

Water-Data Report 2011

**02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°11'12", long 80°44'12" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank upstream side culvert on Idlewild Road (Secondary Road 3150), 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1999 to current year.

REVISED RECORDS.--WDR NC-04-1: 2000 (annual maximum discharge), 2002 (annual maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 663.92 ft above North American Vertical Datum of 1988. Radio telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records poor. No flow occurred August 10-14, 2002, on many days in August to November 2007, August 2008, and July, September 2011. Maximum discharge for period of record and current water year from rating curve extended above 540 ft<sup>3</sup>/s based on culvert computation of peak flow. Minimum discharge for current water year, no flow, also occurred September 26, 27.

## 02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.2	0.63	20	4.8	1.5	9.3	3.5	1.5	0.34	0.34	6.7	0.21
2	2.2	0.69	1.7	7.4	16	2.9	2.3	1.4	0.28	0.16	3.5	5.0
3	2.1	0.95	0.94	2.0	2.3	1.9	1.9	5.4	0.22	0.12	3.0	2.4
4	2.0	7.8	1.2	1.2	26	1.6	1.7	19	0.18	13	2.8	0.69
5	1.9	1.3	1.2	1.0	23	1.6	13	1.6	0.21	3.8	138	17
6	1.9	0.94	0.80	1.5	3.5	37	2.6	2.4	0.23	11	9.0	7.0
7	1.9	0.67	0.55	1.1	1.8	6.2	2.1	1.0	0.22	13	1.2	1.5
8	1.9	0.78	0.56	0.84	1.4	2.3	1.9	0.58	0.20	3.0	6.8	0.91
9	2.0	0.94	0.55	0.80	0.88	14	9.1	0.46	8.2	3.3	3.5	0.79
10	2.0	0.78	0.66	2.0	1.5	21	4.3	1.2	2.8	0.71	0.25	0.52
11	2.1	0.71	0.66	4.8	0.73	4.9	2.1	22	3.0	0.43	0.49	0.55
12	2.1	0.93	5.7	2.3	0.58	2.5	2.0	10	4.3	0.22	0.20	0.82
13	2.1	1.1	1.4	1.7	0.51	1.9	1.6	1.8	0.95	0.58	0.58	0.91
14	5.7	1.1	0.94	1.4	0.53	1.6	1.5	1.6	0.30	0.97	3.1	2.4
15	2.2	1.3	0.83	1.3	0.47	6.2	1.4	1.5	0.22	0.25	3.1	0.88
16	2.2	5.2	1.7	1.2	0.44	6.3	13	0.97	0.46	0.30	0.44	0.81
17	3.0	2.8	1.8	1.4	0.56	2.3	2.3	24	0.22	0.21	0.31	0.51
18	2.0	0.30	1.2	2.2	0.56	1.9	1.6	2.6	0.31	0.14	0.40	0.45
19	1.2	0.23	1.0	1.4	0.53	1.8	1.6	1.3	0.43	0.13	0.32	0.67
20	1.7	0.32	0.83	1.2	0.55	1.6	1.6	0.88	0.27	0.40	0.31	0.53
21	0.73	0.47	0.67	1.2	0.35	1.7	1.5	0.79	3.5	0.22	3.4	4.6
22	0.63	0.52	0.67	1.6	0.34	1.8	5.8	0.73	15	0.19	7.6	3.5
23	0.62	0.49	0.67	1.8	0.78	1.9	1.9	0.69	0.79	0.07	0.70	117
24	0.73	0.74	0.71	2.3	1.1	3.2	1.6	0.60	2.0	0.17	0.40	10
25	7.4	0.71	1.7	2.3	1.3	1.6	1.4	0.54	0.75	0.04	0.30	1.9
26	3.4	2.1	6.3	7.5	0.99	14	1.4	0.46	0.33	1.5	0.22	2.2
27	1.5	0.40	2.0	2.9	0.98	18	2.0	17	0.11	0.59	0.22	13
28	2.7	0.26	1.2	2.4	19	10	7.5	3.3	17	0.18	0.19	32
29	0.81	0.34	1.1	1.9	---	3.6	1.8	0.84	12	0.10	0.11	2.1
30	0.80	0.82	1.1	1.4	---	34	1.5	0.53	1.0	0.03	0.09	1.1
31	0.81	---	1.1	1.4	---	7.3	---	0.50	---	46	0.13	---
<b>Total</b>	65.53	36.32	61.44	68.24	108.18	225.9	97.5	127.17	75.82	101.15	197.36	231.95
<b>Mean</b>	2.11	1.21	1.98	2.20	3.86	7.29	3.25	4.10	2.53	3.26	6.37	7.73
<b>Max</b>	7.4	7.8	20	7.5	26	37	13	24	17	46	138	117
<b>Min</b>	0.62	0.23	0.55	0.80	0.34	1.6	1.4	0.46	0.11	0.03	0.09	0.21
<b>Cfsm</b>	0.38	0.22	0.35	0.39	0.69	1.30	0.58	0.73	0.45	0.58	1.14	1.38
<b>In.</b>	0.44	0.24	0.41	0.45	0.72	1.50	0.65	0.84	0.50	0.67	1.31	1.54

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.45	4.32	5.48	5.77	6.23	8.62	5.33	4.75	6.40	5.78	5.65	5.58
<b>Max</b>	10.5	15.3	12.9	18.5	11.7	21.1	20.4	17.6	29.2	14.0	18.9	20.6
<b>(WY)</b>	(2000)	(2007)	(2003)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2004)	(2008)	(2004)
<b>Min</b>	0.54	0.38	1.90	1.42	2.69	2.40	1.88	1.10	1.05	1.09	0.72	0.38
<b>(WY)</b>	(2001)	(2008)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2005)

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1999 - 2011	
<b>Annual total</b>	2,351.12		1,396.56			
<b>Annual mean</b>	6.44		3.83		5.65	
<b>Highest annual mean</b>					12.3	2003
<b>Lowest annual mean</b>					3.39	2002
<b>Highest daily mean</b>	356	Jan 25	138	Aug 5	439	Jun 7, 2003
<b>Lowest daily mean</b>	0.18	Jul 8	0.03	Jul 30	<sup>a</sup> 0.00	Aug 8, 2002
<b>Annual seven-day minimum</b>	0.28	Jul 5	0.17	Aug 26	0.00	Sep 3, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 1,020	Aug 5	<sup>a</sup> 3,870	Jun 7, 2003
<b>Maximum peak stage</b>			5.50	Aug 5	9.66	Jun 7, 2003
<b>Instantaneous low flow</b>			<sup>a</sup> 0.00	Jul 30	<sup>a</sup> 0.00	Aug 8, 2002
<b>Annual runoff (cfsm)</b>	1.15		0.683		1.01	
<b>Annual runoff (inches)</b>	15.62		9.28		13.72	
<b>10 percent exceeds</b>	9.9		8.0		10	
<b>50 percent exceeds</b>	1.6		1.4		1.4	
<b>90 percent exceeds</b>	0.64		0.28		0.27	

<sup>a</sup> See Remarks

