

Water-Data Report 2008

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 Secondary Road 3150, 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi².

SURFACE-WATER RECORDS

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

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

REMARKS.--No estimated daily discharges. Records fair. No flow occurred August 10-14, 2002, and on many days in August to November 2007, and August 2008. Maximum discharge for period of record and current water year from rating curve extended above 540 ft³/s based on culvert computation of peak flow.

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.05	2.3	54	1.4	3.1	1.9	0.77	0.13	0.41	0.31
2	0.00	0.01	0.13	1.4	5.5	1.2	1.4	1.5	0.85	0.13	0.01	0.19
3	0.00	0.00	0.11	0.97	2.7	1.1	5.0	1.3	0.51	0.09	0.00	0.14
4	0.40	0.00	0.17	0.76	1.8	44	5.7	1.2	0.50	0.23	0.00	0.13
5	0.07	0.00	0.16	0.77	1.4	25	11	1.1	0.51	3.9	0.00	0.13
6	0.00	0.01	0.27	0.66	1.4	4.8	3.7	0.96	0.35	24	0.00	0.16
7	0.01	0.02	0.39	0.47	1.2	26	2.0	0.92	0.40	1.9	0.00	0.14
8	0.01	0.02	0.53	0.33	0.89	9.1	1.6	1.0	0.23	34	0.00	0.13
9	0.00	0.05	0.47	0.43	0.63	3.5	1.4	1.3	0.22	8.0	0.00	0.18
10	0.00	0.05	0.61	1.5	0.66	2.6	1.3	0.75	0.20	5.5	0.04	31
11	0.00	0.06	0.62	3.8	0.66	2.2	1.3	5.4	3.5	2.1	0.00	5.3
12	0.00	0.07	0.63	0.97	2.9	2.0	11	1.4	2.3	0.53	0.00	1.3
13	0.02	0.09	0.72	0.42	18	1.7	2.1	0.72	0.36	26	11	0.74
14	0.00	0.13	0.63	0.33	5.3	1.7	1.5	0.62	0.31	6.5	0.72	0.31
15	0.00	2.8	6.4	0.25	2.0	64	1.2	0.61	0.32	1.1	15	0.22
16	0.00	0.11	22	0.22	1.4	16	1.1	4.5	0.25	0.30	2.3	49
17	0.00	0.01	1.7	27	1.2	4.1	1.1	0.75	0.12	0.13	11	8.1
18	0.00	0.01	0.74	4.8	4.6	2.6	1.1	1.3	0.07	0.08	1.1	1.5
19	8.6	0.00	0.42	8.7	1.4	16	1.6	1.2	0.06	0.07	0.09	0.72
20	0.11	0.37	0.44	4.4	1.1	7.6	3.6	0.49	0.93	0.05	0.02	0.50
21	0.00	0.15	6.0	1.7	2.3	3.0	1.5	0.51	9.9	0.03	0.00	0.34
22	0.00	1.4	1.1	2.8	9.5	2.1	1.1	0.31	15	4.3	0.00	0.33
23	2.0	0.10	6.0	2.2	2.5	1.7	0.98	0.23	18	12	0.00	0.28
24	20	0.01	1.8	1.1	1.7	1.4	0.98	0.33	1.5	1.3	0.00	0.25
25	35	0.71	0.46	0.74	1.4	1.3	0.91	0.29	0.54	0.23	9.3	0.25
26	22	3.8	24	0.63	14	1.2	9.3	0.19	0.35	0.13	100	35
27	2.9	1.2	2.8	0.60	3.2	1.1	16	0.13	1.1	0.07	423	23
28	0.49	0.10	12	0.50	1.9	1.1	48	19	0.23	0.04	4.2	3.5
29	0.05	0.02	8.4	0.47	1.5	1.1	8.1	2.9	0.15	0.55	4.4	1.3
30	0.00	0.00	34	2.4	---	1.1	2.7	1.2	0.13	0.18	3.3	0.97
31	0.00	---	8.1	0.59	---	4.4	---	0.91	---	0.10	0.80	---
Total	91.66	11.30	141.85	74.21	146.74	256.1	151.37	54.92	59.66	133.67	586.69	165.42
Mean	2.96	0.38	4.58	2.39	5.06	8.26	5.05	1.77	1.99	4.31	18.9	5.51
Max	35	3.8	34	27	54	64	48	19	18	34	423	49
Min	0.00	0.00	0.05	0.22	0.63	1.1	0.91	0.13	0.06	0.03	0.00	0.13
Cfsm	0.53	0.07	0.82	0.43	0.90	1.48	0.90	0.32	0.36	0.77	3.38	0.98
In.	0.61	0.08	0.94	0.49	0.97	1.70	1.01	0.36	0.40	0.89	3.90	1.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.97	4.29	5.17	4.72	6.10	8.74	6.20	4.17	6.61	5.61	5.96	6.07
Max	10.5	15.3	12.9	9.34	9.89	21.1	20.4	17.6	29.2	14.0	18.9	20.6
(WY)	(2000)	(2007)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2008)	(2004)
Min	0.54	0.38	1.90	1.42	2.69	2.40	1.88	1.10	1.05	1.09	0.72	0.38
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2005)

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1999 - 2008	
Annual total	1,146.31		1,873.59			
Annual mean	3.14		5.12		5.69	
Highest annual mean					12.3	2003
Lowest annual mean					3.39	2002
Highest daily mean	104	Mar 2	423	Aug 27	439	Jun 7, 2003
Lowest daily mean	0.00	Aug 20	^a 0.00	Oct 1	^a 0.00	Aug 8, 2002
Annual seven-day minimum	0.00	Sep 3	0.00	Aug 3	0.00	Sep 3, 2007
Maximum peak flow			^a 2,000	Aug 27	^a 3,870	Jun 7, 2003
Maximum peak stage			7.34	Aug 27	9.66	Jun 7, 2003
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	Aug 8, 2002
Annual runoff (cfs)	0.561		0.914		1.02	
Annual runoff (inches)	7.61		12.45		13.81	
10 percent exceeds	6.5		11		11	
50 percent exceeds	1.1		0.92		1.4	
90 percent exceeds	0.00		0.01		0.23	

^aSee Remarks