



Water-Data Report 2011

**021473426 TOOLS FORK CREEK NEAR ROCK HILL, SC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 34°57'23", long 81°06'23" referenced to North American Datum of 1927, York County, SC, Hydrologic Unit 03050103, upstream side of bridge on State Highway 5, 3.0 mi west of Rockhill and 7.2 mi east of York.

DRAINAGE AREA.--9.60 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1998 to September 2000, April 2006 to current year.

GAGE.--Data collection platform. Elevation of gage is 558 ft above NGVD of 1929 (from topographic map). Prior to April 27, 2006 at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

## 021473426 TOOLS FORK CREEK NEAR ROCK HILL, SC—Continued

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

<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>	0.23	0.12	7.6	e0.72	0.39	16	13	1.1	1.3	0.24	0.62	0.32
<b>2</b>	0.18	0.13	1.3	0.83	6.1	3.9	9.0	0.98	1.00	0.16	0.11	0.73
<b>3</b>	0.16	0.14	0.75	0.68	1.7	2.4	6.2	0.92	0.84	0.12	0.10	0.18
<b>4</b>	0.20	0.40	0.66	0.47	13	1.7	5.1	2.6	0.71	4.9	0.09	0.10
<b>5</b>	0.18	0.31	0.57	0.42	25	2.0	16	1.1	0.98	4.2	1.1	0.86
<b>6</b>	0.18	0.17	0.48	0.47	7.8	19	8.0	1.1	1.8	0.77	0.46	0.74
<b>7</b>	0.16	0.15	e0.36	0.42	4.0	12	5.5	0.94	0.73	3.0	0.30	0.16
<b>8</b>	0.14	0.20	e0.31	0.37	3.1	5.4	4.4	0.82	0.56	3.7	0.10	0.13
<b>9</b>	0.13	0.22	e0.38	e0.22	2.3	8.4	21	0.65	0.46	2.8	0.08	0.12
<b>10</b>	0.14	0.20	0.50	e0.29	2.0	21	33	0.53	0.38	e0.55	0.07	0.11
<b>11</b>	0.13	0.16	0.53	e0.60	1.6	8.1	13	10	0.30	0.46	0.07	0.10
<b>12</b>	0.15	0.17	1.6	e0.54	1.4	4.6	8.3	2.8	0.42	0.38	0.11	0.11
<b>13</b>	0.10	0.14	0.92	e0.39	1.3	3.6	5.1	2.0	0.44	44	10	0.12
<b>14</b>	0.10	0.18	e0.45	e0.34	1.3	2.8	3.9	4.3	0.26	14	7.2	0.11
<b>15</b>	0.11	0.17	e0.34	e0.40	1.1	3.0	3.3	11	0.25	1.4	1.1	0.10
<b>16</b>	0.10	0.42	e0.37	0.56	1.2	3.7	8.1	9.8	0.75	0.72	0.65	0.06
<b>17</b>	0.15	4.1	0.47	0.53	1.2	2.2	4.9	67	0.30	0.47	0.52	0.12
<b>18</b>	0.10	0.60	0.53	0.80	1.1	1.8	3.4	21	0.24	0.35	0.48	0.14
<b>19</b>	0.09	0.44	0.56	0.56	1.0	1.5	2.8	9.8	0.29	0.30	0.48	0.15
<b>20</b>	0.11	0.40	0.51	0.53	0.98	1.4	2.3	6.5	0.18	0.25	0.46	0.15
<b>21</b>	0.10	0.38	0.54	0.47	1.0	1.5	2.2	4.8	0.72	0.23	0.44	0.21
<b>22</b>	0.08	0.39	0.54	0.41	0.97	1.4	2.6	3.3	5.6	0.19	0.42	0.24
<b>23</b>	0.08	0.39	0.41	0.53	0.87	1.3	2.4	2.2	0.52	0.23	0.39	6.6
<b>24</b>	0.08	0.44	0.41	0.36	0.88	1.1	1.9	1.7	0.34	0.16	0.40	0.81
<b>25</b>	0.11	0.37	0.47	0.41	1.0	1.1	1.6	1.3	0.21	0.17	0.39	6.4
<b>26</b>	0.57	0.42	0.83	0.97	0.90	8.5	1.5	1.1	0.17	0.16	0.39	3.0
<b>27</b>	0.19	0.43	0.45	0.60	0.91	25	1.4	15	0.15	0.16	0.37	0.56
<b>28</b>	0.24	0.31	e0.30	0.49	6.1	14	3.5	13	2.9	0.14	0.35	0.60
<b>29</b>	0.15	0.35	e0.30	0.44	---	9.8	1.7	4.6	6.2	0.12	0.35	0.30
<b>30</b>	0.15	0.28	0.34	0.43	---	31	1.3	2.8	0.49	0.10	0.36	0.20
<b>31</b>	0.18	---	0.36	0.38	---	19	---	1.8	---	0.43	0.35	---
<b>Total</b>	4.77	12.58	24.14	15.63	90.20	238.2	196.4	206.54	29.49	84.86	28.31	23.53
<b>Mean</b>	0.15	0.42	0.78	0.50	3.22	7.68	6.55	6.66	0.98	2.74	0.91	0.78
<b>Max</b>	0.57	4.1	7.6	0.97	25	31	33	67	6.2	44	10	6.6
<b>Min</b>	0.08	0.12	0.30	0.22	0.39	1.1	1.3	0.53	0.15	0.10	0.07	0.06
<b>Cfsm</b>	0.02	0.04	0.08	0.05	0.34	0.80	0.68	0.69	0.10	0.29	0.10	0.08
<b>In.</b>	0.02	0.05	0.09	0.06	0.35	0.92	0.76	0.80	0.11	0.33	0.11	0.09

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, 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>	1.73	5.68	6.96	8.60	9.00	11.8	5.38	2.94	2.72	1.35	4.27	4.33
<b>Max</b>	3.11	21.4	21.9	17.9	22.4	21.6	6.55	6.66	9.81	2.74	25.5	22.3
(WY)	(2001)	(2007)	(2010)	(2010)	(2010)	(2009)	(2011)	(2011)	(2009)	(2011)	(2008)	(2000)
<b>Min</b>	0.01	0.07	0.78	0.50	3.22	5.50	4.28	1.05	0.33	0.48	0.11	0.01
(WY)	(2008)	(2008)	(2011)	(2011)	(2011)	(1999)	(2010)	(2008)	(2008)	(2008)	(2007)	(2007)

**021473426 TOOLS FORK CREEK NEAR ROCK HILL, SC—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1998 - 2011</b>	
<b>Annual total</b>	1,923.50	954.65		
<b>Annual mean</b>	5.27	2.62	5.41	
<b>Highest annual mean</b>			7.96	2010
<b>Lowest annual mean</b>			2.62	2011
<b>Highest daily mean</b>	e250 Feb 5	67 May 17	e370 Aug 26, 2008	
<b>Lowest daily mean</b>	0.01 Sep 24 <sup>a</sup>	0.06 Sep 16	0.00 Sep 4, 2007 <sup>b</sup>	
<b>Annual seven-day minimum</b>	0.02 Sep 19	0.09 Oct 18	0.00 Sep 4, 2007	
<b>Maximum peak flow</b>		232 Jul 13	Unknown	Aug 26, 2008
<b>Maximum peak stage</b>		6.18 Jul 13	10.85	Aug 26, 2008
<b>Annual runoff (cfsm)</b>	0.549	0.272	0.564	
<b>Annual runoff (inches)</b>	7.45	3.70	7.66	
<b>10 percent exceeds</b>	11	7.4	9.4	
<b>50 percent exceeds</b>	0.92	0.53	1.8	
<b>90 percent exceeds</b>	0.11	0.13	0.12	

<sup>e</sup> Estimated.<sup>a</sup> Also occurred Sep. 25.<sup>b</sup> Also occurred many days in 2007, 2008.