



Water-Data Report 2013

0208675010 ELLERBE CREEK AT CLUB BOULEVARD AT DURHAM, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°01'09.8", long 78°53'41.2" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, on right bank 200 ft downstream of Club Boulevard, approximately 1.6 mi northeast of Durham.

DRAINAGE AREA.--6.01 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 2008 to current year.

PRECIPITATION: August 2008 to current year, station number 360143078540945.

GAGE.--Water-stage recorder. Datum of gage is 289.2 ft above North American Vertical Datum of 1988. Prior to October 9, 2008 at site 120 ft downstream at datum 284.3 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

COOPERATION.--Gage is operated in cooperation with Stormwater Services Division, City of Durham.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record occurred many days in the 2009 water year. Minimum discharge for current water year also occurred September 15.

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0208675010 ELLERBE CREEK AT CLUB BOULEVARD AT DURHAM, NC—Continued

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	0.74	0.32	0.59	1.1	1.3	1.7	21	2.4	0.54	102	9.6	8.2
2	2.2	0.31	0.47	9.2	0.63	1.3	2.7	1.4	0.48	17	9.7	5.4
3	0.72	0.35	0.42	1.8	0.48	0.99	1.7	0.98	51	67	2.1	0.70
4	0.34	0.31	0.35	0.81	0.43	0.82	22	0.81	6.2	18	0.98	0.34
5	0.23	0.29	0.39	0.53	0.43	2.1	49	0.70	1.1	3.5	0.51	0.21
6	0.18	0.33	0.25	0.43	0.38	6.0	3.9	94	35	1.9	5.2	0.17
7	21	0.33	1.5	0.38	3.2	1.2	2.2	8.9	378	1.5	1.2	0.13
8	3.8	0.35	0.65	0.33	76	0.77	2.1	3.2	41	10	0.52	0.11
9	2.1	0.38	0.51	0.32	3.3	0.60	1.9	3.1	6.1	3.5	0.49	0.12
10	0.89	0.43	0.42	0.31	1.6	0.60	1.2	1.2	46	3.3	5.1	0.12
11	0.51	0.31	0.35	2.0	1.8	0.55	1.1	2.3	10	39	2.8	0.12
12	0.36	0.32	0.35	0.75	1.3	44	16	2.0	2.6	10	1.1	0.15
13	0.30	0.89	5.0	0.47	14	3.3	2.4	0.91	2.4	5.2	43	0.13
14	0.25	0.60	0.87	1.7	3.0	1.4	1.1	0.69	1.7	3.7	1.4	0.08
15	2.5	1.2	0.49	2.9	1.4	1.1	1.3	0.63	0.88	1.5	0.58	0.09
16	1.0	1.1	0.46	5.0	12	0.75	0.96	0.42	0.64	1.1	0.40	0.17
17	0.45	0.62	5.6	128	4.5	0.67	0.68	0.47	0.47	1.8	0.82	0.35
18	0.39	0.56	1.2	49	1.6	0.95	0.60	25	38	0.84	5.9	0.11
19	3.7	0.54	0.58	5.0	4.1	3.7	43	86	7.7	0.68	6.6	0.09
20	0.74	0.45	0.81	2.4	2.4	1.0	37	81	1.3	0.65	1.5	0.34
21	0.40	0.44	4.7	1.4	1.2	0.72	2.2	14	0.68	0.80	4.8	4.7
22	0.33	0.41	0.84	1.0	4.4	0.61	0.97	3.7	0.50	0.47	1.0	11
23	0.39	0.37	0.49	0.76	60	0.54	1.1	6.6	0.47	0.47	0.54	0.79
24	0.36	0.33	0.43	0.68	6.0	30	0.91	2.9	7.6	0.43	0.39	0.28
25	0.72	0.47	0.39	0.90	2.1	7.7	0.79	1.2	0.94	0.85	0.33	0.21
26	0.55	0.29	112	2.4	94	2.3	0.74	0.85	5.0	0.40	0.25	0.18
27	1.9	0.34	5.8	1.4	10	1.5	0.56	0.73	4.8	0.38	0.25	0.16
28	0.46	0.70	1.5	0.87	3.0	1.1	4.5	0.54	2.2	1.0	0.19	0.12
29	2.2	0.72	8.5	0.59	---	0.90	105	0.51	37	0.91	0.14	0.12
30	3.2	0.68	1.7	0.65	---	0.83	4.3	0.57	265	0.50	0.14	0.12
31	0.56	---	0.76	15	---	31	---	0.61	---	0.40	0.12	---
Mean	1.72	0.49	5.11	7.68	11.2	4.86	11.1	11.2	31.8	9.64	3.47	1.16
Max	21	1.2	112	128	94	44	105	94	378	102	43	11
Min	0.18	0.29	0.25	0.31	0.38	0.54	0.56	0.42	0.47	0.38	0.12	0.08
Cfsm	0.29	0.08	0.85	1.28	1.87	0.81	1.85	1.87	5.30	1.60	0.58	0.19
In.	0.33	0.09	0.98	1.47	1.95	0.93	2.06	2.16	5.91	1.85	0.67	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.77	5.51	8.44	6.28	7.57	9.37	4.96	8.17	9.93	5.14	4.32	10.5
Max	2.82	16.0	20.0	13.0	15.7	22.0	11.1	14.9	31.8	9.64	9.94	32.7
(WY) (2011)	(2011)	(2010)	(2010)	(2010)	(2010)	(2009)	(2013)	(2010)	(2013)	(2013)	(2008)	(2008)
Min	0.72	0.49	2.11	1.97	2.89	4.86	2.06	2.80	1.33	1.23	1.14	1.16
(WY) (2009)	(2009)	(2013)	(2011)	(2011)	(2009)	(2013)	(2012)	(2009)	(2011)	(2009)	(2011)	(2013)

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2008 - 2013	
Annual mean	3.85		8.24		6.35	
Highest annual mean					9.32	
Lowest annual mean					3.73	
Highest daily mean	112	Dec 26	378	Jun 7	694	Sep 6, 2008
Lowest daily mean	0.02	Jul 7	0.08	Sep 14	0.02	Aug 5, 2011
Annual seven-day minimum	0.05	Jul 31	0.12	Sep 9	0.05	Sep 10, 2009
Maximum peak flow			1,060	Jun 7	1,910	Sep 6, 2008
Maximum peak stage			7.84	Jun 7	11.09	Sep 6, 2008
Instantaneous low flow			^a 0.04	Sep 14	^a 0.00	Oct 9, 2008
Annual runoff (cfsm)	0.641		1.37		1.06	
Annual runoff (inches)	8.73		18.62		14.36	
10 percent exceeds	7.9		14		11	
50 percent exceeds	0.67		0.91		1.1	
90 percent exceeds	0.17		0.31		0.21	

^a See Remarks.

