

## 0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'02", long 80°58'22", Mecklenburg County, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, .6 mi upstream from bridge on NC Highway 27 and 0.55 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage 610 ft above NGVD of 1929, from topographic map. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Minimum discharge for period of record also occurred on Sept. 3, 2001.

REVISIONS.--The maximum discharge for the water year 2001 has been revised to 1,710 ft<sup>3</sup>/s, Mar. 29, 2001, gage height, 9.45 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	10	7.2	6.7	13	10	83	60	25	6.4	14	10	7.3
2	9.8	7.0	6.3	12	10	54	18	36	4.2	12	25	6.1
3	9.5	6.8	6.3	11	79	31	14	39	3.6	11	23	5.2
4	9.6	7.1	7.0	9.4	24	25	13	20	3.6	10	8.8	4.8
5	9.6	8.6	13	35	16	21	13	11	4.0	11	17	4.4
6	9.6	7.9	8.4	33	268	20	12	9.2	3.5	15	14	4.4
7	10	7.5	7.3	12	204	18	11	8.2	3.5	8.1	7.5	333
8	12	7.5	7.6	11	43	17	11	7.9	11	7.8	6.7	714
9	25	7.2	7.5	11	29	16	10	9.2	4.5	7.0	6.5	63
10	13	6.8	72	11	25	16	9.9	26	4.1	5.8	6.0	28
11	44	7.1	52	9.4	22	15	10	8.6	3.5	7.8	7.2	20
12	16	7.4	17	9.5	106	15	36	7.5	3.1	11	106	17
13	12	7.6	20	9.3	47	14	162	8.4	3.3	8.7	53	16
14	11	7.7	197	9.0	29	13	50	7.1	132	6.0	154	15
15	15	7.8	38	11	39	14	24	6.5	95	5.2	30	13
16	10	8.2	21	8.5	41	22	18	6.0	34	4.9	16	13
17	9.6	8.4	34	8.5	24	17	15	6.4	13	16	12	168
18	9.7	9.0	22	16	20	14	14	5.8	9.0	151	8.8	46
19	9.7	27	16	13	18	17	14	5.4	6.9	18	8.1	17
20	9.7	12	14	9.5	17	13	12	5.1	6.0	11	7.1	14
21	9.6	7.3	13	9.0	17	14	11	4.9	215	9.9	13	12
22	10	6.9	12	11	15	12	10	4.7	35	8.5	17	10
23	11	6.6	13	9.7	15	12	10	4.6	84	7.8	7.6	9.5
24	11	6.9	13	8.9	15	12	9.3	7.7	55	7.1	6.5	9.3
25	8.3	6.9	12	9.6	14	11	8.8	4.3	243	6.5	6.0	9.1
26	7.8	6.9	11	11	16	11	9.4	4.3	252	6.4	6.0	8.9
27	14	6.9	11	10	37	11	13	4.7	35	174	5.6	47
28	14	7.5	11	14	75	11	8.8	4.1	22	72	5.6	830
29	36	9.5	11	16	93	11	8.1	3.8	14	112	5.7	66
30	9.8	6.9	12	15	---	12	8.1	3.7	15	25	15	30
31	7.4	---	11	12	---	34	---	12	---	12	12	---
TOTAL	403.7	248.1	703.1	388.3	1,368	606	623.4	317.1	1,324.2	782.5	626.7	2,541.0
MEAN	13.0	8.27	22.7	12.5	47.2	19.5	20.8	10.2	44.1	25.2	20.2	84.7
MAX	44	27	197	35	268	83	162	39	252	174	154	830
MIN	7.4	6.6	6.3	8.5	10	11	8.1	3.7	3.1	4.9	5.6	4.4
CFSM	0.41	0.26	0.72	0.40	1.50	0.62	0.66	0.32	1.40	0.80	0.64	2.69
IN.	0.48	0.29	0.83	0.46	1.62	0.72	0.74	0.37	1.56	0.92	0.74	3.00

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

MEAN	13.1	13.8	25.3	25.6	36.6	55.5	43.6	31.7	28.0	20.3	15.4	24.6
MAX	31.1	45.1	87.5	39.8	68.8	146	163	146	96.6	56.5	47.5	84.7
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	1.60	3.29	6.29	9.69	13.9	13.0	9.02	7.61	5.00	4.66	1.43	5.41
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2001)	(2002)	(2001)	(2001)	(1999)

0214291555 LONG CREEK NEAR RHYNE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	24,936.3		9,932.1		27.7	
ANNUAL MEAN	68.3		27.1		78.4	
HIGHEST ANNUAL MEAN					10.7	2003
LOWEST ANNUAL MEAN					10.7	2002
HIGHEST DAILY MEAN	2,390	May 22	830	Sep 28	2,390	May 22, 2003
LOWEST DAILY MEAN	5.5	Sep 20	3.1	Jun 12	0.12	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	6.0	Sep 15	4.1	Jun 1	0.23	Aug 8, 2002
MAXIMUM PEAK FLOW			1,310	Sep 28	3,570	May 22, 2003
MAXIMUM PEAK STAGE			8.66	Sep 28	12.04	May 22, 2003
INSTANTANEOUS LOW FLOW			2.3*	Jul 12	0.02*	Sep 2, 2001
ANNUAL RUNOFF (CFSM)	2.17		0.862		0.880	
ANNUAL RUNOFF (INCHES)	29.46		11.73		11.96	
10 PERCENT EXCEEDS	131		46		47	
50 PERCENT EXCEEDS	23		11		8.6	
90 PERCENT EXCEEDS	7.5		6.0		2.3	

\* See REMARKS.

