

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'20", long 78°54'28", 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 mi²

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	58	77	63	92	129	323	51	29	32	44	229
2	42	50	65	62	79	116	263	236	19	21	61	99
3	e40	46	58	61	482	131	146	307	15	21	177	66
4	38	43	58	61	503	121	112	184	19	36	98	50
5	34	42	88	64	236	107	94	111	40	46	47	41
6	34	44	86	71	255	105	82	84	43	20	51	61
7	34	46	75	68	669	112	76	71	29	8.8	31	190
8	34	49	67	60	333	101	74	61	22	5.2	15	912
9	39	46	61	60	188	88	72	53	23	3.7	10	722
10	44	43	213	61	149	83	68	49	18	3.1	6.5	218
11	57	41	1,000	60	130	81	66	46	17	2.2	4.2	109
12	51	41	362	57	150	78	88	43	15	e4.0	27	76
13	45	41	173	58	180	75	192	39	22	2.4	105	61
14	44	41	722	59	145	72	239	37	18	2.1	556	52
15	77	41	590	57	128	81	183	35	15	2.5	327	55
16	71	39	285	57	155	124	124	32	17	1.8	106	63
17	50	42	229	54	154	186	98	30	13	1.6	62	106
18	40	43	273	63	139	148	88	29	11	16	278	502
19	38	95	184	72	138	125	78	27	19	13	98	305
20	36	179	136	65	127	107	71	25	15	19	55	121
21	32	104	110	57	116	95	67	26	7.6	36	40	79
22	31	78	96	55	105	89	63	34	6.2	22	41	62
23	29	67	91	54	96	80	58	52	10	24	30	53
24	29	60	93	53	90	75	55	41	14	e8.0	23	45
25	26	56	96	53	87	72	53	26	29	4.8	15	41
26	28	54	82	61	84	70	52	21	39	4.8	11	36
27	37	52	75	67	97	69	55	17	46	23	9.2	36
28	51	57	71	63	113	69	59	16	41	57	7.6	54
29	175	85	69	65	138	68	51	14	69	106	6.9	101
30	135	97	67	75	---	65	47	30	59	257	970	69
31	77	---	65	104	---	71	---	29	---	70	827	---
TOTAL	1,547	1,780	5,717	1,940	5,358	2,993	3,097	1,856	739.8	874.0	4,139.4	4,614
MEAN	49.9	59.3	184	62.6	185	96.5	103	59.9	24.7	28.2	134	154
MAX	175	179	1,000	104	669	186	323	307	69	257	970	912
MIN	26	39	58	53	79	65	47	14	6.2	1.6	4.2	36
CFSM	0.35	0.42	1.31	0.44	1.31	0.68	0.73	0.42	0.17	0.20	0.95	1.09
IN.	0.41	0.47	1.51	0.51	1.41	0.79	0.82	0.49	0.20	0.23	1.09	1.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

	60.6	75.2	112	197	244	280	189	122	87.6	71.8	55.7	73.8
MEAN	60.6	75.2	112	197	244	280	189	122	87.6	71.8	55.7	73.8
MAX	456	462	406	517	638	767	603	429	411	452	282	606
(WY)	(1972)	(1986)	(1973)	(1998)	(1998)	(1998)	(2003)	(1978)	(1982)	(1975)	(1985)	(1999)
MIN	4.77	7.27	11.3	21.4	47.1	61.5	34.9	10.2	5.28	6.01	3.34	0.84
(WY)	(1964)	(2002)	(2002)	(1981)	(2002)	(2002)	(1995)	(2002)	(2002)	(2002)	(1977)	(1968)

02085070 ENO RIVER NEAR DURHAM, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	93,348		34,655.2		130	
ANNUAL MEAN	256		94.7		293	
HIGHEST ANNUAL MEAN					26.7	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	4,120	Mar 20	1,000	Dec 11	9,900	Sep 6, 1996
LOWEST DAILY MEAN	26	Oct 25	1.6	Jul 17	0.08	Aug 14, 1977
ANNUAL SEVEN-DAY MINIMUM	30	Oct 20	2.4	Jul 11	0.20	Aug 8, 1977
MAXIMUM PEAK FLOW			2,280	Aug 30	14,700	Sep 6, 1996
MAXIMUM PEAK STAGE			7.94	Aug 30	23.58*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			1.5	Jul 17	0.06*	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	1.81		0.672		0.924	
ANNUAL RUNOFF (INCHES)	24.63		9.14		12.55	
10 PERCENT EXCEEDS	699		184		265	
50 PERCENT EXCEEDS	104		60		52	
90 PERCENT EXCEEDS	44		16		7.0	

* See REMARKS.

e Estimated.

