

Water-Data Report 2007

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(M), 2002(M).

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 and September 2007. Maximum discharge for period of record 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.45	1.0	8.1	11	17	47	1.9	1.3	0.58	2.1	0.29	4.9
2	0.46	1.2	1.7	2.7	8.1	104	2.1	1.2	0.68	0.50	0.22	0.86
3	0.47	1.2	1.1	1.6	2.7	7.5	1.6	1.2	8.2	0.43	0.14	0.00
4	0.44	0.96	1.00	1.5	1.9	4.1	1.6	1.3	1.1	0.37	0.13	0.00
5	0.52	0.96	0.87	29	1.6	3.2	1.4	1.9	0.78	0.34	0.51	0.00
6	0.58	1.0	0.84	8.4	1.4	2.7	1.4	1.6	0.67	0.32	1.1	0.00
7	0.91	23	0.82	21	1.4	2.5	1.4	1.2	0.59	8.4	0.37	0.00
8	14	18	0.74	28	1.2	2.4	1.4	1.1	0.63	2.0	0.07	0.00
9	1.1	2.0	0.76	4.5	1.2	2.2	1.4	1.7	0.59	1.2	0.04	0.00
10	0.56	1.3	0.77	2.5	1.1	2.1	1.5	1.5	0.52	1.1	0.01	0.00
11	0.50	13	0.77	1.9	1.1	2.0	6.3	1.2	0.78	1.0	0.02	0.00
12	1.4	31	0.76	1.7	1.1	1.9	13	2.4	3.4	1.8	0.16	0.00
13	0.50	2.7	0.77	1.6	38	1.8	1.8	1.6	2.4	0.88	0.10	0.00
14	0.45	1.6	0.80	1.5	26	1.9	2.5	1.1	5.6	0.82	0.15	2.8
15	0.50	3.9	0.78	1.4	4.7	2.0	55	1.0	3.0	3.3	0.04	4.3
16	0.50	98	0.72	1.3	3.2	11	6.9	1.0	1.6	2.3	0.12	0.01
17	58	5.9	0.69	1.1	2.7	2.8	2.9	0.99	1.1	0.97	0.04	0.00
18	10	2.6	0.71	3.4	2.4	2.0	2.2	0.94	0.62	3.3	0.04	0.00
19	2.1	1.9	0.79	1.9	2.1	1.8	7.5	0.93	0.56	0.92	0.06	0.00
20	1.3	1.5	0.73	1.2	2.1	1.8	6.7	0.90	0.81	0.84	0.00	0.00
21	0.94	72	1.0	11	2.2	1.9	2.0	0.85	2.5	0.77	0.04	0.00
22	1.1	152	29	13	2.0	1.9	1.7	0.80	0.36	0.69	2.4	0.00
23	0.91	10	6.0	2.8	1.9	2.0	1.5	0.82	0.27	0.68	5.7	0.00
24	0.91	3.6	2.1	1.9	1.8	2.0	1.5	0.84	1.4	0.71	1.5	0.00
25	0.89	2.1	41	1.6	19	1.9	1.5	0.85	31	0.84	0.01	0.00
26	0.96	1.5	6.5	1.4	5.0	1.9	1.6	0.70	6.7	0.78	1.5	0.00
27	14	1.1	2.8	1.3	2.8	1.8	6.3	0.67	1.4	6.2	1.3	0.00
28	20	1.0	1.9	1.3	2.2	1.7	1.6	0.65	0.74	5.5	0.00	0.00
29	1.9	0.92	1.5	1.1	---	2.5	1.4	0.62	0.52	2.2	0.00	0.00
30	1.2	3.2	1.3	1.1	---	1.5	1.3	0.59	8.5	1.8	1.0	0.00
31	0.98	---	3.6	1.1	---	1.5	---	0.60	---	0.66	5.3	---
Total	138.53	460.14	120.92	164.8	157.9	227.3	140.9	34.05	87.60	53.72	22.36	12.87
Mean	4.47	15.3	3.90	5.32	5.64	7.33	4.70	1.10	2.92	1.73	0.72	0.43
Max	58	152	41	29	38	104	55	2.4	31	8.4	5.7	4.9
Min	0.44	0.92	0.69	1.1	1.1	1.5	1.3	0.59	0.27	0.32	0.00	0.00
Cfsm	0.80	2.74	0.70	0.95	1.01	1.31	0.84	0.20	0.52	0.31	0.13	0.08
In.	0.92	3.06	0.80	1.09	1.05	1.51	0.94	0.23	0.58	0.36	0.15	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.10	4.78	5.25	5.01	6.23	8.80	6.34	4.47	7.19	5.75	4.52	6.13
Max	10.5	15.3	12.9	9.34	9.89	21.1	20.4	17.6	29.2	14.0	9.29	20.6
(WY)	(2000)	(2007)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2006)	(2004)
Min	0.54	0.83	1.90	1.42	2.69	2.40	1.88	1.10	1.05	1.09	0.72	0.38
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2005)

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	1,993.83		1,621.09			
Annual mean	5.46		4.44		5.76	
Highest annual mean					12.3	2003
Lowest annual mean					3.39	2002
Highest daily mean	152	Nov 22	152	Nov 22	439	Jun 7, 2003
Lowest daily mean	0.36	Jul 11	^a 0.00	Aug 20	^a 0.00	Aug 8, 2002
Annual seven-day minimum	0.39	Jul 11	0.00	Sep 3	0.00	Sep 3, 2007
Maximum peak flow			465	Mar 2	^a 3,870	Jun 7, 2003
Maximum peak stage			4.18	Mar 2	9.66	Jun 7, 2003
Instantaneous low flow			^a 0.00	Aug 10	^a 0.00	Aug 8, 2002
Annual runoff (cfsm)	0.975		0.793		1.03	
Annual runoff (inches)	13.24		10.77		13.98	
10 percent exceeds	11		8.1		11	
50 percent exceeds	1.5		1.3		1.4	
90 percent exceeds	0.54		0.04		0.34	

^a See Remarks

