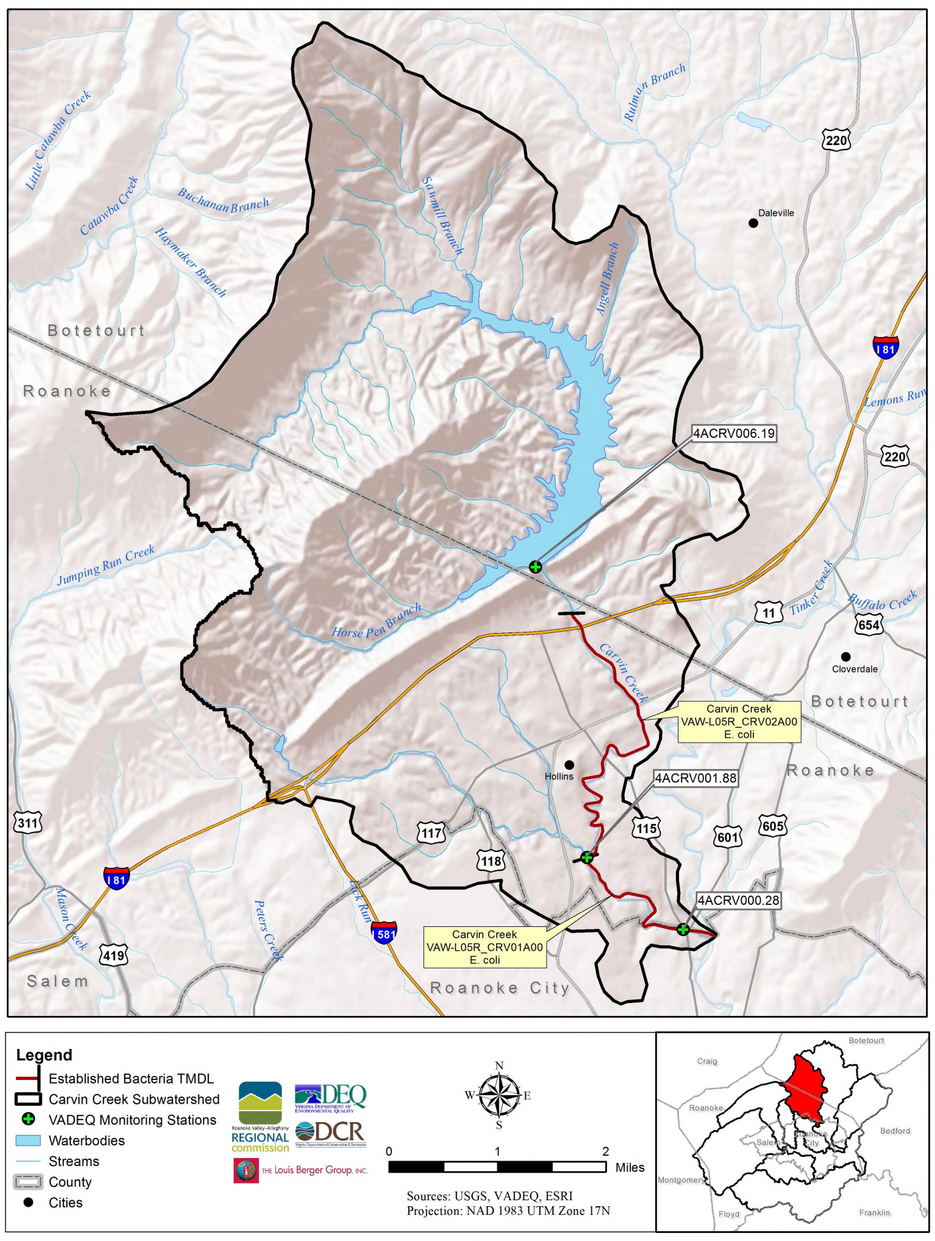
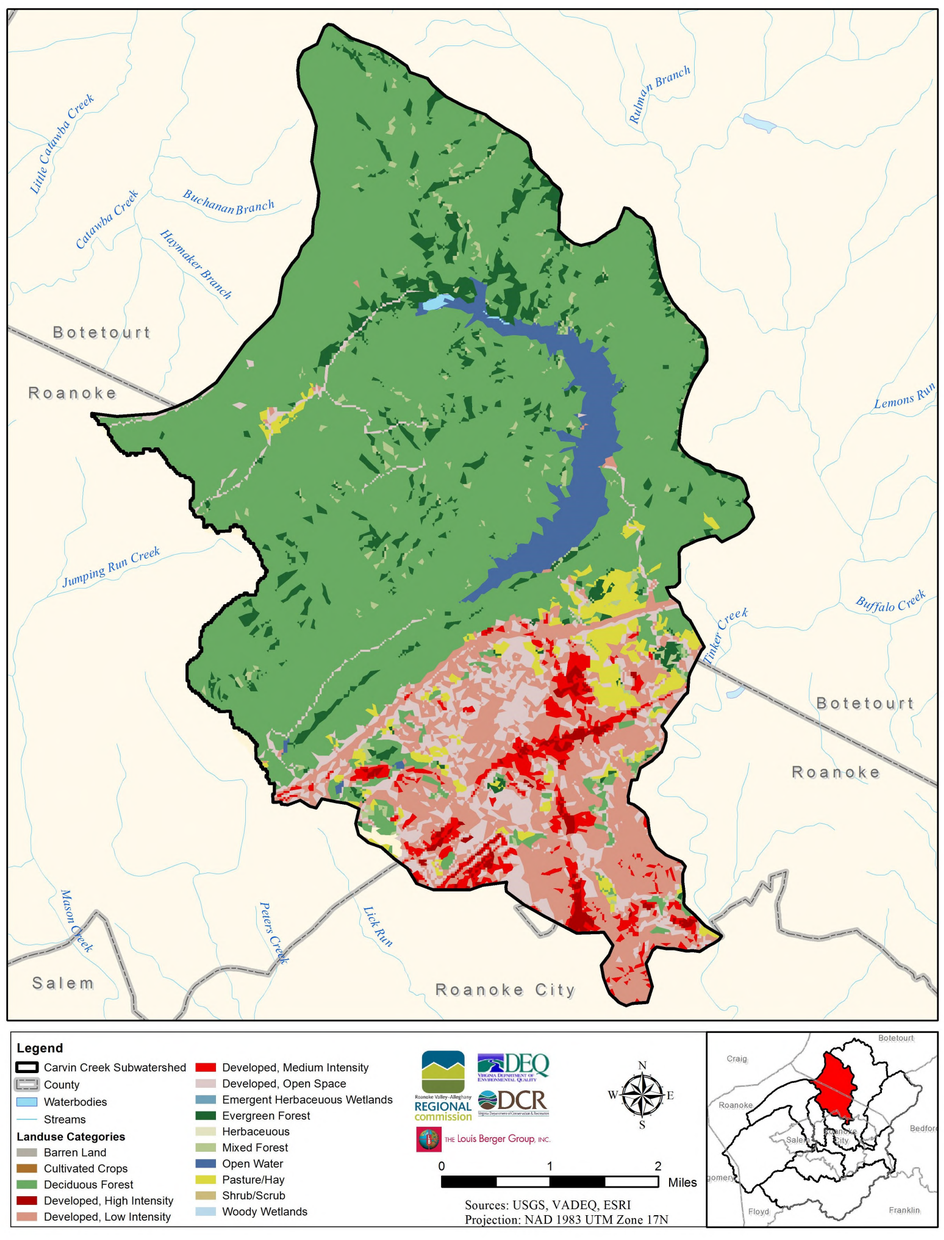
# Carvin Creek Subwatershed




## Impairment Summary

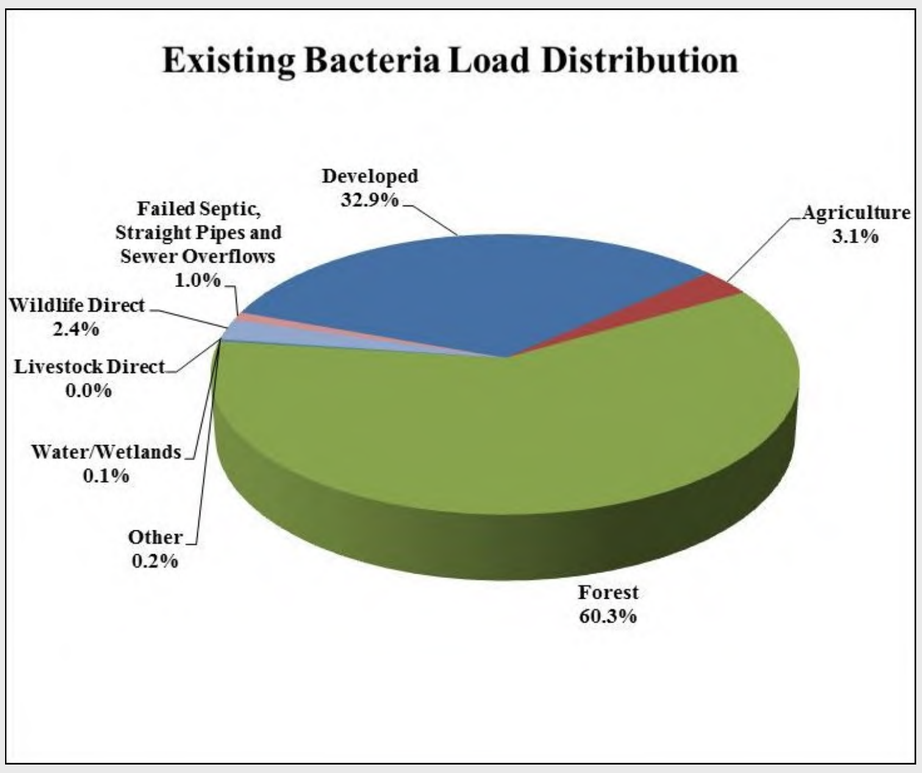
| Assessment Unit | Stream Name | Length (miles) | Boundaries | Cause |
|---|---|---|---|---|
| VAW-L05R_CRV01A00 | Carvin Creek | 1.79 | Carvin Creek mainstem from its confluence with Tinker Creek up-stream to the mouth of Deer Branch. | Escherichia coli |
| VAW-L05R_CRV02A00 | Carvin Creek | 3.59 | Carvin Creek mainstem from the mouth of Deer Branch upstream to an unnamed tributary upstream of I -81. | Escherichia coli |

## Land Use Distribution (NLCD 2006)

| Land Use Category | Area | |
|---|---|---|
| | Acres | Percent |
| Developed | 4228.4 | 23.3 |
| Agriculture | 541.0 | 3.0 |
| Forest | 12,641.3 | 69.6 |
| Water/Wetlands | 717.4 | 3.9 |
| Other | 45.5 | 0.3 |
| **Total** | **18,173.7** | **100.0** |

## Existing and Allocated Bacteria Loads

| Land Use/Source | Total Annual *E. coli* Loads (billion coliform forming units/year) | | Percent Reduction (%) |
|---|---|---|---|
| | Existing Load | Allocation Load | |
| **Land Based Non-point** | | | |
| Developed | 1,313,364 | 129,366 | 90.2% |
| Agriculture | 126,393 | 12,450 | 90.2% |
| Forest | 2,403,783 | 356,962 | 85.2% |
| Water/Wetlands | 2,773 | 412 | 85.2% |
| Other | 5,260 | 518 | 90.2% |
| **Direct Non-point** | | | |
| Livestock Direct | 151 | 0 | 100.0% |
| Wildlife Direct | 126,222 | 31,555 | 75.0% |
| Failed Septic, Straight Pipes and Sewer Overflows | 38,400 | 0 | 100.0% |
| **Point Source** | - | - | - |
| **Total** | **4,016,346** | **531,263** | **86.8%** |




## Existing Best Management Practices
## Agricultural and Stormwater

| Agricultural Best Management Practice | Count | Area Treated | Streamlength Pro-tected (ft) |
|---|---|---|---|
| No Known Agricultural Best Management Practices | | | |

| Stormwater Best Management Practice | Count | Reported Area Treated* (acres) |
|---|---|---|
| Detention Basin | 66 | 447.1 |
| Extended Detention Basin | 7 | 33.1 |
| Infiltration | 5 | No Data |
| Manufactured Unit | 21 | 1.9 |
| Sediment Forebay | 1 | No Data |
| Underground Detention Basin | 14 | No Data |
| Wet Pond | 2 | No Data |

*Not all Best Management Practices reported area treated

**The municipalities are in the process of creating Best Management Practices inventories, so not all Best Management Practices present in the watershed may be reported.**

## Potential Implementation Actions to Reduce Bacteria

- **Existing Best Management Practice Retrofits**
- **Low Impact Development Stormwater Controls**
- **Riparian Buffer Creation/Expansion**
- **Septic System Repair/Replacement**
- **Pet Waste Disposal and Education Programs**