

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 mi².

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

REVISED RECORDS.--WDR NC-04-1: 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage 612.45 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. 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 current water year and period of record also occurred on Sept. 23, 25, 26, 27, 30, 2005.

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	19	7.7	13	10	17	67	48	29	16	14	14	1.8
2	15	8.0	11	10	15	33	38	14	165	12	9.0	1.4
3	66	8.7	10	10	94	25	28	12	23	9.8	7.1	1.5
4	32	126	9.3	10	42	21	24	12	12	13	6.5	1.8
5	14	31	8.9	10	21	19	23	11	8.8	8.9	6.0	1.6
6	11	11	9.5	10	17	17	21	12	18	10	5.9	1.1
7	11	9.4	17	9.8	16	17	21	11	35	25	5.8	1.1
8	10	8.6	9.7	9.7	15	156	36	11	60	21	165	1.4
9	9.6	8.4	54	9.5	15	42	35	10	385	9.4	63	1.7
10	9.6	8.4	455	10	15	25	21	14	352	8.1	9.3	1.4
11	9.2	8.1	57	10	14	20	19	28	49	11	6.2	1.1
12	8.8	24	29	9.7	13	18	79	12	24	31	5.4	1.4
13	9.8	24	21	9.9	13	17	188	11	20	15	5.2	0.91
14	9.1	9.1	17	276	17	26	291	11	18	8.6	10	1.5
15	8.4	8.1	15	40	19	18	48	12	16	7.4	7.5	1.3
16	7.8	8.2	14	24	14	121	29	11	14	6.9	3.1	0.87
17	7.5	7.9	13	20	21	154	23	10	13	6.6	3.3	1.8
18	7.7	7.8	13	17	13	48	20	10	10	6.2	4.2	4.5
19	7.9	7.7	13	16	13	28	18	9.7	37	7.9	3.1	6.8
20	8.2	7.8	12	16	13	22	17	27	18	6.1	2.3	2.9
21	8.5	7.6	11	16	50	19	16	12	14	5.8	1.9	2.0
22	8.2	7.9	12	15	32	27	16	9.5	11	9.6	1.8	1.0
23	7.7	9.1	67	15	17	193	20	9.3	11	11	2.9	0.72
24	9.1	52	27	14	102	51	15	8.8	10	6.1	3.6	0.60
25	8.9	50	15	14	34	29	14	8.3	10	5.5	2.1	0.57
26	7.7	13	13	14	20	22	13	8.1	20	5.1	1.5	0.53
27	7.7	16	12	13	18	23	14	7.7	95	4.9	2.6	0.73
28	8.7	95	11	12	363	857	13	7.4	366	24	1.8	1.6
29	9.1	15	11	13	---	97	13	7.4	45	82	1.5	1.7
30	8.8	11	11	40	---	47	17	7.6	20	83	1.8	0.70
31	8.0	---	11	28	---	58	---	7.9	---	75	3.2	---
TOTAL	374.0	616.5	1,002.4	731.6	1,053	2,317	1,178	371.7	1,895.8	549.9	366.6	48.03
MEAN	12.1	20.6	32.3	23.6	37.6	74.7	39.3	12.0	63.2	17.7	11.8	1.60
MAX	66	126	455	276	363	857	291	29	385	83	165	6.8
MIN	7.5	7.6	8.9	9.5	13	17	13	7.4	8.8	4.9	1.5	0.53
CFSM	0.38	0.65	1.03	0.75	1.19	2.37	1.25	0.38	2.01	0.56	0.38	0.05
IN.	0.44	0.73	1.18	0.86	1.24	2.74	1.39	0.44	2.24	0.65	0.43	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	12.9	14.8	26.3	25.3	36.8	58.3	43.0	28.9	33.0	19.9	14.9	21.3
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	1.60
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2001)	(2002)	(2001)	(2001)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	10,570.1		10,504.53			
ANNUAL MEAN	28.9		28.8		27.9	
HIGHEST ANNUAL MEAN					78.4	2003
LOWEST ANNUAL MEAN					10.7	2002
HIGHEST DAILY MEAN	830	Sep 28	857	Mar 28	2,390	May 22, 2003
LOWEST DAILY MEAN	3.1	Jun 12	0.53	Sep 26	0.12	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	4.1	Jun 1	0.82	Sep 22	0.23	Aug 8, 2002
MAXIMUM PEAK FLOW			1,860	Jun 9	3,570	May 22, 2003
MAXIMUM PEAK STAGE			9.40	Jun 9	12.04	May 22, 2003
INSTANTANEOUS LOW FLOW			0.00*	Sep 22	0.00*	Sep 22, 2005
ANNUAL RUNOFF (CFSM)	0.917		0.914		0.885	
ANNUAL RUNOFF (INCHES)	12.49		12.41		12.03	
10 PERCENT EXCEEDS	53		50		48	
50 PERCENT EXCEEDS	11		12		9.3	
90 PERCENT EXCEEDS	6.0		2.8		2.3	

* See REMARKS.

