



Water-Data Report 2012

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 mi².

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 October 25, 26, 27, 28, 29.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.25	1.2	1.1	0.37	0.51	3.2	1.4	0.74	4.3	1.1	0.70	0.52
2	0.15	0.55	0.70	0.60	0.79	0.60	1.2	0.81	6.2	0.77	0.69	4.0
3	0.12	0.17	0.43	0.31	0.45	e60	1.1	0.82	1.0	0.85	0.62	e55
4	0.30	e68	0.33	0.12	0.27	9.1	2.2	0.70	0.85	0.88	0.55	9.8
5	0.18	2.8	0.31	0.12	3.9	2.4	2.2	19	0.78	0.94	0.47	0.93
6	0.25	0.94	0.43	0.20	0.68	0.99	2.7	6.7	1.9	0.90	0.62	e45
7	0.23	0.59	11	0.14	0.45	0.72	1.2	1.2	0.99	0.99	4.8	6.3
8	0.12	0.68	3.5	0.13	0.18	0.58	0.95	0.82	0.69	0.88	2.3	14
9	0.10	1.2	0.98	2.7	0.14	4.6	0.87	5.5	0.56	7.1	1.4	5.1
10	0.07	1.1	0.66	0.85	0.13	0.65	0.86	1.8	0.63	e40	6.5	0.66
11	0.61	1.3	0.57	5.9	0.14	0.39	0.84	0.88	16	25	20	0.21
12	2.7	1.5	0.55	4.8	0.24	0.37	0.79	0.66	3.9	2.5	4.1	0.18
13	0.67	1.4	0.47	0.86	0.23	0.35	0.75	0.70	e45	0.95	0.93	0.20
14	0.64	1.3	0.46	0.55	0.22	0.48	0.72	17	1.6	0.82	0.15	0.29
15	0.32	1.4	0.29	0.33	0.22	0.21	0.71	14	0.95	0.84	0.20	0.32
16	0.12	1.6	6.5	0.16	6.3	0.21	0.77	1.4	0.77	0.80	0.60	1.6
17	0.18	11	14	0.17	2.2	0.73	0.75	0.92	0.68	0.86	0.79	0.34
18	0.30	1.9	1.2	1.0	0.41	9.4	0.71	0.75	0.69	0.63	0.68	e75
19	e62	0.51	0.52	0.34	13	1.4	1.0	0.60	1.7	1.1	38	e40
20	2.4	0.18	0.47	0.34	9.5	6.9	0.44	0.57	1.1	0.82	6.3	2.3
21	0.56	0.54	23	10	1.3	21	1.2	0.67	0.64	2.4	0.61	0.60
22	0.13	0.82	9.8	2.1	0.58	1.7	11	0.91	2.8	2.8	0.33	0.42
23	0.06	9.6	3.7	0.67	6.0	0.60	4.8	17	1.4	1.1	0.38	1.7
24	0.04	0.82	1.1	0.59	11	e65	1.1	1.1	0.73	1.1	0.68	0.21
25	0.03	0.44	1.1	0.43	3.3	20	0.78	0.76	0.76	0.70	3.3	0.24
26	0.03	0.22	0.72	0.13	0.67	4.2	5.6	0.75	0.62	0.37	0.30	0.27
27	0.03	0.28	9.2	11	6.4	1.9	1.3	0.56	0.56	6.7	0.28	0.34
28	0.03	0.42	2.6	1.2	1.9	1.6	0.78	0.66	0.62	12	0.22	0.91
29	21	e70	1.00	0.49	0.84	1.4	0.70	0.72	0.70	6.8	0.51	19
30	1.2	2.7	0.65	0.25	---	1.2	0.72	1.5	0.79	0.87	0.74	4.3
31	0.94	---	0.60	0.29	---	3.0	---	0.79	---	0.71	0.80	---
Mean	3.09	6.17	3.16	1.52	2.48	7.25	1.67	3.26	3.33	4.01	3.18	9.66
Max	62	70	23	11	13	65	11	19	45	40	38	75
Min	0.03	0.17	0.29	0.12	0.13	0.21	0.44	0.56	0.56	0.37	0.15	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.06	8.53	13.9	6.49	6.84	9.46	2.95	8.67	4.42	2.99	3.72	10.1
Max	3.09	21.1	41.7	17.9	18.4	21.4	4.18	22.8	7.70	4.09	7.24	21.1
(WY)	(2012)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2010)	(2009)	(2011)	(2008)	(2008)
Min	0.90	1.51	1.88	1.52	2.48	4.37	1.67	3.26	2.47	1.62	0.79	4.81
(WY)	(2009)	(2011)	(2011)	(2012)	(2012)	(2011)	(2012)	(2012)	(2011)	(2009)	(2011)	(2011)

0209722970 SANDY CREEK AT CORNWALLIS ROAD NEAR DURHAM, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2011	Water Year 2012	Water Years 2008 - 2012	
Annual mean	3.63	4.06	6.37	
Highest annual mean			12.5	2010
Lowest annual mean			3.11	2011
Highest daily mean	70 Nov 29	75 Sep 18	809 Dec 2, 2009	
Lowest daily mean	0.02 Aug 18	0.03 Oct 25	0.00 Aug 18, 2008	
Annual seven-day minimum	0.05 Oct 22	0.05 Oct 22	0.05 Oct 22, 2011	
Maximum peak flow		Not determined	Not determined	
Maximum peak stage		8.25 Sep 19	10.11 Jul 8, 2011	
Instantaneous low flow		^a 0.03 Oct 24	^a 0.00 Aug 18, 2008	
10 percent exceeds	8.8	9.7	10	
50 percent exceeds	0.77	0.80	1.0	
90 percent exceeds	0.10	0.21	0.22	

^a See Remarks.

