# 02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°12′24″, long 80°55′19″ referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank on northeast corner of intersection of Billy Graham Parkway, and North Carolina highway 160 (West Boulevard), 1.2 mi upstream of confluence with Irwin Creek, and 5.0 mi from City Hall in Charlotte, NC.

DRAINAGE AREA.--5.38 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage 604.27 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow for part of August 8, 2002.

**02146315 TAGGART CREEK AT WEST BOULEVARD 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** | 0.83 | 1.1 | 2.7 | 17 | 17 | 123 | 2.6 | 1.3 | 0.84 | 0.63 | 0.46 | 0.53 |
| **2** | 0.84 | 1.2 | 1.7 | 3.3 | 6.6 | 259 | 2.6 | 1.6 | 0.91 | 0.50 | 0.42 | 0.67 |
| **3** | 0.73 | 1.1 | 1.5 | 2.2 | 2.5 | 9.2 | 2.2 | 1.2 | 7.5 | 0.49 | 0.42 | 0.28 |
| **4** | 0.75 | 1.1 | 1.6 | 2.0 | 2.0 | 5.5 | 2.2 | 2.0 | 1.0 | 0.47 | 0.42 | 0.29 |
| **5** | 0.67 | 1.2 | 1.6 | 22 | 1.8 | 4.3 | 2.3 | 5.6 | 0.80 | 0.44 | 0.40 | 0.23 |
| **6** | 0.92 | 1.1 | 1.8 | 9.3 | 1.7 | 3.5 | 2.3 | 2.0 | 0.74 | 3.6 | 0.41 | 0.23 |
| **7** | 0.78 | 39 | 1.5 | 38 | 1.7 | 3.2 | 2.3 | 1.2 | 0.71 | 0.50 | 0.32 | 0.21 |
| **8** | 19 | 29 | 1.4 | 64 | 1.7 | 3.1 | 2.4 | 1.2 | 0.72 | 0.40 | 0.26 | 0.24 |
| **9** | 0.88 | 2.2 | 1.4 | 6.1 | 1.6 | 2.8 | 2.5 | 4.0 | 0.80 | 49 | 0.33 | 0.24 |
| **10** | 0.60 | 1.6 | 1.4 | 3.5 | 1.6 | 2.8 | 2.5 | 2.0 | 0.66 | 4.7 | 0.89 | 0.22 |
| **11** | 0.64 | 15 | 1.5 | 2.6 | 1.8 | 2.7 | 11 | 1.2 | 13 | 2.3 | 0.52 | 0.25 |
| **12** | 1.5 | 23 | 2.1 | 2.3 | 1.7 | 2.6 | 22 | 3.9 | 1.9 | 0.91 | 0.36 | 0.25 |
| **13** | 0.74 | 1.7 | 1.9 | 2.1 | 43 | 2.7 | 2.4 | 1.7 | 0.97 | 0.55 | 0.36 | 0.28 |
| **14** | 0.71 | 1.3 | 1.4 | 2.0 | 15 | 2.6 | 19 | 1.1 | 7.9 | 0.69 | 0.37 | 13 |
| **15** | 0.71 | 24 | 1.4 | 1.9 | 3.5 | 2.5 | 70 | 1.0 | 1.8 | 5.6 | 0.37 | 3.8 |
| **16** | 0.76 | 118 | 1.3 | 1.8 | 2.5 | 31 | 5.2 | 1.0 | 0.88 | 1.7 | 0.41 | 0.35 |
| **17** | 76 | 5.1 | 1.5 | 1.5 | 2.2 | 5.0 | 3.1 | 1.00 | 0.73 | 2.8 | 0.56 | 0.25 |
| **18** | 6.0 | 2.9 | 1.4 | 5.0 | 2.0 | 3.2 | 2.0 | 0.95 | 0.61 | 14 | 1.2 | 0.24 |
| **19** | 1.3 | 2.4 | 1.4 | 2.4 | 2.0 | 2.7 | 13 | 0.95 | 0.59 | 0.96 | 0.62 | 0.26 |
| **20** | 1.2 | 2.0 | 1.3 | 1.7 | 2.0 | 2.6 | 7.3 | 0.93 | 0.62 | 0.50 | 0.37 | 0.26 |
| **21** | 1.1 | 73 | 1.6 | 19 | 1.9 | 2.5 | 2.2 | 0.89 | 0.55 | 0.42 | 0.51 | 0.33 |
| **22** | 1.2 | 220 | 37 | 12 | 1.8 | 2.5 | 1.8 | 0.89 | 0.58 | 0.35 | 0.50 | 0.50 |
| **23** | 1.3 | 11 | 4.9 | 2.9 | 1.6 | 2.4 | 1.7 | 0.96 | 0.66 | 0.33 | 0.49 | 0.30 |
| **24** | 1.3 | 4.1 | 2.1 | 2.2 | 1.6 | 2.3 | 1.8 | 0.95 | 0.66 | 0.31 | 0.78 | 0.32 |
| **25** | 1.4 | 2.9 | 68 | 2.0 | 34 | 2.3 | 1.8 | 1.00 | 7.8 | 0.29 | 0.44 | 0.30 |
| **26** | 1.5 | 2.3 | 6.8 | 1.8 | 4.8 | 2.2 | 1.6 | 0.99 | 2.6 | 0.28 | 0.36 | 0.27 |
| **27** | 23 | 2.3 | 3.1 | 1.8 | 2.6 | 2.2 | 12 | 0.97 | 0.69 | 16 | 0.97 | 0.26 |
| **28** | 21 | 2.0 | 2.2 | 1.8 | 2.1 | 2.2 | 1.8 | 0.94 | 0.54 | 4.9 | 0.46 | 0.25 |
| **29** | 1.6 | 1.9 | 1.9 | 1.6 | --- | 3.3 | 1.4 | 0.92 | 0.50 | 0.49 | 0.29 | 0.23 |
| **30** | 1.2 | 1.8 | 1.8 | 1.6 | --- | 2.1 | 1.4 | 0.84 | 3.7 | 0.69 | 0.37 | 0.19 |
| **31** | 1.2 | --- | 6.0 | 1.5 | --- | 2.0 | --- | 0.86 | --- | 0.45 | 0.46 | --- |
| **Total** | 171.36 | 595.3 | 167.2 | 238.9 | 164.3 | 500.0 | 206.4 | 46.04 | 61.96 | 115.25 | 15.10 | 25.03 |
| **Mean** | 5.53 | 19.8 | 5.39 | 7.71 | 5.87 | 16.1 | 6.88 | 1.49 | 2.07 | 3.72 | 0.49 | 0.83 |
| **Max** | 76 | 220 | 68 | 64 | 43 | 259 | 70 | 5.6 | 13 | 49 | 1.2 | 13 |
| **Min** | 0.60 | 1.1 | 1.3 | 1.5 | 1.6 | 2.0 | 1.4 | 0.84 | 0.50 | 0.28 | 0.26 | 0.19 |
| **Cfsm** | 1.03 | 3.69 | 1.00 | 1.43 | 1.09 | 3.00 | 1.28 | 0.28 | 0.38 | 0.69 | 0.09 | 0.16 |
| **In.** | 1.18 | 4.12 | 1.16 | 1.65 | 1.14 | 3.46 | 1.43 | 0.32 | 0.43 | 0.80 | 0.10 | 0.17 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mean** | 3.73 | 4.65 | 5.21 | 4.73 | 5.28 | 8.51 | 6.25 | 5.08 | 5.63 | 5.01 | 5.95 | 4.68 |
| **Max** | 9.39 | 19.8 | 14.1 | 7.71 | 8.83 | 20.5 | 22.1 | 30.0 | 16.4 | 12.2 | 22.1 | 12.3 |
| **(WY)** | (2003) | (2007) | (2003) | (2007) | (2003) | (2003) | (2003) | (2003) | (2003) | (2006) | (2003) | (2004) |
| **Min** | 0.35 | 0.65 | 1.48 | 2.05 | 2.26 | 2.32 | 1.25 | 1.36 | 0.99 | 1.03 | 0.20 | 0.77 |
| **(WY)** | (2001) | (2002) | (2001) | (2004) | (2002) | (2006) | (2002) | (2000) | (2002) | (2001) | (2001) | (2005) |

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**SUMMARY STATISTICS**

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1998 - 2007 | |
|---|---|---|---|---|---|---|
| **Annual total** | 2,610.15 | | 2,306.84 | | | |
| **Annual mean** | 7.15 | | 6.32 | | 5.44 | |
| **Highest annual mean** | | | | | 14.1 | 2003 |
| **Lowest annual mean** | | | | | 2.35 | 2001 |
| **Highest daily mean** | 220 | Nov 22 | 259 | Mar 2 | 388 | May 22, 2003 |
| **Lowest daily mean** | 0.38 | Aug 9 | 0.19 | Sep 30 | 0.01 | Aug 8, 2002 |
| **Annual seven-day minimum** | 0.67 | Jul 29 | 0.23 | Sep 5 | 0.08 | Aug 3, 2002 |
| **Maximum peak flow** | | | 1,940 | Mar 2 | 3,490 | Jul 22, 2006 |
| **Maximum peak stage** | | | 9.04 | Mar 2 | 11.47 | Jul 22, 2006 |
| **Instantaneous low flow** | | | 0.14 | Sep 30 | [a]0.00 | Aug 8, 2002 |
| **Annual runoff (cfsm)** | 1.33 | | 1.17 | | 1.01 | |
| **Annual runoff (inches)** | 18.05 | | 15.95 | | 13.73 | |
| **10 percent exceeds** | 11 | | 12 | | 9.5 | |
| **50 percent exceeds** | 1.4 | | 1.6 | | 1.3 | |
| **90 percent exceeds** | 0.72 | | 0.36 | | 0.29 | |

[a] See Remarks.