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Water-Data Report 2010

**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 mi<sup>2</sup>.

**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.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record occurred many days.

Minimum discharge for current water year also occurred September 11.

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**  
[e, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.91	30	1.8	3.7	6.9	1.8	3.7	0.60	9.0	0.34	3.4	0.21
<b>2</b>	0.70	4.4	e52	2.9	23	1.9	3.7	0.34	4.1	0.27	1.0	0.19
<b>3</b>	0.53	1.8	61	2.4	63	5.8	3.7	0.26	2.8	0.22	0.61	0.17
<b>4</b>	0.39	0.94	4.9	2.1	12	2.6	3.4	0.27	1.6	0.20	0.56	0.12
<b>5</b>	0.45	0.69	13	2.1	173	2.0	3.5	0.27	1.1	1.6	11	0.12
<b>6</b>	0.46	0.55	5.1	2.0	70	1.5	3.2	0.42	0.86	3.3	7.6	0.12
<b>7</b>	0.42	0.46	3.7	2.0	6.3	1.5	2.8	1.4	1.8	3.1	1.1	0.13
<b>8</b>	0.35	0.42	4.7	2.5	4.0	1.5	2.5	0.28	0.71	3.8	0.59	0.14
<b>9</b>	0.28	0.34	129	2.3	10	1.5	6.1	0.17	0.50	6.2	0.36	0.11
<b>10</b>	0.28	11	6.9	2.0	5.9	1.5	2.8	0.17	0.51	3.4	0.27	0.05
<b>11</b>	0.34	208	3.9	1.8	3.4	4.1	2.4	0.19	0.44	3.5	0.28	0.03
<b>12</b>	1.4	69	3.3	1.8	2.8	6.2	2.4	0.30	3.4	3.9	0.73	0.20
<b>13</b>	1.6	27	21	1.6	3.8	40	2.3	0.75	17	27	0.29	0.05
<b>14</b>	0.63	4.1	5.8	1.6	2.9	11	2.2	0.23	5.5	31	1.4	0.06
<b>15</b>	2.0	2.6	4.0	1.5	3.0	4.1	2.2	0.33	1.4	2.5	0.28	0.04
<b>16</b>	0.66	1.8	3.3	1.5	3.1	e3.0	2.3	4.1	59	0.90	0.23	0.10
<b>17</b>	0.44	1.3	2.8	111	2.2	e2.6	2.0	e190	11	17	0.14	0.09
<b>18</b>	0.34	4.3	2.8	15	2.1	e2.3	2.0	51	2.5	19	0.06	0.07
<b>19</b>	0.26	6.6	110	5.2	1.6	e2.1	2.0	7.6	1.3	7.8	27	0.25
<b>20</b>	0.26	2.9	10	3.9	1.5	e1.9	1.7	7.8	0.96	2.0	12	0.23
<b>21</b>	0.26	1.7	5.6	24	1.5	e1.7	14	2.3	0.69	2.3	1.2	0.17
<b>22</b>	0.26	1.2	4.4	35	15	e2.4	2.4	44	0.48	0.65	17	0.17
<b>23</b>	0.26	82	3.8	6.0	3.9	1.4	0.88	37	4.7	0.43	42	1.2
<b>24</b>	5.7	6.1	3.5	4.5	7.3	1.3	0.66	9.1	1.6	0.33	9.4	0.28
<b>25</b>	1.7	3.3	113	e137	4.9	1.3	3.7	4.7	0.89	1.6	5.3	0.36
<b>26</b>	0.77	2.3	20	7.6	2.8	2.1	1.3	2.5	0.65	3.8	1.7	3.1
<b>27</b>	1.4	2.3	5.5	4.2	2.2	1.8	0.71	1.6	0.48	6.0	0.79	40
<b>28</b>	17	1.4	4.1	3.8	2.0	1.3	0.53	e8.0	0.34	2.8	0.54	20
<b>29</b>	2.1	1.1	3.6	3.5	---	51	0.47	e78	0.71	0.77	0.36	30
<b>30</b>	1.1	1.7	3.2	4.7	---	5.3	0.33	6.0	0.36	5.7	0.35	150
<b>31</b>	1.5	---	4.7	5.1	---	3.9	---	3.4	---	1.1	0.27	---
<b>Mean</b>	1.44	16.0	20.0	13.0	15.7	5.56	2.73	14.9	4.55	5.24	4.77	8.26
<b>Max</b>	17	208	129	137	173	51	14	190	59	31	42	150
<b>Min</b>	0.26	0.34	1.8	1.5	1.5	1.3	0.33	0.17	0.34	0.20	0.06	0.03
<b>Cfsm</b>	0.24	2.67	3.33	2.17	2.62	0.93	0.45	2.49	0.76	0.87	0.79	1.37
<b>In.</b>	0.28	2.98	3.84	2.50	2.72	1.07	0.51	2.87	0.84	1.01	0.91	1.53

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2010, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	1.08	10.3	15.4	9.76	9.30	13.8	3.80	8.87	6.78	3.24	6.06	15.6
<b>Max</b>	1.44	16.0	20.0	13.0	15.7	22.0	4.87	14.9	9.02	5.24	9.94	32.7
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2009)	(2010)	(2008)	(2008)
<b>Min</b>	0.72	4.60	10.9	6.49	2.89	5.56	2.73	2.80	4.55	1.23	3.46	5.82
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2010)	(2010)	(2009)	(2010)	(2009)	(2009)	(2009)

**0208675010 ELLERBE CREEK AT CLUB BOULEVARD AT DURHAM, NC—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2009</b>		<b>Water Year 2010</b>		<b>Water Years 2008 - 2010</b>	
<b>Annual mean</b>	8.04		9.32		7.79	
<b>Highest annual mean</b>					9.32	
<b>Lowest annual mean</b>					6.26	
<b>Highest daily mean</b>	208	Nov 11	208	Nov 11	694	Sep 6, 2008
<b>Lowest daily mean</b>	0.04	Sep 12	0.03	Sep 11	0.03	Sep 11, 2010
<b>Annual seven-day minimum</b>	0.05	Sep 10	0.08	Sep 10	0.05	Sep 10, 2009
<b>Maximum peak flow</b>			Not Determined		1,910	Sep 6, 2008
<b>Maximum peak stage</b>			6.60	Dec 2	11.09	Sep 6, 2008
<b>Instantaneous low flow</b>			<sup>a</sup> 0.02	Sep 10	<sup>a</sup> 0.00	Oct 9, 2008
<b>Annual runoff (cfsm)</b>	1.34		1.55		1.30	
<b>Annual runoff (inches)</b>	18.16		21.06		17.61	
<b>10 percent exceeds</b>	18		19		17	
<b>50 percent exceeds</b>	1.4		2.1		1.6	
<b>90 percent exceeds</b>	0.26		0.26		0.26	

<sup>a</sup> See Remarks.

