

NEUSE RIVER BASIN

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 sea level, from topographic map.

REMARKS.--Records 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 water year not determined due to the effects of beaver dams on the gage height-discharge relationship.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	e2.0	e1.0	e1.0	.73	12	1030	4.7	20	2.4	1.8	1.5
2	2.1	e2.0	e1.0	e1.0	.74	9.9	1240	4.9	4.1	3.3	1.6	1.4
3	1.8	e2.0	e1.0	e1.0	.68	12	299	5.1	2.9	2.9	1.8	1.7
4	1.9	e2.0	e1.0	e1.0	.73	32	159	5.2	2.8	3.7	1.6	2.2
5	2.1	e2.0	e1.0	e1.2	1.1	24	93	5.2	3.1	4.6	1.8	82
6	2.3	e2.0	e1.0	e1.0	1.1	14	70	5.5	3.2	3.5	2.3	157
7	4.5	e2.0	e1.0	e1.0	1.2	9.7	52	5.8	1.8	3.6	2.7	211
8	3.7	e2.0	e1.0	e1.0	1.3	6.8	38	6.6	2.1	4.1	3.2	184
9	3.1	e2.0	e1.0	e1.0	1.3	5.1	38	6.4	2.8	4.6	2.7	65
10	2.1	e2.0	e1.0	e1.0	1.5	3.8	28	6.2	3.3	5.6	4.5	12
11	3.0	e2.0	e1.0	e1.1	1.4	3.4	18	6.0	3.1	5.1	8.1	3.3
12	2.3	e2.0	e1.0	e1.2	1.8	3.5	17	6.2	2.8	6.0	3.6	2.0
13	2.3	e2.0	e1.0	e1.2	4.0	3.8	20	6.6	2.0	5.2	2.3	2.6
14	2.3	e2.3	e1.0	e1.0	2.8	3.1	14	6.7	2.6	4.0	1.6	2.9
15	2.2	e2.5	e1.0	e1.0	2.4	5.6	16	7.0	1.8	3.4	1.8	38
16	1.6	e2.0	e1.5	e1.1	3.2	7.1	16	8.7	2.0	2.9	1.8	76
17	1.7	e2.0	e2.0	e1.0	26	3.0	8.7	7.6	2.2	2.7	2.2	75
18	e2.3	e2.0	e1.5	e1.5	2.1	1.0	13	7.0	1.8	3.3	2.3	75
19	e2.3	e2.0	e1.2	e2.8	3.7	5.6	6.5	6.9	1.6	2.4	2.0	74
20	e2.3	e2.0	e1.0	e5.0	4.8	40	4.9	7.1	1.5	1.6	2.1	74
21	e2.3	e2.0	e1.0	1.2	5.2	53	4.7	7.5	2.0	2.0	2.2	77
22	e2.3	e2.0	e1.0	.96	8.5	13	6.0	7.0	4.8	3.1	2.8	80
23	e2.3	e2.0	e1.0	.88	13	7.7	5.1	7.1	4.3	3.1	2.9	80
24	e2.3	e2.0	e1.0	.90	12	7.2	6.0	7.5	2.4	2.9	3.6	83
25	e2.3	e2.5	e1.0	.86	11	8.9	8.8	6.9	2.5	2.3	3.1	81
26	e2.3	e2.5	e1.0	.87	12	8.7	6.1	10	2.4	4.7	2.8	75
27	e2.3	e2.2	e1.0	.73	12	8.6	6.2	6.9	2.3	35	5.2	15
28	e2.3	e1.9	e1.0	.53	14	8.1	5.6	7.2	2.2	1.6	2.4	38
29	e2.3	e1.5	e1.0	.43	---	267	4.2	7.0	2.1	3.3	3.8	82
30	e2.3	e1.4	e1.0	.59	---	3960	4.4	6.8	1.9	2.7	39	50
31	e2.0	---	e1.0	.72	---	505	---	6.6	---	1.8	3.2	---
TOTAL	73.1	60.8	33.2	35.77	150.28	5052.6	3238.2	205.9	94.4	137.4	122.8	1801.6
MEAN	2.36	2.03	1.07	1.15	5.37	163	108	6.64	3.15	4.43	3.96	60.1
MAX	4.5	2.5	2.0	5.0	26	3960	1240	10	20	35	39	211
MIN	1.6	1.4	1.0	.43	.68	1.0	4.2	4.7	1.5	1.6	1.6	1.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001
MEAN	15.6	36.9	61.3	119	173	233
MAX	36.0	149	161	333	509	705
(WY)	1997	1996	1996	1998	1998	1997
MIN	2.02	2.03	1.07	1.15	5.37	61.5
(WY)	1998	2001	2001	2001	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1996 - 2001

ANNUAL TOTAL	20195.2	11006.05	
ANNUAL MEAN	55.2	30.2	76.0
HIGHEST ANNUAL MEAN			144
LOWEST ANNUAL MEAN			30.2
HIGHEST DAILY MEAN	3290	Mar 17	10300
LOWEST DAILY MEAN	1.0	Dec 1	.41
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 1	.62
MAXIMUM PEAK FLOW			6310
MAXIMUM PEAK STAGE			12.86
INSTANTANEOUS LOW FLOW			NOT DETERMINED
10 PERCENT EXCEEDS	149	33	135
50 PERCENT EXCEEDS	3.2	2.7	7.3
90 PERCENT EXCEEDS	1.7	1.0	2.0

e Estimated.
* See REMARKS.

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