Water-Data Report 2013

02085070 ENO RIVER NEAR DURHAM, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°04′20″, long 78°54′28″ referenced to North American Datum of 1983, Durham County, NC, 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^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1963 to current year. Occasional low-flow measurements, 1955.
PRECIPITATION: August 2008 to current year. Published as station number 360419078543145.

REVISED RECORDS.--WDR NC-72-1: 1968-71 (annual maximum discharges).

GAGE.--Water-stage recorder. Datum of gage is 269.92 ft above North American Vertical Datum of 1988. Prior to November 19, 1966, at site 275 ft upstream, at datum 272.35 ft. Water-stage recorder at present site, at datum 270.94 ft. November 20, 1966, to September 30, 1967. U.S. Army Corps of Engineers satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. 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 August 15, 1977.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41	16	14	46	118	148	181	87	28	881	50	43
2	35	13	15	69	76	116	144	66	26	347	188	144
3	50	13	14	84	59	99	103	56	64	426	139	71
4	32	12	15	59	52	82	93	48	64	561	162	41
5	24	13	15	45	47	74	488	44	44	317	107	33
6	20	12	15	39	42	103	267	450	93	139	75	26
7	113	10	19	36	43	103	151	473	2,170	96	62	23
8	140	10	23	32	660	80	115	176	1,060	487	45	20
9	82	10	35	30	347	67	97	123	298	578	37	18
10	55	11	24	28	158	60	82	96	310	281	37	16
11	38	12	19	29	116	55	72	68	352	944	477	14
12	30	13	16	29	106	163	144	62	175	748	177	12
13	24	12	20	30	119	253	211	49	111	270	251	12
14	20	13	17	35	154	140	117	41	84	209	130	11
15	20	14	16	70	112	102	88	36	65	142	73	13
16	25	21	15	92	108	83	74	34	51	104	50	13
17	24	14	22	517	150	73	65	31	43	91	41	7.4
18	21	18	27	1,380	117	67	58	47	66	57	55	6.4
19	25	15	26	524	102	78	91	366	90	53	81	6.3
20	28	15	23	246	117	75	283	683	56	42	133	11
21	25	14	46	156	98	61	131	391	40	40	117	14
22	18	14	49	114	91	54	87	186	33	38	703	28
23	15	14	33	86	189	50	68	210	38	37	139	28
24	13	13	27	68	266	102	59	211	34	33	79	20
25	11	13	23	59	151	256	51	108	32	298	52	13
26	10	13	447	57	316	158	46	70	32	87	40	11
27	11	14	391	58	559	109	40	54	51	51	34	10
28	9.9	15	113	51	235	83	40	45	45	106	31	9.9
29	11	14	92	48	---	67	120	39	99	72	30	8.6
30	20	14	88	46	---	61	129	35	635	50	29	8.1
31	17	---	57	125	---	86	---	31	---	41	26	---
Total	1,007.9	405	1,756	4,288	4,708	3,108	3,695	4,416	6,289	7,626	3,650	691.7
Mean	32.5	13.5	56.6	138	168	100	123	142	210	246	118	23.1
Max	140	21	447	1,380	660	256	488	683	2,170	944	703	144
Min	9.9	10	14	28	42	50	40	31	26	33	26	6.3
Cfsm	0.23	0.10	0.40	0.98	1.19	0.71	0.87	1.01	1.49	1.74	0.84	0.16
In.	0.27	0.11	0.46	1.13	1.24	0.82	0.97	1.17	1.66	2.01	0.96	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	53.6	77.8	114	181	221	260	176	114	86.3	69.6	51.2	70.8
Max	456	462	415	517	638	767	603	429	411	452	282	606
(WY)	(1972)	(1986)	(2010)	(1998)	(1998)	(1998)	(2003)	(1978)	(1982)	(1975)	(1985)	(1999)
Min	4.77	3.51	11.3	14.3	37.4	32.4	34.9	10.2	5.28	6.01	3.12	0.84
(WY)	(1964)	(2008)	(2002)	(2008)	(2008)	(2006)	(1995)	(2002)	(2002)	(2002)	(2007)	(1968)

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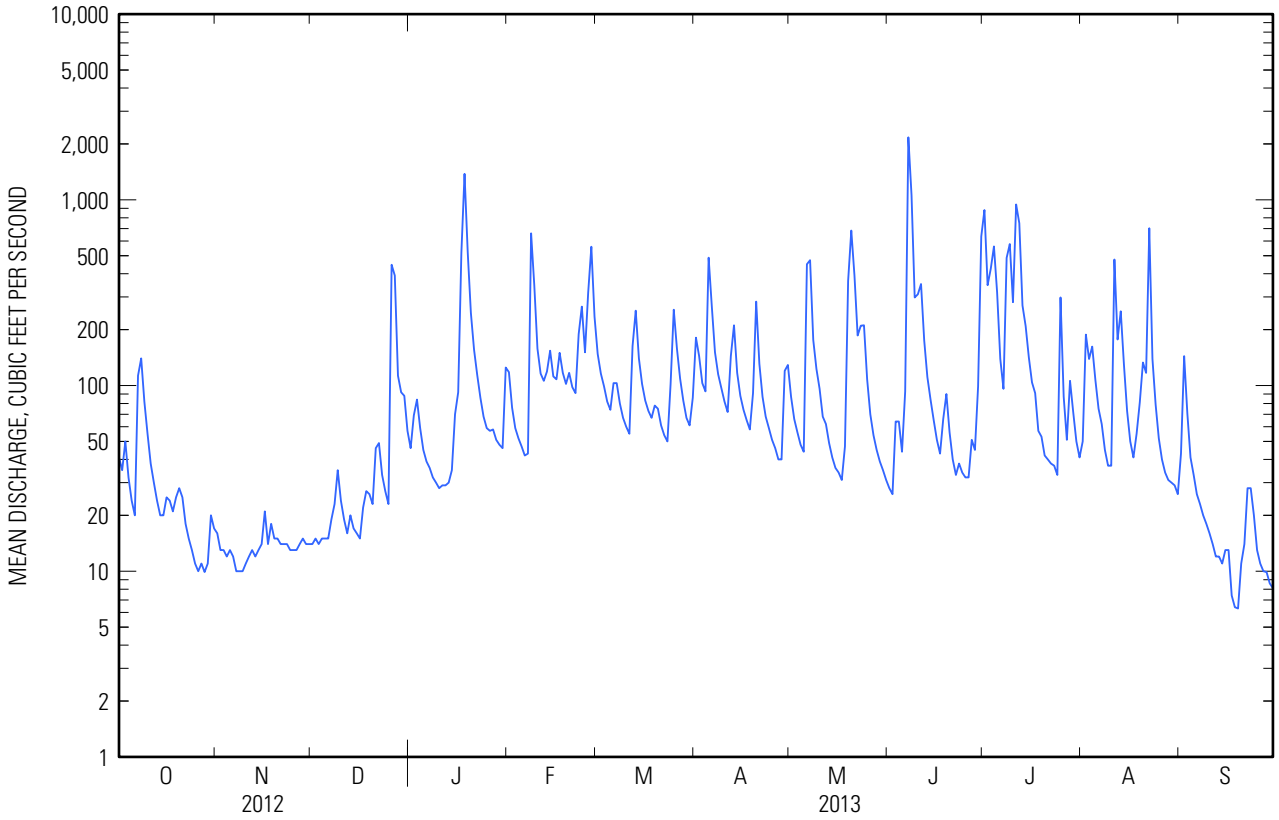
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1963 - 2013	
Annual total	18,232.6		41,640.6			
Annual mean	49.8		114		123	
Highest annual mean					293	2003
Lowest annual mean					26.7	2002
Highest daily mean	1,230	Mar 25	2,170	Jun 7	9,900	Sep 6, 1996
Lowest daily mean	3.4	Aug 6	6.3	Sep 19	0.08	Aug 14, 1977
Annual seven-day minimum	4.4	Jun 30	9.7	Sep 14	0.20	Aug 8, 1977
Maximum peak flow			5,940	Jun 7	14,700	Sep 6, 1996
Maximum peak stage			14.47	Jun 7	[a]23.58	Sep 6, 1996
Instantaneous low flow			5.7	Sep 19	[a]0.06	Aug 14, 1977
Annual runoff (cfsm)	0.353		0.809		0.869	
Annual runoff (inches)	4.81		10.99		11.81	
10 percent exceeds	94		268		251	
50 percent exceeds	25		55		49	
90 percent exceeds	7.7		13		6.4	

[a] See Remarks.