

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'46", long 78°51'35", Durham County, Hydrologic Unit 03020201, 125 ft downstream of the mouth of Little River tributary and 0.5 mi downstream of Little River dam.

DRAINAGE AREA.--98.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. The period Oct. 1, 2001 through Jan. 24, 2002 is poor due to the effects of beaver dams on the gage height-discharge relationship. Flow regulated by releases from the Little River Reservoir. Maximum discharge for period of record from extension of rating curve based on contracted-opening measurement of peak flow. Maximum gage height for period of record from floodmarks. Instantaneous low flow for the period of record not determined due to the effects of beaver dams on the gage height-discharge relationship.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.6	2.3	2.1	3.4	1.3	13	5.3	4.0	0.71	0.76	7.6
2	1.9	1.5	2.0	1.9	3.9	3.5	7.9	5.4	1.7	0.85	1.0	0.94
3	1.8	1.8	2.2	1.9	3.6	4.5	6.8	5.3	1.6	0.79	0.90	0.66
4	1.4	1.8	2.2	e2.0	3.5	1.7	6.4	5.8	1.6	0.79	0.79	0.59
5	1.3	2.2	2.4	e1.7	3.5	1.3	6.2	5.6	e1.7	0.73	0.79	0.54
6	1.6	2.2	2.5	e1.7	3.5	1.2	6.0	5.3	e1.6	0.72	0.77	0.51
7	2.3	2.2	2.3	13	13	1.2	5.9	5.5	e1.6	0.72	0.74	0.47
8	2.8	2.2	2.2	4.9	5.4	1.3	5.8	5.7	e1.5	0.74	0.61	0.47
9	2.6	2.2	2.0	e2.1	3.6	1.4	5.7	5.7	e1.5	0.76	0.55	0.53
10	2.6	2.4	3.4	2.6	3.0	1.4	7.5	5.7	e1.4	1.0	0.61	0.55
11	2.8	1.9	11	3.6	2.9	1.3	6.0	5.7	e1.4	3.2	0.59	0.54
12	2.7	2.3	6.3	3.1	2.6	1.7	5.9	5.1	e1.3	1.0	0.64	0.50
13	2.6	1.9	9.3	6.7	2.6	1.6	5.9	5.9	e1.3	0.94	0.69	0.48
14	5.9	1.9	8.0	3.6	2.4	1.4	5.9	5.9	e1.2	0.96	0.84	1.6
15	3.7	2.0	8.5	3.8	2.2	1.4	5.7	5.2	e1.2	1.0	0.95	1.6
16	2.6	2.0	10	4.0	2.3	1.3	5.7	6.2	e1.1	0.99	0.80	1.2
17	2.3	2.1	10	4.0	2.2	3.9	5.7	6.4	e1.1	1.0	0.74	0.65
18	2.4	2.1	16	3.5	2.1	3.5	5.7	6.1	e1.0	1.1	1.0	0.52
19	2.5	2.0	11	28	2.0	2.1	5.7	5.9	e1.0	1.3	0.78	0.50
20	2.5	2.0	8.7	18	2.2	1.8	5.5	5.6	e0.95	2.6	0.69	0.48
21	2.4	2.1	7.6	6.7	2.2	6.5	5.5	5.5	e0.95	1.2	0.68	0.50
22	2.2	1.7	6.4	4.5	2.0	9.2	5.5	5.6	e0.90	0.88	0.68	0.53
23	1.8	1.7	6.2	18	1.8	8.6	5.4	5.7	e0.90	3.0	0.63	0.60
24	1.6	2.4	8.5	6.8	1.7	8.5	5.5	5.6	e0.90	2.2	0.49	0.72
25	2.9	2.4	6.2	6.5	1.6	8.7	5.5	5.8	e0.86	1.1	0.48	0.73
26	2.2	2.2	4.7	4.2	1.6	9.8	5.2	5.9	e0.86	1.7	1.1	0.76
27	2.4	2.0	3.5	4.4	1.7	13	5.2	5.9	0.83	0.88	1.0	0.87
28	2.3	2.2	2.8	4.0	1.3	9.1	5.3	5.9	1.1	0.82	0.93	0.97
29	2.0	2.3	2.5	3.8	---	8.7	5.3	6.0	1.1	0.79	0.49	0.95
30	1.8	2.3	1.8	3.6	---	9.0	5.3	5.8	0.74	0.83	6.0	1.0
31	1.5	---	1.9	3.4	---	8.5	---	5.4	---	0.81	21	---
TOTAL	73.7	61.6	174.4	193.4	83.8	138.4	182.6	176.4	38.89	36.11	48.72	28.56
MEAN	2.377	2.053	5.626	6.239	2.993	4.465	6.087	5.690	1.296	1.165	1.572	0.952
MAX	5.9	2.4	16	28	13	13	13	6.4	4.0	3.2	21	7.6
MIN	1.3	1.5	1.8	1.7	1.3	1.2	5.2	5.1	0.74	0.71	0.48	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002	2002	2002	2002	2002	2002
MEAN	13.36	31.88	53.31	103.1	149.4	200.2	117.9	29.34	8.509	3.629	6.945	152.6
MAX	36.0	149	161	333	509	705	221	88.4	23.8	4.88	29.4	538
(WY)	1997	1996	1996	1998	1998	1998	1997	1996	1997	1996	1996	1996
MIN	2.02	2.03	1.07	1.15	2.99	4.46	6.09	5.69	1.30	1.16	1.57	0.95
(WY)	1998	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

ANNUAL TOTAL	11148.65	1236.58	
ANNUAL MEAN	30.54	3.388	
HIGHEST ANNUAL MEAN			63.87
LOWEST ANNUAL MEAN			144
HIGHEST DAILY MEAN	3960	Mar 30	10300
LOWEST DAILY MEAN	0.43	Jan 29	3.39
ANNUAL SEVEN-DAY MINIMUM	0.63	Jan 28	0.41
MAXIMUM PEAK FLOW			16600*
MAXIMUM PEAK STAGE			17.27*
INSTANTANEOUS LOW FLOW			NOT DETERMINED*
10 PERCENT EXCEEDS	33		89
50 PERCENT EXCEEDS	3.1		5.0
90 PERCENT EXCEEDS	1.3		1.4

e Estimated.

* See REMARKS.

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

