



**Missouri Department of Natural Resources**  
**Spring River - WBID 3160**  
**Bacterial Data, 2005-07**

**Sampling Organizations:**

CHS: Carthage High School Volunteer Water Quality Monitors  
 JCHD: Jasper County Health Dept.  
 KDHE: Kansas Dept. of Health and Environment  
 MoDNR: Missouri Dept. of Natural Resources  
 MoDNR/CASI: Sample collection by MoDNR, analysis by CASI consultants  
 NCHD: Newton County Health Dept.

| Org                    | Site      | Site Name             | Yr   | Mo | Dy | FC | Ecoli      |
|------------------------|-----------|-----------------------|------|----|----|----|------------|
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 5  | 24 |    | 115        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 5  | 30 |    | 107        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 6  | 5  |    | 517        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 6  | 13 |    | 870        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 6  | 19 |    | 291        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 6  | 26 |    | 816        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 7  | 2  |    | 1046       |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 7  | 10 |    | 1986       |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 7  | 17 |    | 172        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 7  | 31 |    | 82         |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 8  | 7  |    | 64         |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 8  | 14 |    | 76         |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 8  | 21 |    | 4839       |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 8  | 29 |    | 159        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 9  | 5  |    | 326        |
| JCHD                   | 3160/46.9 | Spring R. @ HWY U     | 2007 | 9  | 11 |    | 387        |
| <b>Geometric Mean:</b> |           |                       |      |    |    |    | <b>328</b> |
| Org                    | Site      | Site Name             | Yr   | Mo | Dy | FC | Ecoli      |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 4  | 29 |    | 135        |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 5  | 6  |    | 126        |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 5  | 13 |    | 727        |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 5  | 20 |    | 133        |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 5  | 25 |    | 105        |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 6  | 4  |    | 1986       |
| CHS                    | 3160/44.7 | Spring R. @La Russell | 2007 | 6  | 25 |    | 365        |
| NCHD                   | 3160/44.7 | Spring R. @La Russell | 2007 | 8  | 28 |    | 73         |
| NCHD                   | 3160/44.7 | Spring R. @La Russell | 2007 | 9  | 4  |    | 133        |
| NCHD                   | 3160/44.7 | Spring R. @La Russell | 2007 | 9  | 12 |    | 94         |
| NCHD                   | 3160/44.7 | Spring R. @La Russell | 2007 | 9  | 18 |    | 56         |
| NCHD                   | 3160/44.7 | Spring R. @La Russell | 2007 | 9  | 25 |    | 80         |
| <b>Geometric Mean:</b> |           |                       |      |    |    |    | <b>168</b> |
| Org                    | Site      | Site Name             | Yr   | Mo | Dy | FC | Ecoli      |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 4  | 29 |    | 137        |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 5  | 6  |    | 101        |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 5  | 13 |    | 517        |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 5  | 20 |    | 77         |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 5  | 25 |    | 114        |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 6  | 4  |    | 1986       |
| CHS                    | 3160/38.8 | Spring R. @Hwy 37     | 2007 | 6  | 25 |    | 261        |
| <b>Geometric Mean:</b> |           |                       |      |    |    |    | <b>229</b> |

| Org   | Site      | Site Name                 | Yr   | Mo                     | Dy | FC  | Ecoli      |
|-------|-----------|---------------------------|------|------------------------|----|-----|------------|
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 4                      | 29 |     | 117        |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 6  |     | 130        |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 13 |     | 613        |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 20 |     | 78         |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 24 |     | 53         |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 25 |     | 156        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 30 |     | 113        |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 5                      | 31 |     | 1120       |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 4  |     | 1120       |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 5  |     | 613        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 13 |     | 1733       |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 19 |     | 128        |
| CHS   | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 25 |     | 248        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 6                      | 26 |     | 548        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 7                      | 2  |     | 921        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 7                      | 10 |     | 228        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 7                      | 17 |     | 96         |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 7                      | 31 |     | 91         |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 8                      | 7  |     | 70         |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 8                      | 14 |     | 36         |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 8                      | 21 |     | 1120       |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 8                      | 29 |     | 130        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 9                      | 5  |     | 248        |
| JCHD  | 3160/33.5 | Spring R. at Forest Mills | 2007 | 9                      | 11 |     | 921        |
|       |           |                           |      | <b>Geometric Mean:</b> |    |     | <b>246</b> |
| Org   | Site      | Site Name                 | Yr   | Mo                     | Dy | FC  | Ecoli      |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2004 | 10                     | 21 |     | 79         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 4                      | 6  | 114 |            |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 4                      | 19 | 86  |            |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 4                      | 19 |     | 91         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 5                      | 4  | 48  |            |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 5                      | 4  |     | 31         |
| CHS   | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 5                      | 21 |     | 125        |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 6                      | 7  | 330 |            |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 6                      | 7  |     | 64         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 6                      | 22 | 800 |            |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 6                      | 22 |     | 93         |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 7                      | 5  |     | 371        |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 7                      | 5  | 76  | 96         |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 7                      | 27 |     | 180        |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 7                      | 27 | 500 | 308        |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 8                      | 9  |     | 70         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 8                      | 9  | 135 | 166        |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 8                      | 24 | 210 | 157        |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 8                      | 24 |     | 62         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 9                      | 6  | 162 | 249        |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 9                      | 6  |     | 96         |
| CHS   | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 9                      | 17 |     | 275        |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 9                      | 28 |     | 78         |
| I     | 3160/30.0 | Spring R. ab.Carthage     | 2005 | 9                      | 28 | 162 | 173        |

| Org   | Site      | Site Name             | Yr   | Mo | Dy | FC  | Ecoli |
|-------|-----------|-----------------------|------|----|----|-----|-------|
| I     | 3160/30.0 | Spring R. ab.Carthage | 2005 | 10 | 12 | 108 | 88    |
| MoDNR | 3160/30.0 | Spring R. ab.Carthage | 2005 | 10 | 12 |     | 86    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2005 | 10 | 24 |     | 30    |
| I     | 3160/30.0 | Spring R. ab.Carthage | 2005 | 10 | 27 | 72  | 112   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2005 | 12 | 17 |     | 59    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 1  | 21 |     | 83    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 2  | 18 |     | 20    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 4  | 15 |     | 33    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 4  | 22 |     | 57    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 4  | 29 |     | 1120  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 5  | 7  |     | 1203  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 5  | 12 |     | 2420  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 5  | 19 |     | 167   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 5  | 27 |     | 219   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 6  | 3  |     | 548   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 6  | 12 |     | 80    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 6  | 18 |     | 921   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 6  | 24 |     | 91    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 7  | 1  |     | 47    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 7  | 15 |     | 56    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 7  | 24 |     | 210   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 7  | 30 |     | 291   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 8  | 5  |     | 138   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 8  | 12 |     | 411   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 8  | 20 |     | 365   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 8  | 27 |     | 1203  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 9  | 3  |     | 179   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 9  | 9  |     | 152   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 9  | 17 |     | 1414  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 9  | 24 |     | 291   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 9  | 30 |     | 233   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 10 | 6  |     | 129   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 10 | 13 |     | 113   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 10 | 20 |     | 134   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 10 | 27 |     | 93    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 10 | 31 |     | 141   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 11 | 5  |     | 397   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 11 | 12 |     | 80    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 11 | 19 |     | 50    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 11 | 26 |     | 30    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 12 | 10 |     | 192   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 12 | 17 |     | 88    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 12 | 23 |     | 1553  |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2006 | 12 | 30 |     | 161   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 1  | 6  |     | 131   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 1  | 28 |     | 249   |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 2  | 3  |     | 75    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 2  | 11 |     | 50    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 2  | 24 |     | 62    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 3  | 3  |     | 63    |
| CHS   | 3160/30.0 | Spring R. ab.Carthage | 2007 | 3  | 11 |     | 165   |

| Org  | Site      | Site Name                            | Yr   | Mo | Dy | FC                     | Ecoli      |
|------|-----------|--------------------------------------|------|----|----|------------------------|------------|
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 3  | 18 |                        | 32         |
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 3  | 25 |                        | 1046       |
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 4  | 1  |                        | 261        |
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 4  | 8  |                        | 77         |
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 4  | 15 |                        | 4840       |
| CHS  | 3160/30.0 | Spring R. ab.Carthage                | 2007 | 4  | 22 |                        | 65         |
|      |           |                                      |      |    |    | <b>Geometric Mean:</b> | <b>154</b> |
|      |           |                                      |      |    |    |                        | <b>152</b> |
| Org  | Site      | Site Name                            | Yr   | Mo | Dy | FC                     | Ecoli      |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 5  | 24 |                        | 19         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 5  | 30 |                        | 148        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 6  | 5  |                        | 365        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 6  | 13 |                        | 4839       |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 6  | 19 |                        | 162        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 6  | 26 |                        | 225        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 7  | 2  |                        | 1300       |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 7  | 10 |                        | 116        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 7  | 17 |                        | 96         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 7  | 31 |                        | 88         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 8  | 7  |                        | 42         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 8  | 14 |                        | 46         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 8  | 21 |                        | 4839       |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 8  | 29 |                        | 82         |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 9  | 5  |                        | 411        |
| JCHD | 3160/29.3 | Spring R. @ Easterly Dr (Old Hwy 96) | 2007 | 9  | 11 |                        | 517        |
|      |           |                                      |      |    |    | <b>Geometric Mean:</b> | <b>223</b> |
| Org  | Site      | Site Name                            | Yr   | Mo | Dy | FC                     | Ecoli      |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2005 | 5  | 21 |                        | 73         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2005 | 9  | 17 |                        | 488        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2005 | 10 | 24 |                        | 51         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2005 | 12 | 17 |                        | 11         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 1  | 21 |                        | 7          |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 2  | 18 |                        | 3          |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 4  | 15 |                        | 50         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 4  | 22 |                        | 9          |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 4  | 29 |                        | 238        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 5  | 7  |                        | 276        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 5  | 12 |                        | 2420       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 5  | 19 |                        | 192        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 5  | 27 |                        | 148        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 6  | 3  |                        | 387        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 6  | 12 |                        | 69         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 6  | 18 |                        | 1120       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 6  | 24 |                        | 118        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 7  | 1  |                        | 59         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 7  | 8  |                        | 58         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 7  | 15 |                        | 198        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 7  | 24 |                        | 40         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 7  | 30 |                        | 196        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 8  | 5  |                        | 34         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 8  | 12 |                        | 178        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                  | 2006 | 8  | 20 |                        | 82         |

| Org  | Site      | Site Name                               | Yr   | Mo | Dy | FC                     | Ecoli      |
|------|-----------|---|------|----|----|------------------------|------------|
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 8  | 27 |                        | 291        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 9  | 3  |                        | 51         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 9  | 9  |                        | 16         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 9  | 17 |                        | 866        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 9  | 24 |                        | 172        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 9  | 30 |                        | 1046       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 10 | 6  |                        | 165        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 10 | 13 |                        | 91         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 10 | 20 |                        | 111        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 10 | 27 |                        | 122        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 10 | 31 |                        | 64         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 11 | 5  |                        | 91         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 11 | 12 |                        | 123        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 11 | 15 |                        | 111        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 11 | 19 |                        | 59         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 11 | 26 |                        | 70         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 12 | 10 |                        | 260        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 12 | 17 |                        | 91         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 12 | 23 |                        | 1986       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2006 | 12 | 30 |                        | 147        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 1  | 6  |                        | 55         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 1  | 28 |                        | 313        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 2  | 3  |                        | 71         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 2  | 11 |                        | 45         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 2  | 17 |                        | 138        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 2  | 24 |                        | 39         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 3  | 3  |                        | 43         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 3  | 11 |                        | 79         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 3  | 18 |                        | 73         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 3  | 25 |                        | 816        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 4  | 1  |                        | 236        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 4  | 8  |                        | 124        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 4  | 15 |                        | 4840       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 4  | 22 |                        | 76         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 4  | 29 |                        | 135        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 5  | 6  |                        | 142        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 5  | 13 |                        | 649        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 5  | 20 |                        | 86         |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 5  | 25 |                        | 138        |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 5  | 31 |                        | 1203       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 6  | 4  |                        | 1203       |
| CHS  | 3160/27.9 | Spring R. @ Hwy. 96                     | 2007 | 6  | 25 |                        | 248        |
|      |           |   |      |    |    | <b>Geometric Mean:</b> | <b>130</b> |
| Org  | Site      | Site Name                               | Yr   | Mo | Dy | FC                     | Ecoli      |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 5  | 24 |                        | 45         |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 5  | 30 |                        | 131        |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 6  | 5  |                        | 291        |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 6  | 13 |                        | 1986       |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 6  | 19 |                        | 172        |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 6  | 26 |                        | 328        |
| JCHD | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 7  | 2  |                        | 1203       |

| Org   | Site      | Site Name                               | Yr   | Mo | Dy | FC                     | Ecoli      |
|-------|-----------|---|------|----|----|------------------------|------------|
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 7  | 10 |                        | 236        |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 7  | 17 |                        | 78         |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 7  | 31 |                        | 89         |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 8  | 7  |                        | 70         |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 8  | 14 |                        | 31         |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 8  | 21 |                        | 4839       |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 8  | 29 |                        | 84         |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 9  | 5  |                        | 435        |
| JCHD  | 3160/27.1 | Spring R. @ Civil War Rd east of Hwy 71 | 2007 | 9  | 11 |                        | 517        |
|       |           |   |      |    |    | <b>Geometric Mean:</b> | <b>233</b> |
| Org   | Site      | Site Name                               | Yr   | Mo | Dy | FC                     | Ecoli      |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2004 | 10 | 21 |                        | 270        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 4  | 6  | 300                    |            |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 4  | 19 |                        | 82         |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 4  | 19 | 95                     |            |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 5  | 4  | 105                    |            |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 5  | 4  |                        | 77         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 5  | 21 |                        | 46         |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 6  | 7  |                        | 180        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 6  | 7  | 396                    |            |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 6  | 22 | 300                    |            |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 6  | 22 |                        | 59         |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 7  | 5  | 123                    | 91         |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 7  | 5  |                        | 170        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 7  | 27 |                        | 280        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 7  | 27 | 1410                   | 276        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 8  | 9  |                        | 89         |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 8  | 9  | 250                    | 159        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 8  | 24 | 390                    | 147        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 8  | 24 |                        | 77         |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 9  | 6  | 2100                   | 411        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 9  | 6  |                        | 236        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 9  | 17 |                        | 435        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 9  | 28 |                        | 490        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 9  | 28 | 766                    | 461        |
| MoDNR | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 10 | 12 |                        | 200        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 10 | 12 | 300                    | 236        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 10 | 24 |                        | 130        |
| I     | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 10 | 27 | 480                    | 461        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2005 | 12 | 17 |                        | 58         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 1  | 21 |                        | 20         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 2  | 18 |                        | 124        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 4  | 15 |                        | 387        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 4  | 22 |                        | 36         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 4  | 29 |                        | 613        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 5  | 7  |                        | 308        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 5  | 12 |                        | 2420       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 5  | 19 |                        | 167        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 5  | 27 |                        | 488        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 6  | 3  |                        | 435        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP       | 2006 | 6  | 12 |                        | 107        |

| Org   | Site      | Site Name                          | Yr                     | Mo | Dy | FC         | Ecoli      |
|-------|-----------|------------------------------------|------------------------|----|----|------------|------------|
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 6  | 18 |            | 921        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 6  | 24 |            | 119        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 7  | 1  |            | 51         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 7  | 15 |            | 114        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 7  | 24 |            | 66         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 7  | 30 |            | 248        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 8  | 5  |            | 261        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 8  | 12 |            | 328        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 8  | 20 |            | 166        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 8  | 27 |            | 2420       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 9  | 3  |            | 56         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 9  | 9  |            | 114        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 9  | 17 |            | 2420       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 9  | 24 |            | 214        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 9  | 30 |            | 115        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 10 | 6  |            | 345        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 10 | 13 |            | 153        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 10 | 20 |            | 122        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 10 | 27 |            | 2420       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 10 | 31 |            | 89         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 11 | 5  |            | 488        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 11 | 12 |            | 63         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 11 | 19 |            | 59         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 11 | 26 |            | 37         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 12 | 10 |            | 228        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 12 | 17 |            | 98         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 12 | 23 |            | 1553       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2006                   | 12 | 30 |            | 200        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 1  | 6  |            | 81         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 1  | 28 |            | 461        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 2  | 3  |            | 50         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 2  | 11 |            | 39         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 2  | 17 |            | 107        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 2  | 24 |            | 46         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 3  | 3  |            | 55         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 3  | 11 |            | 158        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 3  | 18 |            | 38         |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 3  | 25 |            | 816        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 4  | 1  |            | 156        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 4  | 8  |            | 122        |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 4  | 15 |            | 4840       |
| CHS   | 3160/26.1 | Spring R. 0.9 mi.ab.Carthage WWTP  | 2007                   | 4  | 22 |            | 91         |
|       |           |                                    | <b>Geometric Mean:</b> |    |    | <b>354</b> | <b>182</b> |
| Org   | Site      | Site Name                          | Yr                     | Mo | Dy | FC         | Ecoli      |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2004                   | 10 | 21 |            | 74         |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 4  | 6  | 162        |            |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 4  | 19 | 124        |            |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 4  | 19 |            | 100        |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 5  | 4  | 67         |            |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 5  | 4  |            | 82         |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005                   | 5  | 21 |            | 89         |

| Org   | Site      | Site Name                          | Yr   | Mo | Dy | FC    | Ecoli |
|-------|-----------|------------------------------------|------|----|----|-------|-------|
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 6  | 7  |       | 110   |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 6  | 7  | 230   |       |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 6  | 22 | 857   |       |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 6  | 22 |       | 71    |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 7  | 5  | 123   | 105   |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 7  | 5  |       | 68    |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 7  | 27 | 28100 | 2420  |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 7  | 27 |       | 2400  |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 8  | 9  | 350   | 162   |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 8  | 9  |       | 80    |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 8  | 24 |       | 78    |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 8  | 24 | 210   | 142   |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 9  | 6  |       | 132   |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 9  | 6  | 189   | 326   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 9  | 17 |       | 488   |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 9  | 28 | 210   | 214   |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 9  | 28 |       | 120   |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 10 | 12 | 260   | 142   |
| MoDNR | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 10 | 12 |       | 93    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 10 | 24 |       | 67    |
| I     | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 10 | 27 | 117   | 157   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2005 | 12 | 17 |       | 291   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 2  | 18 |       | 4839  |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 4  | 15 |       | 84    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 4  | 22 |       | 51    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 4  | 29 |       | 1120  |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 5  | 7  |       | 548   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 5  | 12 |       | 2420  |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 5  | 19 |       | 219   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 5  | 27 |       | 770   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 6  | 3  |       | 461   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 6  | 12 |       | 56    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 6  | 18 |       | 1986  |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 6  | 24 |       | 102   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 7  | 1  |       | 50    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 7  | 15 |       | 184   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 7  | 24 |       | 50    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 7  | 30 |       | 214   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 8  | 5  |       | 158   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 8  | 12 |       | 488   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 8  | 20 |       | 88    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 8  | 27 |       | 2429  |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 9  | 3  |       | 104   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 9  | 9  |       | 96    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 9  | 17 |       | 328   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 9  | 24 |       | 261   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 9  | 30 |       | 166   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 10 | 6  |       | 205   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 10 | 13 |       | 138   |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 10 | 20 |       | 36    |
| CHS   | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 10 | 27 |       | 548   |

| Org                    | Site      | Site Name                          | Yr   | Mo | Dy | FC         | Ecoli      |
|------------------------|-----------|------------------------------------|------|----|----|------------|------------|
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 10 | 31 |            | 134        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 11 | 5  |            | 2420       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 11 | 12 |            | 1414       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 11 | 19 |            | 1203       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 11 | 26 |            | 166        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 12 | 10 |            | 727        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 12 | 17 |            | 201        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 12 | 23 |            | 548        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2006 | 12 | 30 |            | 1733       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 1  | 6  |            | 248        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 1  | 28 |            | 411        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 2  | 3  |            | 81         |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 2  | 11 |            | 72         |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 2  | 24 |            | 78         |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 3  | 3  |            | 61         |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 3  | 11 |            | 117        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 3  | 18 |            | 548        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 3  | 25 |            | 1120       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 4  | 1  |            | 131        |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 4  | 8  |            | 65         |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 4  | 15 |            | 4840       |
| CHS                    | 3160/23.4 | Spring R. 1.8 mi.bl. Carthage WWTP | 2007 | 4  | 22 |            | 108        |
| <b>Geometric Mean:</b> |           |                                    |      |    |    | <b>285</b> | <b>231</b> |
| Org                    | Site      | Site Name                          | Yr   | Mo | Dy | FC         | Ecoli      |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 4  | 29 |            | 122        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 5  | 6  |            | 156        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 5  | 13 |            | 2420       |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 5  | 20 |            | 114        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 5  | 25 |            | 158        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 5  | 31 |            | 687        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 6  | 7  |            | 194        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 6  | 16 |            | 579        |
| CHS                    | 3160/21.5 | Spring R. 4 mi. NW of Carthage     | 2007 | 6  | 21 |            | 178        |
| <b>Geometric Mean:</b> |           |                                    |      |    |    | <b>282</b> | <b>282</b> |
| Org                    | Site      | Site Name                          | Yr   | Mo | Dy | FC         | Ecoli      |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 5  | 24 |            | 127        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 5  | 30 |            | 135        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 6  | 5  |            | 345        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 6  | 14 |            | 157        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 6  | 19 |            | 240        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 6  | 26 |            | 102        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 7  | 2  |            | 980        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 7  | 10 |            | 816        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 7  | 17 |            | 93         |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 7  | 31 |            | 117        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 8  | 7  |            | 91         |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 8  | 14 |            | 81         |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 8  | 21 |            | 4839       |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 8  | 28 |            | 152        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 9  | 5  |            | 172        |
| JCHD                   | 3160/16.4 | Spring R. @ 6th St nr Hwy DD       | 2007 | 9  | 11 |            | 613        |
| <b>Geometric Mean:</b> |           |                                    |      |    |    | <b>239</b> | <b>239</b> |

| Org                    | Site      | Site Name                       | Yr   | Mo | Dy | FC  | Ecoli           |
|------------------------|-----------|---------------------------------|------|----|----|-----|-----------------|
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 4  | 29 |     | 186             |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 5  | 6  |     | 152             |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 5  | 13 |     | 4840            |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 5  | 20 |     | 96              |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 5  | 25 |     | 228             |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 5  | 31 |     | 4840            |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 6  | 7  |     | 387             |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 6  | 16 |     | 411             |
| CHS                    | 3160/16.0 | Spring R. @Quaker Rd.           | 2007 | 6  | 21 |     | 125             |
| <b>Geometric Mean:</b> |           |                                 |      |    |    |     | <b>404</b>      |
| Org                    | Site      | Site Name                       | Yr   | Mo | Dy | FC  | Ecoli           |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 4  | 29 |     | 142             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 5  | 6  |     | 152             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 5  | 13 |     | 4840            |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 5  | 20 |     | 125             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 5  | 25 |     | 196             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 5  | 31 |     | 1986            |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 6  | 7  |     | 210             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 6  | 16 |     | 921             |
| CHS                    | 3160/11.8 | Spring R. @ Hwy 43              | 2007 | 6  | 21 |     | 148             |
| <b>Geometric Mean:</b> |           |                                 |      |    |    |     | <b>375</b>      |
| Org                    | Site      | Site Name                       | Yr   | Mo | Dy | FC  | Ecoli           |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 5  | 24 |     | 67              |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 5  | 30 |     | 326             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 6  | 5  |     | 345             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 6  | 14 |     | 161             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 6  | 19 |     | 192             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 6  | 26 |     | 649             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 7  | 2  |     | 687             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 7  | 10 |     | 167             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 7  | 17 |     | 73              |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 7  | 31 |     | 167             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 8  | 7  |     | 76              |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 8  | 14 |     | 71              |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 8  | 21 |     | 4839            |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 8  | 28 |     | 285             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 9  | 5  |     | 122             |
| JCHD                   | 3160/7.6  | Spring R. upstream CR 270 .1 mi | 2007 | 9  | 11 |     | 345             |
| <b>Geometric Mean:</b> |           |                                 |      |    |    |     | <b>231</b>      |
| Org                    | Site      | Site Name                       | Yr   | Mo | Dy | FC  | Ecoli           |
| KDHE                   | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2003 | 3  | 4  | 10  |                 |
| KDHE                   | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2003 | 5  | 6  | 490 |                 |
| KDHE                   | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2003 | 11 | 4  | 60  |                 |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 4  | 29 |     | 285             |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 5  | 6  |     | 124             |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 5  | 13 |     | 4840            |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 5  | 20 |     | 56              |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 5  | 25 |     | 161             |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 5  | 31 |     | 1733            |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 6  | 7  |     | 291             |
| Org                    | Site      | Site Name                       | Yr   | Mo | Dy | FC  | Ecoli           |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 6  | 16 |     | 365             |
| CHS                    | 3160/5.3  | Spring R. 2 mi. E. of Waco      | 2007 | 6  | 21 |     | 137             |
| <b>Geometric Mean:</b> |           |                                 |      |    |    |     | <b>66</b>       |
| <b>Geometric Mean:</b> |           |                                 |      |    |    |     | <b>323.5796</b> |

| Org                    | Site     | Site Name                     | Yr   | Mo | Dy | FC | Ecoli      |
|------------------------|----------|-------------------------------|------|----|----|----|------------|
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 5  | 24 |    | 70         |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 5  | 30 |    | 210        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 6  | 5  |    | 261        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 6  | 14 |    | 152        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 6  | 19 |    | 178        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 6  | 26 |    | 96         |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 7  | 2  |    | 649        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 7  | 10 |    | 157        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 7  | 17 |    | 79         |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 7  | 31 |    | 135        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 8  | 7  |    | 39         |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 8  | 14 |    | 41         |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 8  | 21 |    | 4839       |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 8  | 28 |    | 159        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 9  | 5  |    | 173        |
| JCHD                   | 3160/2.0 | Spring R. 2 mi. South of Waco | 2007 | 9  | 11 |    | 225        |
| <b>Geometric Mean:</b> |          |                               |      |    |    |    | <b>170</b> |
| Org                    | Site     | Site Name                     | Yr   | Mo | Dy | FC | Ecoli      |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 4  | 29 |    | 411        |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 5  | 6  |    | 166        |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 5  | 13 |    | 1733       |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 5  | 20 |    | 75         |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 5  | 25 |    | 261        |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 5  | 31 |    | 1986       |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 6  | 7  |    | 205        |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 6  | 17 |    | 387        |
| CHS                    | 3160/1.0 | Spring R. 3 mi. S. of Waco    | 2007 | 6  | 21 |    | 162        |
| <b>Geometric Mean:</b> |          |                               |      |    |    |    | <b>339</b> |

The water quality standard for E. coli in Class A whole body contact recreational waters for protection of human health is 126 col/100 mL. The water quality standard for fecal coliform bacteria is 200 col/100 mL in Class A recreational waters. These standards are for the geometric mean of all bacterial counts taken during the recreational season, April 1 through Oct. 31. Since the geometric mean of the E. coli results at all sites is greater than the Class A recreational standard of 126 col/100 mL, this entire segment of the Spring River is judged to be **impaired** by bacteria.