110	113	130	74	70	153
22	114	141	129	99	119	92	104	100	378	71	73	133
23	111	127	128	98	116	90	100	95	210	70	71	122
24	112	126	133	98	115	90	97	90	245	68	115	114
25	111	123	124	103	113	89	95	87	206	105	98	108
26	114	116	119	105	113	89	108	84	280	81	74	104
27	195	113	116	101	117	90	123	85	188	87	66	108
28	142	123	115	99	116	89	98	81	153	113	69	586
29	129	122	114	101	112	88	92	83	136	88	75	312
30	121	113	117	104	---	91	92	98	181	92	66	206
31	118	---	112	103	---	118	---	109	---	84	95	---
TOTAL	3,786	4,120	4,645	3,246	5,872	3,088	4,137	3,436	4,815	3,721	2,410	10,456
MEAN	122	137	150	105	202	99.6	138	111	160	120	77.7	349
MAX	195	457	341	115	945	118	517	244	506	352	115	3,320
MIN	111	109	105	98	98	88	89	81	77	68	65	70
CFSM	1.42	1.59	1.74	1.21	2.35	1.16	1.60	1.29	1.86	1.39	0.90	4.04
IN.	1.63	1.78	2.00	1.40	2.53	1.33	1.79	1.48	2.08	1.61	1.04	4.51

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	59.1	72.4	91.6	81.7	112	122	143	101	99.6	92.8	93.0	109
MAX	122	137	167	115	202	216	368	276	275	275	384	349
(WY)	(2004)	(2004)	(2003)	(1999)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	25.5	33.8	46.2	50.8	57.7	88.8	66.2	34.4	31.1	21.4	13.9	27.9
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	77,756		53,732			
ANNUAL MEAN	213		147		97.8	
HIGHEST ANNUAL MEAN					205	2003
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	1,960	Apr 18	3,320	Sep 8	3,320	Sep 8, 2004
LOWEST DAILY MEAN	56	Jan 25	65	Aug 9	6.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	59	Jan 22	69	Aug 5	8.0	Sep 7, 2002
MAXIMUM PEAK FLOW			4,450	Sep 8	4,450	Sep 8, 2004
MAXIMUM PEAK STAGE			15.91	Sep 8	15.91	Sep 8, 2004
INSTANTANEOUS LOW FLOW			61	Aug 28	6.1	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	2.47		1.70		1.13	
ANNUAL RUNOFF (INCHES)	33.56		23.19		15.42	
10 PERCENT EXCEEDS	424		209		174	
50 PERCENT EXCEEDS	140		111		65	
90 PERCENT EXCEEDS	76		79		26	

