

## 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.--Records fair except those for estimated daily discharges and those above 2,500 ft<sup>3</sup>/s, which are poor. Maximum discharge for period of record from rating curve extended above 2,500 ft<sup>3</sup>/s by logarithmic plotting. Minimum discharge for current water year also occurred Oct. 9.

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	45	49	105	68	133	138	186	146	149	660	161
2	29	43	49	98	65	127	128	350	139	1,020	334	153
3	27	41	48	104	64	114	122	256	190	466	477	159
4	26	41	50	96	71	105	117	201	506	283	701	159
5	25	44	118	90	67	102	124	218	267	218	402	152
6	24	69	127	86	63	226	117	831	201	187	294	146
7	24	57	110	81	74	209	274	796	708	173	734	143
8	23	50	98	79	74	162	256	499	1,450	162	638	142
9	23	48	88	77	70	138	341	335	805	149	489	135
10	24	50	83	74	71	120	1,350	262	426	163	842	132
11	35	206	223	69	70	109	1,220	222	309	154	688	130
12	30	217	183	66	68	102	497	198	245	151	822	128
13	28	175	306	65	65	97	339	177	206	1,340	443	127
14	26	120	350	64	68	94	262	166	183	472	343	126
15	68	95	203	63	97	90	215	160	181	316	585	128
16	357	188	150	61	98	173	187	169	188	255	356	127
17	138	321	122	64	104	156	170	178	195	226	307	123
18	78	183	105	59	110	181	1,960	192	178	183	270	121
19	59	128	96	59	122	211	735	179	201	215	281	121
20	51	104	245	60	116	1,560	423	167	168	227	229	117
21	48	93	187	62	106	654	330	162	152	180	210	116
22	66	84	143	60	733	354	271	445	142	171	219	123
23	54	74	119	63	523	255	220	487	137	164	207	273
24	48	68	577	e59	275	197	197	355	132	153	189	152
25	45	64	457	e56	193	163	185	275	128	140	181	135
26	50	61	244	58	154	147	199	228	125	134	174	129
27	44	58	174	58	159	136	182	197	129	130	169	128
28	45	55	140	57	148	127	165	178	138	128	163	137
29	51	53	122	61	---	124	158	171	136	135	160	122
30	54	52	109	74	---	170	155	161	128	149	158	119
31	49	---	98	72	---	153	---	155	---	542	164	---
TOTAL	1,682	2,887	5,173	2,200	3,896	6,689	11,037	8,556	8,239	8,535	11,889	4,164
MEAN	54.3	96.2	167	71.0	139	216	368	276	275	275	384	139
MAX	357	321	577	105	733	1,560	1,960	831	1,450	1,340	842	273
MIN	23	41	48	56	63	90	117	155	125	128	158	116
CFSM	0.63	1.12	1.94	0.82	1.61	2.50	4.27	3.20	3.19	3.19	4.45	1.61
IN.	0.73	1.25	2.23	0.95	1.68	2.89	4.76	3.69	3.56	3.68	5.13	1.80

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	46.5	59.4	80.0	77.2	93.2	126	144	98.8	87.5	87.4	96.1	60.7
MAX	72.6	96.2	167	115	139	216	368	276	275	275	384	139
(WY)	(1999)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	23,029.1		74,947		88.0	
ANNUAL MEAN	63.1		205		205	
HIGHEST ANNUAL MEAN					205	2003
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	577	Dec 24	1,960	Apr 18	1,960	Apr 18, 2003
LOWEST DAILY MEAN	6.6	Sep 12	23	Oct 8	6.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 7	24	Oct 4	8.0	Sep 7, 2002
MAXIMUM PEAK FLOW			3,000	Apr 18	3,000*	Apr 18, 2003
MAXIMUM PEAK STAGE			14.89	Apr 18	14.89	Apr 18, 2003
INSTANTANEOUS LOW FLOW			22*	Oct 8	6.1	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	0.73		2.38		1.02	
ANNUAL RUNOFF (INCHES)	9.94		32.34		13.87	
10 PERCENT EXCEEDS	122		433		165	
50 PERCENT EXCEEDS	49		143		56	
90 PERCENT EXCEEDS	15		53		25	

e Estimated.  
 \* See REMARKS.

