

## 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 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. Minimum discharge for current water year also occurred Sept. 12.

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	52	32	113	63	152	556	187	85	23	23	14	4.7
2	64	30	100	60	118	250	264	105	39	24	13	5.0
3	96	29	90	59	131	158	252	74	87	18	11	4.3
4	70	42	80	58	290	127	163	64	87	15	8.9	3.5
5	56	82	72	59	186	114	132	57	52	15	6.2	2.9
6	50	70	67	61	135	107	116	66	42	16	5.7	2.7
7	42	57	69	61	113	100	173	67	273	31	7.4	2.6
8	37	47	71	60	103	342	344	60	191	55	8.0	2.3
9	33	42	70	59	96	396	607	54	114	37	43	1.9
10	31	36	824	57	94	189	238	48	170	22	54	1.7
11	28	30	800	55	92	152	156	45	161	16	28	1.8
12	26	85	349	54	82	163	128	43	88	10	13	1.8
13	133	525	176	77	77	139	146	58	66	7.2	13	2.3
14	119	237	122	1,630	79	124	143	60	56	5.6	28	2.5
15	82	115	98	880	93	116	116	48	49	5.2	24	4.3
16	60	83	86	353	96	154	98	43	39	7.4	34	4.4
17	47	70	79	196	87	728	89	42	30	15	35	4.4
18	39	62	76	137	77	581	84	37	23	9.9	25	4.4
19	35	57	74	112	69	317	82	34	17	7.2	14	5.5
20	36	54	72	103	66	210	80	96	14	6.5	10	5.9
21	48	52	66	106	69	165	75	135	14	5.7	6.8	5.2
22	47	53	62	105	71	143	71	89	14	5.7	5.3	14
23	43	79	80	98	69	178	74	55	12	5.3	5.3	9.0
24	41	207	104	86	95	339	71	47	e10	4.1	5.3	6.0
25	38	184	93	78	155	225	67	44	e9.7	3.8	4.6	5.6
26	38	137	79	82	115	171	61	39	e8.9	3.6	9.3	4.2
27	37	99	73	82	94	150	59	35	e22	4.4	6.1	3.5
28	34	403	66	74	507	1,030	57	30	31	4.4	5.2	4.1
29	32	250	65	69	---	846	58	28	40	8.7	4.9	4.0
30	34	143	65	134	---	417	62	26	23	14	6.3	3.6
31	35	---	64	225	---	250	---	24	---	24	5.3	---
TOTAL	1,563	3,392	4,305	5,333	3,411	8,937	4,253	1,738	1,805.6	429.7	459.6	128.1
MEAN	50.4	113	139	172	122	288	142	56.1	60.2	13.9	14.8	4.27
MAX	133	525	824	1,630	507	1,030	607	135	273	55	54	14
MIN	26	29	62	54	66	100	57	24	8.9	3.6	4.6	1.7
CFSM	0.36	0.80	0.98	1.22	0.86	2.04	1.01	0.40	0.43	0.10	0.11	0.03
IN.	0.41	0.89	1.14	1.41	0.90	2.36	1.12	0.46	0.48	0.11	0.12	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	60.3	76.1	112	196	242	280	188	120	87.0	70.5	54.7	72.1
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	34,871.2		35,755.0		129	
ANNUAL MEAN	95.3		98.0		293	
HIGHEST ANNUAL MEAN					26.7	2003
LOWEST ANNUAL MEAN					9,900	Sep 6, 1996
HIGHEST DAILY MEAN	970	Aug 30	1,630	Jan 14	0.08	Aug 14, 1977
LOWEST DAILY MEAN	1.6	Jul 17	1.7	Sep 10	0.20	Aug 8, 1977
ANNUAL SEVEN-DAY MINIMUM	2.4	Jul 11	2.0	Sep 8	14,700	Sep 6, 1996
MAXIMUM PEAK FLOW			2,830	Jan 14	23.58*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.11	Jan 14	0.06*	Aug 14, 1977
INSTANTANEOUS LOW FLOW			1.5*	Sep 10	0.918	
ANNUAL RUNOFF (CFSM)	0.676		0.695		12.48	
ANNUAL RUNOFF (INCHES)	9.20		9.43		263	
10 PERCENT EXCEEDS	184		190		53	
50 PERCENT EXCEEDS	62		60		6.9	
90 PERCENT EXCEEDS	16		5.3			

\* See REMARKS.

e Estimated.

