Maintaining Healthy Watersheds in Clarke County, Virginia



Alison Teetor Natural Resource Planner

Overview

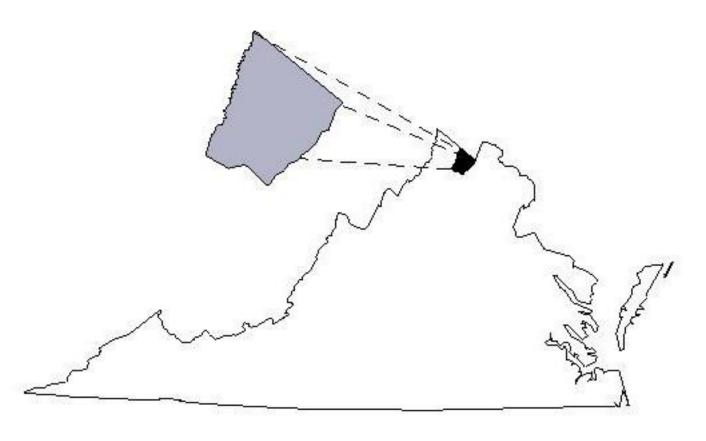
County Demographics

Planning and Zoning Policies

Land Conservation

 Water Quality Improvement Efforts

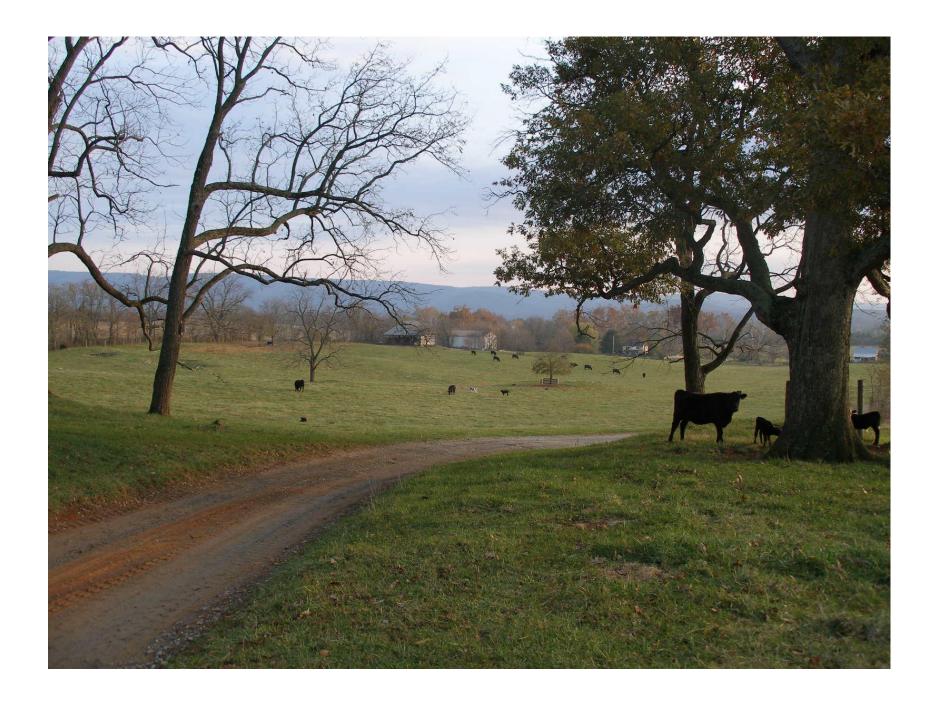
Clarke County, Virginia Demographics

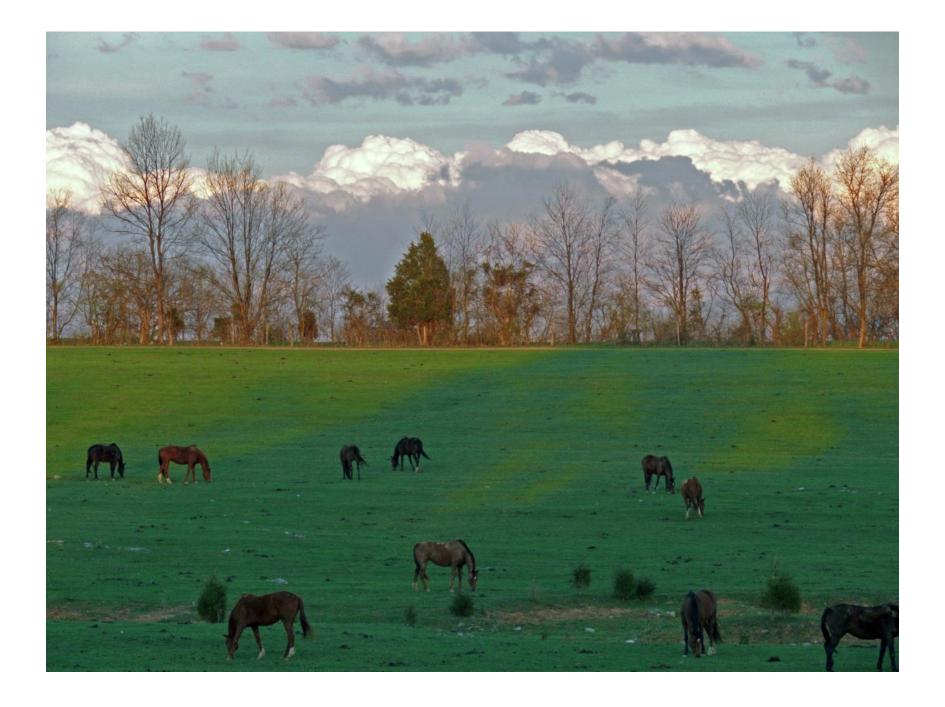


174 Square miles or 114,000 acres Population – 14,600 County Seat - Berryville





















Before 1980

5 acre subdivisions (20 houses per 100 acres) approved administratively

One acre lots approved with review by the Planning Commission and Board of Supervisors

Population growth was 23% (1970s average)

Most of the growth was in the rural areas of the County

Goal

Preserve Agriculture and Open Space

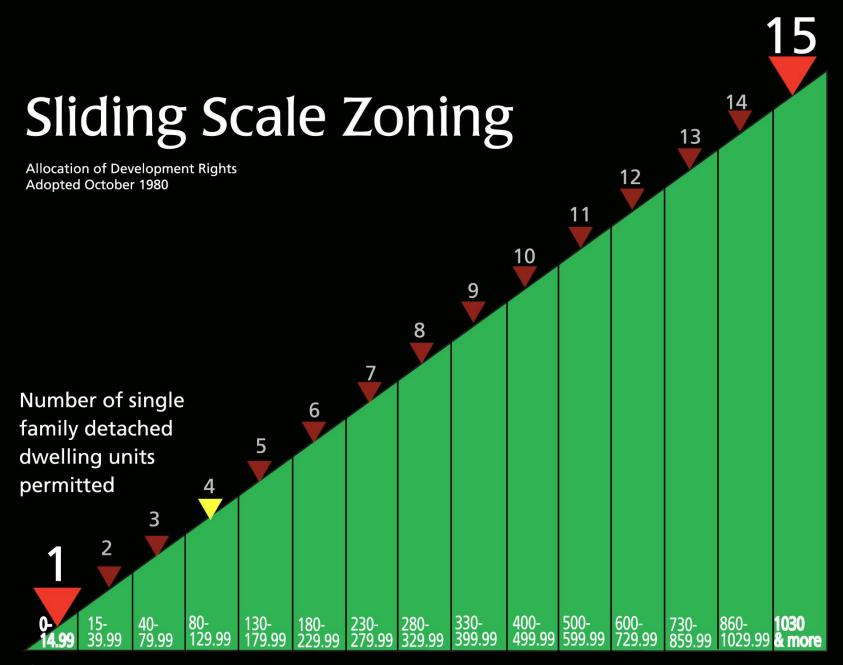
"5 to 10 acres is too large to mow and too small to farm"

Goal

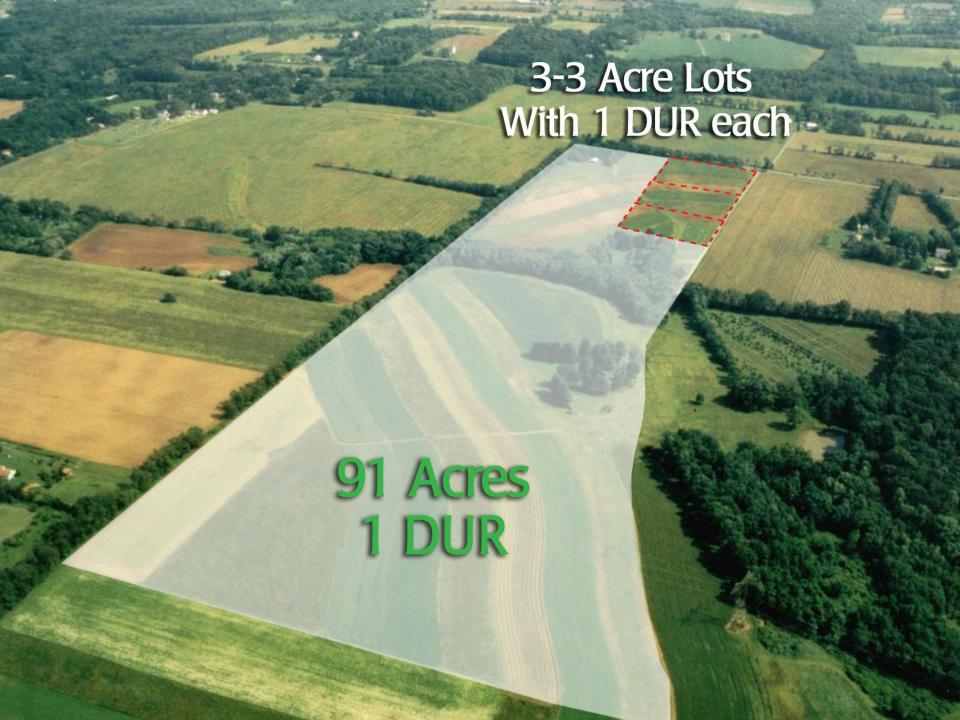
Concentrate growth

•in a walkable area

•close to services (schools, shopping, public utilities, etc.)



Size of Tract (Acres)



Other Supporting Actions

Land Use Taxation (still get \$1 in revenue for every 20¢ in cost)

Agricultural Districts (33,050 acres or 29% of the County)

Scenic Byways (55 miles)

Scenic River designation on the Shenandoah (22 miles)

National Register Historic Districts

(33,750 acres or 30% of the County)

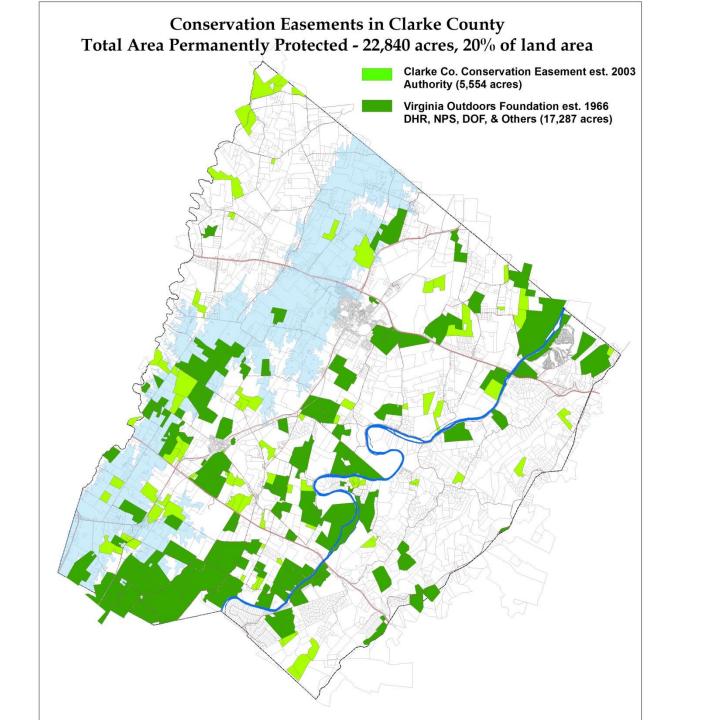
Clarke County's strategy will not work if
Agriculture and Open Space are not deemed to
be valuable

2002

Clarke County establishes a Conservation Easement Authority

Why?

- To purchase important easements
- •To accept donated easements that might not be accepted by groups like VOF
- •To access matching funds offered by State and Federal programs



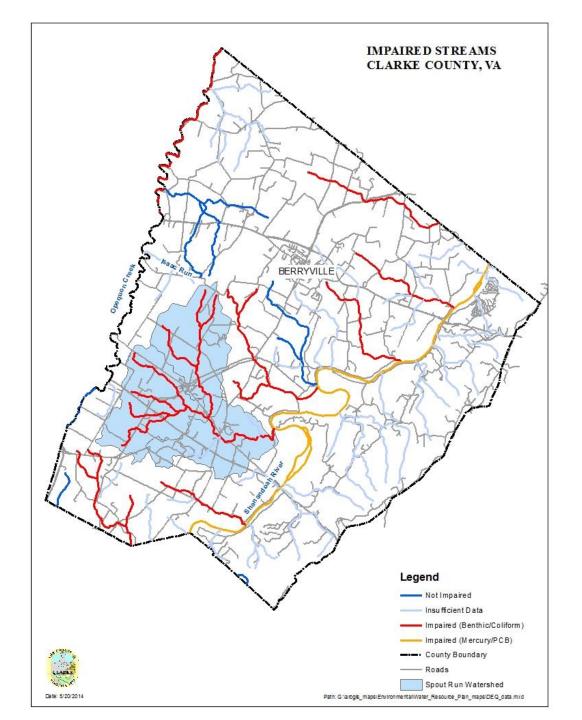
What the County pays out for every tax dollar it receives











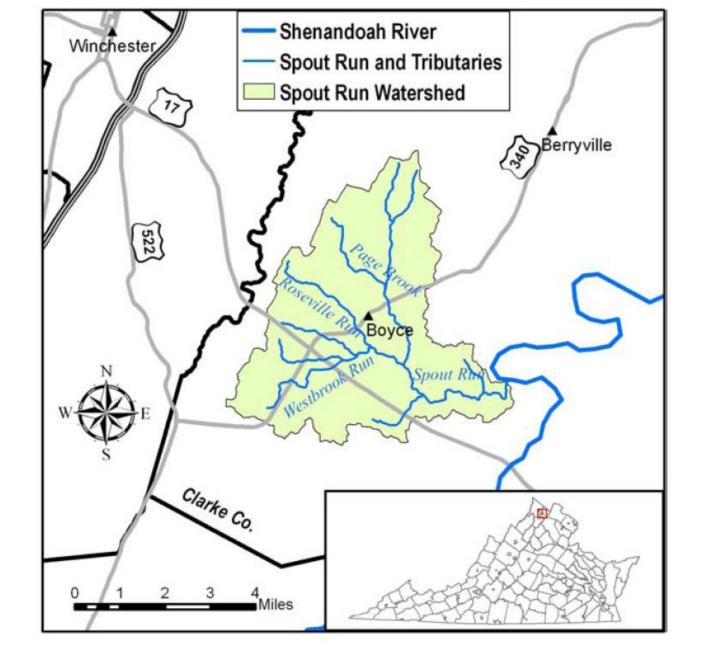


Figure 2-1. Location of Spout Run Watershed.



Total Maximum Daily Load Development to Address Bacteria and Benthic Impairments in the Spout Run Watershed, Clarke County, Virginia



Prepared by: Dr. Robert Brent; James Madison University

Prepared for: Virginia Department of Environmental Quality

February 2010





uality Improvement

SPOUT RUN



A plan to reduce bacteria and sediment in the water

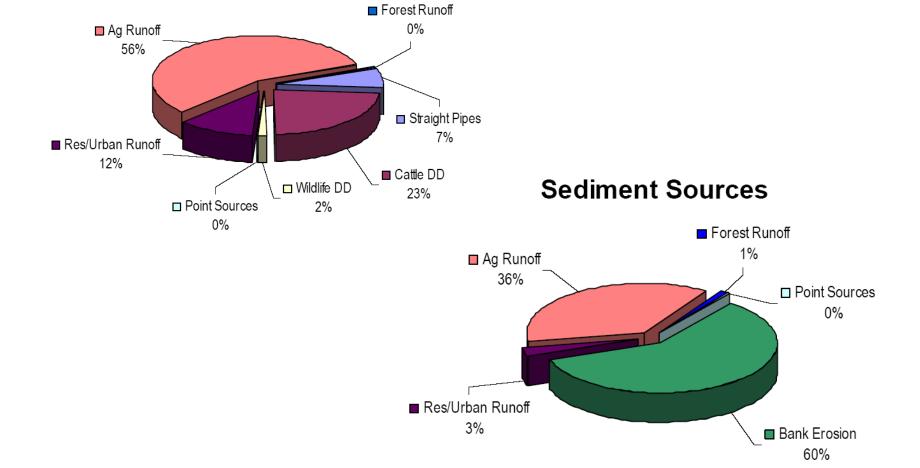
October 5, 2012

Prepared by
The Virginia Department of Conservation and Recreation

In Cooperation with
Local Stakeholders
The Virginia Department of Environmental Quality
Department of Biological Systems Engineering,
Virginia Tech Center for Watershed Studies

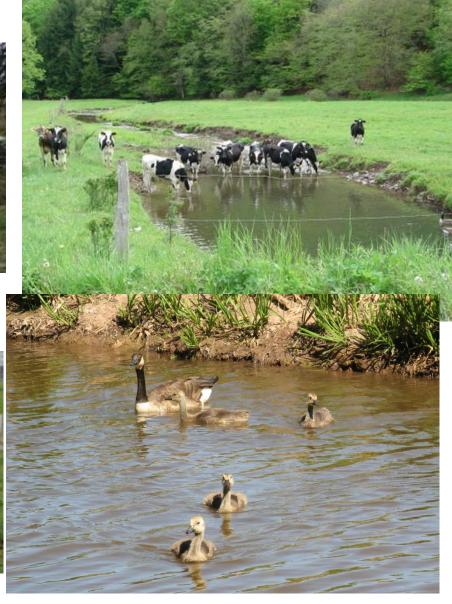
Sources of Impairment

Bacteria Sources



Causes of Impairment





Causes of Impairment



Implementation Plan





Implementation Plan



CHALLENGES





Grants

National Fish and Wildlife Foundation \$141,600 grant award \$87,800 non-fed match 319 Water Quality \$292,666 grant award \$216,718 non-fed match



C-Spout Run: Restoring a Shenandoah Valley Spring Creek

Clarke County

Trout Unlimited

Soil & Water Conservation District

Friends of Shenandoah River

Piedmont Environmental Council

Regional Commission

The Downstream Project





Questions

Alison Teetor
Natural Resource Planner
Clarke County, VA
540-336-5567
ateetor@clarkecounty.gov