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Water-Data Report 2009

**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 mi<sup>2</sup>.

**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 streamgage.

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 ft<sup>3</sup>/s based on culvert computation of peak flow. Minimum discharge for current water year also occurred July 20, 21, September 15.

## Water-Data Report 2009

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.73	0.58	4.3	1.4	1.6	93	2.1	1.1	0.89	0.29	1.4	0.48
<b>2</b>	0.62	0.57	1.7	1.4	4.5	34	2.2	2.7	1.2	0.24	3.8	0.28
<b>3</b>	0.56	1.8	1.8	1.4	6.8	8.8	4.4	1.9	0.74	0.25	1.2	0.28
<b>4</b>	0.52	1.5	1.1	24	2.0	4.3	1.7	12	17	0.22	0.91	0.37
<b>5</b>	0.53	0.74	1.1	3.4	1.6	3.0	1.6	238	45	0.23	0.62	0.36
<b>6</b>	0.48	0.57	1.1	67	1.6	2.4	2.3	25	7.6	0.28	3.5	0.29
<b>7</b>	0.56	0.58	1.1	33	1.6	2.0	1.6	4.6	2.0	0.27	0.65	0.27
<b>8</b>	16	0.54	1.0	10	1.6	1.8	1.6	2.1	1.4	0.23	0.56	0.26
<b>9</b>	4.4	0.58	0.87	2.9	1.6	1.7	1.6	1.6	1.1	8.7	0.47	0.31
<b>10</b>	1.2	0.59	7.5	2.2	1.6	1.5	9.6	1.3	1.0	0.67	0.47	1.2
<b>11</b>	0.62	0.60	64	2.7	2.4	1.4	13	2.1	3.7	0.22	0.51	0.42
<b>12</b>	0.61	0.61	34	1.7	2.7	1.4	2.2	1.2	5.3	0.13	1.2	0.31
<b>13</b>	0.62	1.8	4.1	1.6	1.6	3.3	1.7	1.0	2.0	4.5	0.74	0.24
<b>14</b>	0.62	13	2.7	1.5	2.1	14	7.5	0.96	1.1	0.31	0.59	0.09
<b>15</b>	0.79	4.6	3.1	1.4	1.7	19	1.9	3.6	1.5	0.12	0.65	0.05
<b>16</b>	0.79	0.95	1.9	1.4	7.1	8.3	1.6	4.7	0.99	0.09	1.5	2.8
<b>17</b>	4.1	0.62	1.5	1.4	1.8	4.3	1.4	2.9	9.8	0.09	0.86	0.73
<b>18</b>	8.1	0.60	1.4	1.6	15	2.5	1.4	4.5	2.0	0.07	0.41	0.21
<b>19</b>	0.64	0.66	1.4	1.7	7.5	4.6	1.4	1.1	1.4	0.05	0.40	0.17
<b>20</b>	0.42	0.67	5.6	2.2	2.4	6.0	12	0.95	0.92	0.03	2.4	6.3
<b>21</b>	0.38	0.61	11	1.7	2.0	2.1	1.9	0.95	0.78	0.06	0.72	0.35
<b>22</b>	0.44	0.51	2.3	1.7	1.9	1.8	1.5	0.91	0.77	4.9	0.45	0.17
<b>23</b>	0.48	0.62	1.6	1.6	1.8	1.8	1.4	1.0	0.74	27	0.46	0.15
<b>24</b>	0.65	0.60	1.6	1.6	1.8	1.7	1.3	14	0.50	7.8	0.43	0.22
<b>25</b>	3.4	3.5	2.3	1.5	1.8	2.7	1.3	38	0.44	0.75	0.37	0.27
<b>26</b>	0.65	0.66	1.6	1.5	1.8	4.0	1.2	8.5	0.38	0.33	0.35	9.6
<b>27</b>	0.52	0.47	2.9	1.6	3.6	6.9	1.1	4.2	0.34	5.8	0.37	5.7
<b>28</b>	0.54	0.47	3.3	7.7	37	48	1.1	6.6	0.32	78	0.34	0.65
<b>29</b>	0.56	2.2	2.9	2.8	---	15	1.1	4.0	0.30	64	0.45	0.26
<b>30</b>	0.54	38	1.7	1.7	---	3.7	1.1	1.3	0.28	6.4	0.36	0.13
<b>31</b>	0.60	---	1.5	1.6	---	2.4	---	1.0	---	1.8	0.57	---
<b>Total</b>	51.67	79.80	173.97	188.9	120.5	307.4	85.8	393.77	111.49	213.83	27.71	32.92
<b>Mean</b>	1.67	2.66	5.61	6.09	4.30	9.92	2.86	12.7	3.72	6.90	0.89	1.10
<b>Max</b>	16	38	64	67	37	93	13	238	45	78	3.8	9.6
<b>Min</b>	0.38	0.47	0.87	1.4	1.6	1.4	1.1	0.91	0.28	0.03	0.34	0.05
<b>Cfsm</b>	0.30	0.47	1.00	1.09	0.77	1.77	0.51	2.27	0.66	1.23	0.16	0.20
<b>In.</b>	0.34	0.53	1.16	1.25	0.80	2.04	0.57	2.62	0.74	1.42	0.18	0.22

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2009, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	3.74	4.13	5.22	4.86	5.92	8.85	5.86	5.02	6.32	5.72	5.50	5.61
<b>Max</b>	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)
<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
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2005)

**SUMMARY STATISTICS**

	<b>Calendar Year 2008</b>	<b>Water Year 2009</b>	<b>Water Years 1999 - 2009</b>
<b>Annual total</b>	1,934.22	1,787.76	
<b>Annual mean</b>	5.28	4.90	5.61
<b>Highest annual mean</b>			12.3
<b>Lowest annual mean</b>			3.39
<b>Highest daily mean</b>	423 Aug 27	238 May 5	439 Jun 7, 2003
<b>Lowest daily mean</b>	0.00 Aug 3	0.03 Jul 20	<sup>a</sup> 0.00 Aug 8, 2002
<b>Annual seven-day minimum</b>	0.00 Aug 3	0.07 Jul 15	0.00 Sep 3, 2007
<b>Maximum peak flow</b>		<sup>a</sup> 2,210 May 5	<sup>a</sup> 3,870 Jun 7, 2003
<b>Maximum peak stage</b>		7.65 May 5	9.66 Jun 7, 2003
<b>Instantaneous low flow</b>		<sup>a</sup> 0.02 Jul 19	<sup>a</sup> 0.00 Aug 8, 2002
<b>Annual runoff (cfsm)</b>	0.944	0.875	1.00
<b>Annual runoff (inches)</b>	12.85	11.88	13.61
<b>10 percent exceeds</b>	10	8.4	10
<b>50 percent exceeds</b>	1.1	1.5	1.4
<b>90 percent exceeds</b>	0.13	0.31	0.25

<sup>a</sup> See Remarks

