



Water-Data Report 2010

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 (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, 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. Minimum discharge for current water year also occurred October 2, 4, 9.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.08	35	1.9	2.5	7.1	2.5	2.0	1.0	179	3.0	3.2	1.1
2	0.06	2.0	38	2.2	34	6.6	1.7	1.0	42	1.4	0.73	0.94
3	0.07	0.96	14	2.0	17	11	1.5	2.6	6.2	0.65	0.33	0.91
4	0.05	0.63	3.8	1.9	7.0	3.8	1.4	1.3	1.5	0.46	0.28	0.79
5	7.7	0.72	3.8	1.8	132	2.7	1.1	0.99	0.76	0.35	61	0.78
6	0.76	0.78	2.6	1.8	22	2.4	1.2	0.92	0.80	0.37	20	0.82
7	0.29	0.85	1.8	1.8	6.3	2.3	1.0	0.80	1.4	0.26	10	0.91
8	0.15	0.93	17	1.8	4.1	2.3	3.5	0.74	0.46	0.18	2.7	1.0
9	0.17	0.97	50	1.6	5.2	2.1	3.7	0.64	0.48	0.22	1.6	0.91
10	0.22	32	6.2	1.7	3.7	2.3	1.9	0.81	5.3	0.32	0.82	0.80
11	0.16	114	2.9	2.7	2.8	5.1	1.7	2.2	1.4	0.28	0.79	1.5
12	2.0	36	2.2	2.6	2.3	33	1.7	1.1	0.84	158	0.64	1.1
13	0.66	5.9	7.7	1.6	6.4	32	1.7	0.75	22	10	0.57	0.88
14	3.0	2.3	3.2	1.6	3.1	13	1.6	0.67	4.4	2.3	17	0.99
15	2.3	1.5	2.5	1.5	9.9	6.3	1.4	0.68	10	1.6	6.5	0.88
16	0.91	1.1	2.0	2.4	3.8	4.4	1.5	1.9	2.6	2.0	1.1	0.81
17	1.2	1.00	1.8	55	2.9	3.9	1.4	17	1.2	6.6	1.1	0.90
18	0.44	2.1	19	7.2	2.5	3.7	1.3	2.9	0.89	2.4	0.88	1.0
19	0.39	1.5	21	3.8	2.4	3.3	1.3	1.2	0.79	1.4	52	0.94
20	0.22	1.2	4.7	3.0	2.4	3.1	1.6	1.00	0.79	1.2	9.3	0.86
21	0.21	1.2	2.8	23	3.2	5.6	2.9	1.7	0.81	1.3	2.8	0.78
22	0.21	3.4	2.3	13	18	7.0	1.4	1.4	0.64	1.2	1.9	0.98
23	0.22	22	2.2	4.6	6.4	3.5	1.3	0.81	0.59	1.0	1.6	1.1
24	1.6	3.4	2.1	42	8.0	3.0	2.0	2.9	0.51	3.9	1.4	0.87
25	0.32	2.1	110	356	5.7	2.9	8.2	1.4	0.47	1.5	1.4	0.85
26	0.33	1.7	14	8.6	3.6	2.7	1.5	0.93	0.46	1.2	1.4	8.4
27	19	1.5	4.9	4.0	3.0	2.6	6.8	0.72	0.74	57	1.3	17
28	9.4	1.3	3.3	2.7	2.7	15	3.1	1.8	0.53	9.6	1.2	9.0
29	1.2	1.3	2.4	2.5	---	39	1.4	5.3	0.40	0.81	1.1	17
30	0.76	2.4	2.2	5.8	---	5.0	1.1	0.59	43	0.28	1.1	18
31	3.2	---	7.5	10	---	2.7	---	25	---	4.9	1.0	---
Total	57.28	281.74	359.8	572.7	327.5	234.8	63.9	82.75	330.96	275.68	206.74	92.80
Mean	1.85	9.39	11.6	18.5	11.7	7.57	2.13	2.67	11.0	8.89	6.67	3.09
Max	19	114	110	356	132	39	8.2	25	179	158	61	18
Min	0.05	0.63	1.8	1.5	2.3	2.1	1.0	0.59	0.40	0.18	0.28	0.78
Cfsm	0.33	1.68	2.07	3.30	2.09	1.35	0.38	0.48	1.97	1.59	1.19	0.55
In.	0.38	1.87	2.39	3.80	2.18	1.56	0.42	0.55	2.20	1.83	1.37	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.57	4.60	5.80	6.10	6.44	8.74	5.52	4.81	6.75	5.99	5.59	5.40
Max	10.5	15.3	12.9	18.5	11.7	21.1	20.4	17.6	29.2	14.0	18.9	20.6
(WY)	(2000)	(2007)	(2003)	(2010)	(2010)	(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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1999 - 2010	
Annual total	2,181.14		2,886.65			
Annual mean	5.98		7.91		5.82	
Highest annual mean					12.3	2003
Lowest annual mean					3.39	2002
Highest daily mean	238	May 5	356	Jan 25	439	Jun 7, 2003
Lowest daily mean	0.03	Jul 20	0.05	Oct 4	^a 0.00	Aug 8, 2002
Annual seven-day minimum	0.07	Jul 15	0.28	Jul 5	0.00	Sep 3, 2007
Maximum peak flow			^a 2,360	Jan 25	^a 3,870	Jun 7, 2003
Maximum peak stage			7.86	Jan 25	9.66	Jun 7, 2003
Instantaneous low flow			^a 0.02	Oct 1	^a 0.00	Aug 8, 2002
Annual runoff (cfsm)	1.07		1.41		1.04	
Annual runoff (inches)	14.49		19.18		14.12	
10 percent exceeds	12		17		11	
50 percent exceeds	1.6		1.9		1.4	
90 percent exceeds	0.26		0.58		0.27	

^a See Remarks

