

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'20", long 78°54'30", Durham County, Hydrologic Unit 03020201, on right bank 275 ft downstream of bridge on U.S. Highway 501, 0.2 mi downstream of Crooked Creek, and 5 mi north of Durham.

DRAINAGE AREA.--141 mi<sup>2</sup>

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1955. August 1963 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-71(M), 1971(P).

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Prior to Nov. 19, 1966, at site 275 ft upstream, at datum 272.35 ft. Nov. 20, 1966, to Sept. 30, 1967, water-stage recorder at present site, at datum 270.94 ft. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some regulation during periods of low flow caused by mill 600 ft upstream. Maximum gage height for period of record, 23.58 ft, from floodmark. Minimum discharge for period of record also occurred on Aug. 15, 1977.

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	e17	e7.5	e5.9	8.2	40	25	105	13	6.5	3.0	3.1	294
2	e15	e7.3	e5.8	8.3	36	41	100	12	8.4	5.4	8.3	101
3	e14	e7.2	e5.7	11	33	124	71	12	12	5.3	3.4	42
4	e13	e7.0	e5.6	14	31	136	58	17	11	4.0	2.4	18
5	e12	e6.8	e5.7	15	28	79	50	22	7.7	3.5	1.9	7.9
6	e10	e6.7	e5.6	36	27	58	45	26	6.0	3.3	1.8	3.9
7	e9.3	e6.6	e6.1	58	131	49	42	21	5.3	1.9	1.5	2.5
8	e8.5	e6.7	e5.8	55	174	44	39	14	4.4	1.2	1.2	1.7
9	e8.2	e6.8	e5.6	40	104	41	37	12	3.7	1.1	1.2	1.3
10	e7.9	e7.2	e8.0	34	72	43	49	9.4	5.1	1.1	1.3	0.96
11	e7.5	e8.0	e22	35	59	43	45	9.8	5.4	1.0	1.3	0.84
12	e7.2	e8.2	e38	35	51	43	41	7.6	5.1	1.0	1.3	0.70
13	e7.0	e8.3	29	36	46	46	38	11	4.0	1.2	1.3	0.65
14	e8.6	e8.2	19	30	43	47	36	15	3.3	2.8	2.1	28
15	e12	e11	13	25	40	43	35	15	4.0	3.9	17	25
16	e9.0	e9.0	9.8	22	39	40	32	10	4.9	3.6	9.0	21
17	e8.5	e8.1	9.8	19	37	56	31	7.8	5.8	4.1	4.0	6.7
18	e8.0	e7.8	16	16	34	95	27	8.5	5.2	3.2	29	5.1
19	e7.6	e7.6	13	133	32	85	28	6.9	5.3	2.9	8.1	4.1
20	e7.2	e7.4	14	600	32	70	39	6.5	4.8	4.8	2.3	2.4
21	e7.0	e7.1	10	144	32	77	38	8.0	4.6	3.0	1.4	1.7
22	e16	e6.7	8.6	96	31	86	31	7.1	4.7	2.6	2.2	1.2
23	e12	e6.3	7.9	242	30	69	26	6.2	4.5	3.1	2.5	0.97
24	e10	e6.1	10	377	29	58	22	5.7	4.4	41	2.2	1.1
25	e9.6	e6.7	11	177	28	51	21	5.7	4.0	23	3.9	1.2
26	e9.1	e6.9	13	128	27	50	18	5.0	3.6	23	39	1.5
27	e8.6	e6.5	10	82	26	65	17	4.6	3.3	9.8	29	2.0
28	e8.1	e6.3	9.6	63	26	75	16	4.2	3.7	8.6	15	2.2
29	e8.0	e6.1	9.1	54	---	61	15	4.1	3.6	6.1	5.0	2.0
30	e7.9	e6.0	8.5	47	---	54	14	3.9	4.0	4.4	66	1.9
31	e7.7	---	8.3	43	---	53	---	4.0	---	3.5	290	---
TOTAL	301.5	218.1	349.4	2683.5	1318	1907	1166	315.0	158.3	186.4	557.7	583.52
MEAN	9.726	7.270	11.27	86.56	47.07	61.52	38.87	10.16	5.277	6.013	17.99	19.45
MAX	17	11	38	600	174	136	105	26	12	41	290	294
MIN	7.0	6.0	5.6	8.2	26	25	14	3.9	3.3	1.0	1.2	0.65
CFSM	0.07	0.05	0.08	0.61	0.33	0.44	0.28	0.07	0.04	0.04	0.13	0.14
IN.	0.08	0.06	0.09	0.71	0.35	0.50	0.31	0.08	0.04	0.05	0.15	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
	56.46	456	1972	4.77	1964
	73.77	462	1986	7.27	2002
	103.6	406	1973	11.3	2002
	202.4	517	1998	21.4	1981
	243.7	638	1998	47.1	2002
	276.4	767	1998	61.5	2002
	180.9	424	1983	34.9	1995
	118.0	429	1978	10.2	2002
	85.63	411	1982	5.28	2002
	69.03	452	1975	6.01	2002
	49.95	282	1985	3.34	1977
	69.91	606	1999	0.84	1968

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1963 - 2002

ANNUAL TOTAL	26535.1	9744.42		
ANNUAL MEAN	72.70	26.70		
HIGHEST ANNUAL MEAN			127.0	
LOWEST ANNUAL MEAN			244	1973
HIGHEST DAILY MEAN	2950	Mar 30	26.7	2002
LOWEST DAILY MEAN	5.5	Sep 20	9900	Sep 6 1996
ANNUAL SEVEN-DAY MINIMUM	5.7	Dec 3	0.08	Aug 14 1977
MAXIMUM PEAK FLOW			1.2	Jul 7
MAXIMUM PEAK STAGE			0.20	Aug 8 1977
INSTANTANEOUS LOW FLOW			894	Jan 20
ANNUAL RUNOFF (CFSM)	0.52		14700	Sep 6 1996
ANNUAL RUNOFF (INCHES)	7.00		4.51	Jan 20
10 PERCENT EXCEEDS	99		23.58*	Sep 6 1996
50 PERCENT EXCEEDS	28		0.59	Sep 14
90 PERCENT EXCEEDS	7.2		0.19	0.90
			2.57	12.24
			58	258
			9.1	51
			2.3	6.8

e Estimated.  
\* See REMARKS.

02085070 ENO RIVER NEAR DURHAM, NC--Continued

