

NEUSE RIVER BASIN

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'21", long 78°54'29", 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	84	28	159	322	851	407	100	130	161	57	307
2	2.0	55	26	288	178	977	248	107	108	1,280	82	104
3	2.8	40	24	231	126	701	186	95	93	932	73	67
4	e1.9	33	24	209	111	363	157	89	107	315	63	75
5	e1.2	31	869	149	110	283	143	89	263	157	116	467
6	e0.86	222	791	119	102	697	148	100	135	112	377	154
7	e0.63	171	591	103	644	626	1,400	105	242	92	147	86
8	e0.50	80	350	93	626	327	1,330	91	1,030	86	196	71
9	e0.45	55	258	88	287	223	3,780	80	800	76	412	65
10	26	42	200	81	211	174	3,220	75	356	71	1,740	56
11	3,890	38	328	71	192	140	2,650	72	172	71	753	49
12	961	236	531	64	143	126	852	69	145	74	304	44
13	111	662	961	60	114	118	522	59	255	297	170	42
14	65	245	1,320	58	99	133	355	52	154	945	442	44
15	46	112	499	57	102	124	263	62	157	230	229	44
16	414	83	240	54	114	845	213	332	226	114	120	47
17	225	591	159	54	128	804	180	123	813	91	108	40
18	73	763	119	53	163	403	157	120	398	85	94	80
19	42	271	107	50	334	247	158	427	261	70	78	374
20	29	132	166	49	296	4,120	156	226	220	62	71	159
21	23	92	184	49	212	2,200	138	134	146	55	65	87
22	24	75	127	48	620	758	136	1,300	107	97	60	67
23	21	59	102	50	1,080	421	127	1,540	90	715	65	867
24	17	50	204	48	470	270	117	852	80	272	63	487
25	13	46	1,130	47	260	203	115	797	69	132	63	166
26	11	41	675	45	188	175	200	1,470	63	86	52	104
27	14	37	300	47	671	152	343	619	59	70	49	82
28	99	34	184	44	1,390	134	152	321	56	61	45	71
29	491	32	140	46	---	163	118	212	55	54	42	64
30	393	31	115	234	---	e1,210	106	181	71	58	38	54
31	165	---	101	742	---	e944	---	145	---	68	40	---
TOTAL	7,165.14	4,443	10,853	3,490	9,293	18,912	18,077	10,044	6,861	6,989	6,214	4,424
MEAN	231	148	350	113	332	610	603	324	229	225	200	147
MAX	3,890	763	1,320	742	1,390	4,120	3,780	1,540	1,030	1,280	1,740	867
MIN	0.45	31	24	44	99	118	106	52	55	54	38	40
CFSM	1.64	1.05	2.48	0.80	2.35	4.33	4.27	2.30	1.62	1.60	1.42	1.05
IN.	1.89	1.17	2.86	0.92	2.45	4.99	4.77	2.65	1.81	1.84	1.64	1.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003, BY WATER YEAR (WY)

	60.8	75.6	110	200	246	285	191	123	89.2	72.9	53.7	71.8
MEAN	60.8	75.6	110	200	246	285	191	123	89.2	72.9	53.7	71.8
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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003	
ANNUAL TOTAL	31,336.56		106,765.14		131	
ANNUAL MEAN	85.9		293		293	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					26.7	
HIGHEST DAILY MEAN	3,890	Oct 11	4,120	Mar 20	9,900	Sep 6, 1996
LOWEST DAILY MEAN	0.45	Oct 9	0.45	Oct 9	0.08	Aug 14, 1977
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 3	1.2	Oct 3	0.20	Aug 8, 1977
MAXIMUM PEAK FLOW			7,850	Oct 11	14,700	Sep 6, 1996
MAXIMUM PEAK STAGE			17.51	Oct 11	23.58*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.06*	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	0.61		2.07		0.93	
ANNUAL RUNOFF (INCHES)	8.27		28.17		12.64	
10 PERCENT EXCEEDS	180		774		268	
50 PERCENT EXCEEDS	26		124		52	
90 PERCENT EXCEEDS	1.9		42		6.9	

* See REMARKS.

e Estimated.

