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Water-Data Report 2010

**0209722970 SANDY CREEK AT CORNWALLIS ROAD NEAR DURHAM, NC**

Cape Fear Basin  
Haw Subbasin

LOCATION.--Lat 35°58'59.6", long 78°57'24.5" referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03030002, on right bank at Cornwallis road, approximately 1.6 mi southwest of Durham.

DRAINAGE AREA.--4.67 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

PRECIPITATION: August 2008 to current year. Published as station number 355852078572045.

GAGE.--Water-stage recorder. Datum of gage is 266.0 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 also occurred August 19, 2008. Minimum discharge for current water year also occurred August 15, 16, 17.

## 0209722970 SANDY CREEK AT CORNWALLIS ROAD NEAR DURHAM, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.21	35	2.2	2.3	8.4	1.7	2.0	e0.59	10	0.59	1.6	e0.26
2	0.13	3.0	e809	1.7	17	1.9	2.1	0.55	3.6	0.39	0.44	e0.33
3	0.21	0.95	e63	1.5	34	7.8	2.1	0.73	2.1	0.18	0.27	e0.33
4	0.13	0.79	5.4	1.4	12	2.2	2.0	0.81	1.3	0.16	0.23	e0.20
5	0.34	0.65	17	1.3	e302	1.8	2.0	0.65	1.1	0.19	12	e0.08
6	0.44	0.62	4.6	1.3	40	1.5	2.0	0.64	1.3	0.21	3.0	e0.10
7	0.77	0.54	2.7	1.5	8.8	1.5	1.8	0.74	2.2	0.22	0.55	e0.19
8	0.34	0.56	4.6	2.1	5.2	1.4	1.7	0.67	0.57	0.44	0.21	e0.27
9	0.21	0.56	e113	1.1	11	1.7	3.7	0.56	0.46	1.7	0.10	e0.24
10	0.32	17	7.5	1.00	8.4	2.3	1.9	0.59	0.58	0.50	0.08	e0.13
11	0.21	e328	3.1	0.95	4.0	6.2	1.9	0.71	0.46	0.37	0.08	e0.11
12	2.0	e99	2.1	1.0	3.4	9.9	1.5	0.82	2.7	1.2	0.75	e0.32
13	1.5	23	19	0.93	5.5	30	1.4	0.77	11	15	0.14	e0.13
14	0.76	4.2	6.0	0.91	3.4	11	1.2	0.81	2.4	14	0.11	e0.10
15	2.4	2.1	3.5	0.91	4.3	4.6	1.6	0.97	1.1	0.81	0.07	e0.08
16	0.94	1.6	2.3	0.84	3.5	3.2	2.1	1.0	e67	0.58	0.07	e0.34
17	0.79	1.5	1.7	79	2.7	3.9	1.4	e363	5.0	7.9	0.07	e0.12
18	0.52	7.3	2.4	12	2.6	3.1	1.6	e61	1.2	8.9	0.13	e0.13
19	0.44	9.3	63	4.4	2.3	2.4	1.5	7.7	0.83	2.3	1.2	e0.12
20	0.43	3.1	8.7	3.0	1.9	e2.2	1.5	3.2	0.68	1.0	1.3	e0.22
21	0.50	1.4	4.6	18	1.7	e2.0	4.3	0.95	0.40	1.0	0.31	e0.13
22	0.57	1.1	3.0	22	12	1.5	3.6	16	0.43	0.41	e84	e0.06
23	0.46	70	2.2	5.1	4.5	1.7	1.8	18	2.8	0.23	e26	e0.08
24	7.3	7.9	1.8	4.1	7.5	1.7	1.3	7.9	1.1	0.21	6.7	e0.07
25	1.5	3.8	e105	e356	4.0	1.9	7.3	2.6	0.76	0.18	1.2	e0.09
26	1.1	2.1	16	8.8	2.4	e1.8	e1.5	1.4	0.70	0.28	0.56	e2.1
27	2.4	2.6	5.2	4.3	2.0	1.7	e0.80	1.0	0.67	4.5	0.17	e46
28	15	1.5	3.3	3.2	1.8	1.4	e0.76	e84	0.64	1.1	0.09	14
29	0.80	1.4	2.3	2.9	---	28	e0.70	e124	1.4	1.1	0.08	30
30	0.73	2.9	1.8	5.3	---	4.9	e0.64	3.7	0.56	3.5	e0.13	e175
31	2.0	---	5.2	5.5	---	2.7	---	1.6	---	0.35	e0.21	---
<b>Mean</b>	1.47	21.1	41.7	17.9	18.4	4.83	1.99	22.8	4.17	2.24	4.58	9.04
<b>Max</b>	15	328	809	356	302	30	7.3	363	67	15	84	175
<b>Min</b>	0.13	0.54	1.7	0.84	1.7	1.4	0.64	0.55	0.40	0.16	0.07	0.06

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.18	13.2	25.2	11.4	10.6	13.1	3.08	13.1	5.94	1.93	4.88	12.0
<b>Max</b>	1.47	21.1	41.7	17.9	18.4	21.4	4.18	22.8	7.70	2.24	7.24	21.1
<b>(WY)</b>	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2009)	(2010)	(2008)	(2008)
<b>Min</b>	0.90	5.31	8.72	4.90	2.78	4.83	1.99	3.39	4.17	1.62	2.82	5.90
<b>(WY)</b>	(2009)	(2009)	(2009)	(2009)	(2009)	(2010)	(2010)	(2009)	(2010)	(2009)	(2009)	(2009)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2008 - 2010	
Annual mean	9.97		12.5		9.17	
Highest annual mean					12.5	2010
Lowest annual mean					5.82	2009
Highest daily mean	809	Dec 2	809	Dec 2	809	Dec 2, 2009
Lowest daily mean	0.13	Oct 2	0.06	Sep 22	0.00	Aug 18, 2008
Annual seven-day minimum	0.28	Sep 30	0.11	Sep 19	0.11	Sep 19, 2010
Maximum peak flow			Not Determined		Not Determined	
Maximum peak stage			9.49	Dec 2	9.99	Sep 6, 2008
Instantaneous low flow			<sup>a</sup> 0.05	Aug 14	<sup>a</sup> 0.00	Aug 18, 2008
10 percent exceeds	15		15		14	
50 percent exceeds	1.5		1.6		1.4	
90 percent exceeds	0.51		0.21		0.33	

<sup>a</sup> See Remarks.

