

0212393300 WEST BRANCH ROCKY RIVER BELOW MOUTH OF SOUTH PRONG RIVER NEAR CORNELIUS, NC

LOCATION.--Lat 35°28'04", long 80°47'25", Mecklenburg County, Hydrologic Unit 03040105, on downstream side of box culvert on River Ford Road, 30 ft downstream of mouth of South Prong River, and 4.0 mi southwest of Cornelius.

DRAINAGE AREA.--20.8 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.42 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor.

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	13	6.2	16	8.8	9.4	36	25	16	8.5	3.3	5.3	2.1
2	20	6.4	14	8.3	9.2	23	26	9.1	34	4.9	4.3	2.0
3	57	8.8	13	8.5	30	19	20	8.7	9.8	4.0	4.1	1.9
4	29	77	12	8.2	16	18	19	8.2	7.8	41	4.0	1.9
5	16	23	12	8.2	11	17	19	8.3	7.0	8.2	3.3	1.7
6	12	14	14	8.3	10	15	17	8.5	6.5	6.5	3.1	1.6
7	9.9	12	21	8.0	9.8	15	19	7.9	8.0	6.9	3.0	1.6
8	8.9	10	14	8.0	9.9	41	24	7.8	9.4	6.0	7.8	1.5
9	8.5	9.5	82	7.3	9.6	19	19	7.3	7.1	e5.4	29	1.4
10	8.0	9.2	369	7.3	9.5	16	17	9.0	13	5.3	22	1.3
11	7.4	8.8	45	7.1	e9.0	16	16	9.3	7.3	4.7	5.7	1.2
12	7.4	37	25	7.1	e9.3	15	22	7.0	6.2	4.9	4.6	1.2
13	7.6	23	19	7.3	e9.0	15	38	7.1	6.7	4.2	4.0	1.1
14	7.0	14	15	123	e10	16	116	11	5.5	4.0	3.7	1.1
15	6.6	12	13	21	e8.8	14	29	9.4	5.2	3.3	3.3	1.1
16	6.3	12	12	16	8.3	41	23	7.5	4.8	2.8	5.0	3.8
17	6.2	11	12	13	8.1	44	21	7.2	4.5	3.2	3.1	1.5
18	6.5	11	11	12	8.0	26	20	6.9	4.3	2.8	42	0.84
19	6.5	10	11	12	7.8	19	18	6.6	5.1	2.3	7.7	0.87
20	6.3	10	9.7	12	8.0	18	17	16	5.4	2.0	5.7	0.93
21	6.2	9.6	9.4	11	21	17	16	7.7	4.3	2.0	4.8	1.1
22	6.2	9.6	9.1	11	14	18	16	6.8	4.1	2.0	4.4	1.2
23	6.3	15	27	10	10	72	15	7.4	4.0	1.9	4.0	1.4
24	6.7	25	13	10	50	28	12	6.2	3.7	1.4	3.9	1.2
25	6.2	23	11	9.8	17	20	12	5.9	3.7	1.5	3.4	1.1
26	6.1	14	11	9.3	12	18	11	5.9	3.9	1.5	3.0	1.3
27	6.0	17	9.9	8.3	11	18	11	5.6	4.2	1.4	2.9	1.3
28	11	39	9.8	8.3	150	353	10	5.5	6.6	2.5	2.9	1.2
29	7.0	17	9.9	9.1	---	51	9.8	5.2	4.4	36	2.8	1.4
30	6.5	15	9.4	14	---	32	11	5.0	3.6	9.2	2.8	1.3
31	6.3	---	8.8	11	---	28	---	5.1	---	19	2.4	---
TOTAL	324.6	509.1	868.0	423.2	495.7	1,098	648.8	245.1	208.6	204.1	208.0	43.14
MEAN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.58	6.71	1.44
MAX	57	77	369	123	150	353	116	16	34	41	42	3.8
MIN	6.0	6.2	8.8	7.1	7.8	14	9.8	5.0	3.6	1.4	2.4	0.84
CFSM	0.50	0.82	1.35	0.66	0.85	1.70	1.04	0.38	0.33	0.32	0.32	0.07
IN.	0.58	0.91	1.55	0.76	0.89	1.96	1.16	0.44	0.37	0.37	0.37	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.68	4.92	27.4
MAX	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.78	6.71	53.4
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)
MIN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.58	3.12	1.44
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005

ANNUAL TOTAL								5,276.34				
ANNUAL MEAN								14.5		14.5		
HIGHEST ANNUAL MEAN										14.5		2005
LOWEST ANNUAL MEAN										14.5		2005
HIGHEST DAILY MEAN	1,040	Sep 28					369	Dec 10	1,040	Sep 28, 2004		
LOWEST DAILY MEAN	1.4	Aug 11					0.84	Sep 18	0.84	Sep 18, 2005		
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 5					1.1	Sep 18	1.1	Sep 18, 2005		
MAXIMUM PEAK FLOW							1,460	Dec 10	2,350	Sep 28, 2004		
MAXIMUM PEAK STAGE							9.69	Dec 10	12.59	Sep 28, 2004		
INSTANTANEOUS LOW FLOW							0.63	Sep 20	0.63	Sep 20, 2005		
ANNUAL RUNOFF (CFSM)							0.695		0.695			
ANNUAL RUNOFF (INCHES)							9.44		9.44			
10 PERCENT EXCEEDS							24		24			
50 PERCENT EXCEEDS							8.8		8.8			
90 PERCENT EXCEEDS							2.1		2.1			

e Estimated.

