



SAVING THE LAST GREAT PLACES ON EARTH

A decorative banner consisting of a series of vertical rectangular blocks in various shades of blue, teal, and black, arranged in a slightly wavy pattern.

# The Duck River

*A common thread for change in four  
Middle Tennessee counties*

Leslie Colley

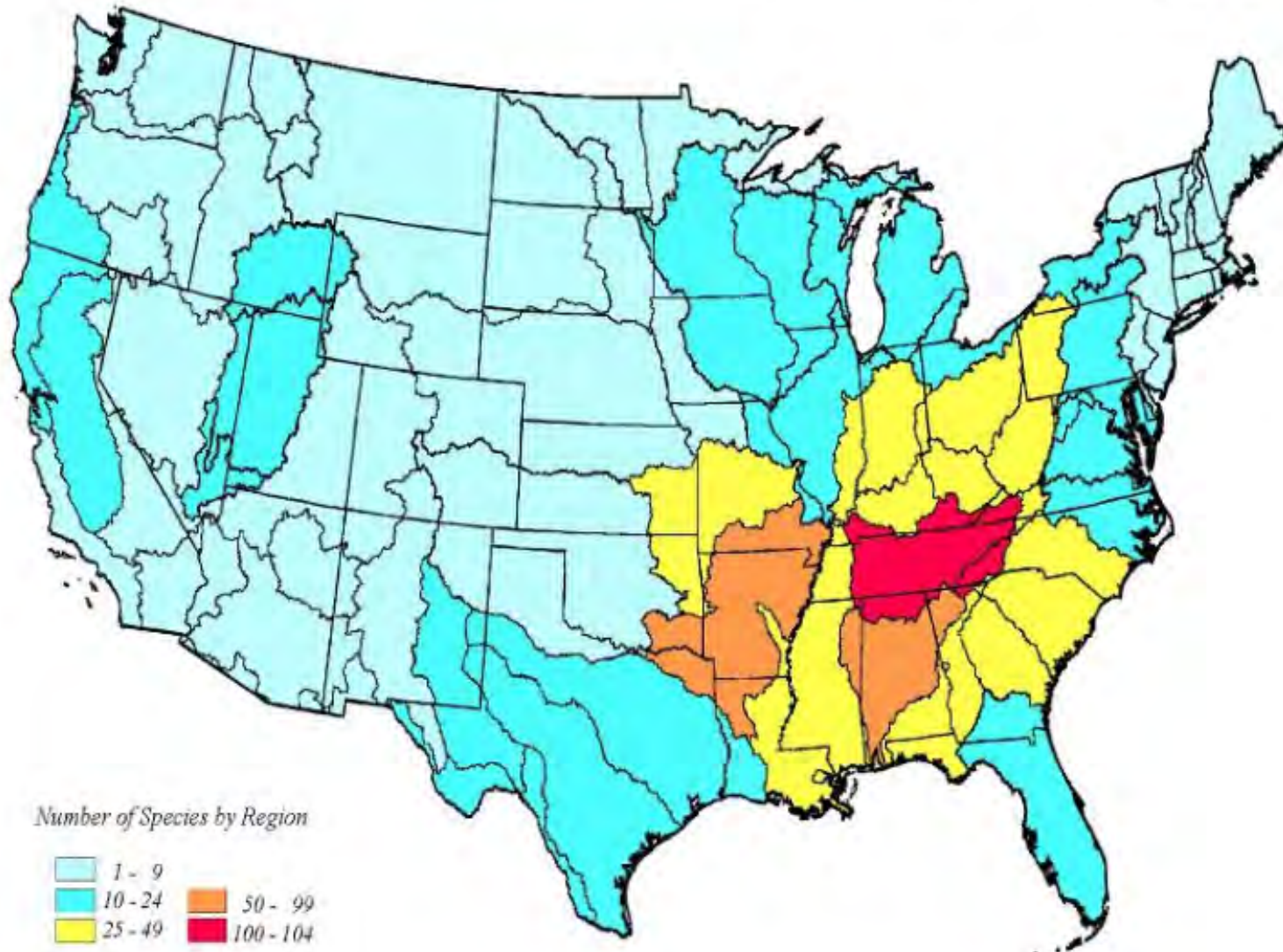
*Duck River Program Director*



SAVING THE LAST GREAT PLACES ON EARTH

The mission of The Nature Conservancy is to conserve the diversity of plants, animals and natural communities that represent life on earth by protecting the lands and waters they need to survive.

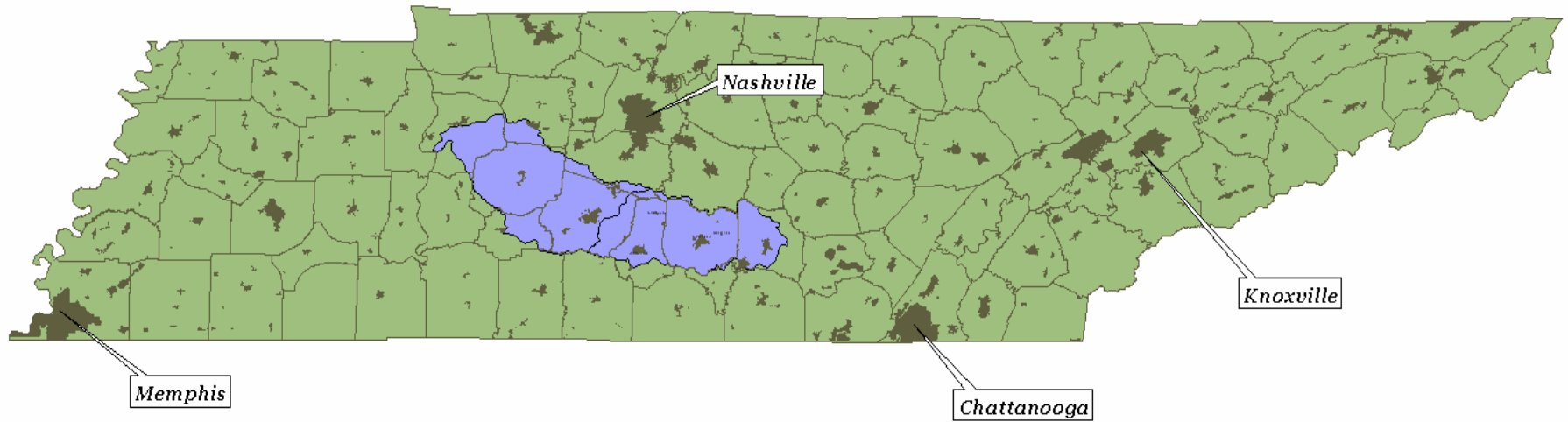
## Regional Concentrations of At-Risk Fish and Mussel Species



Number of Species by Region

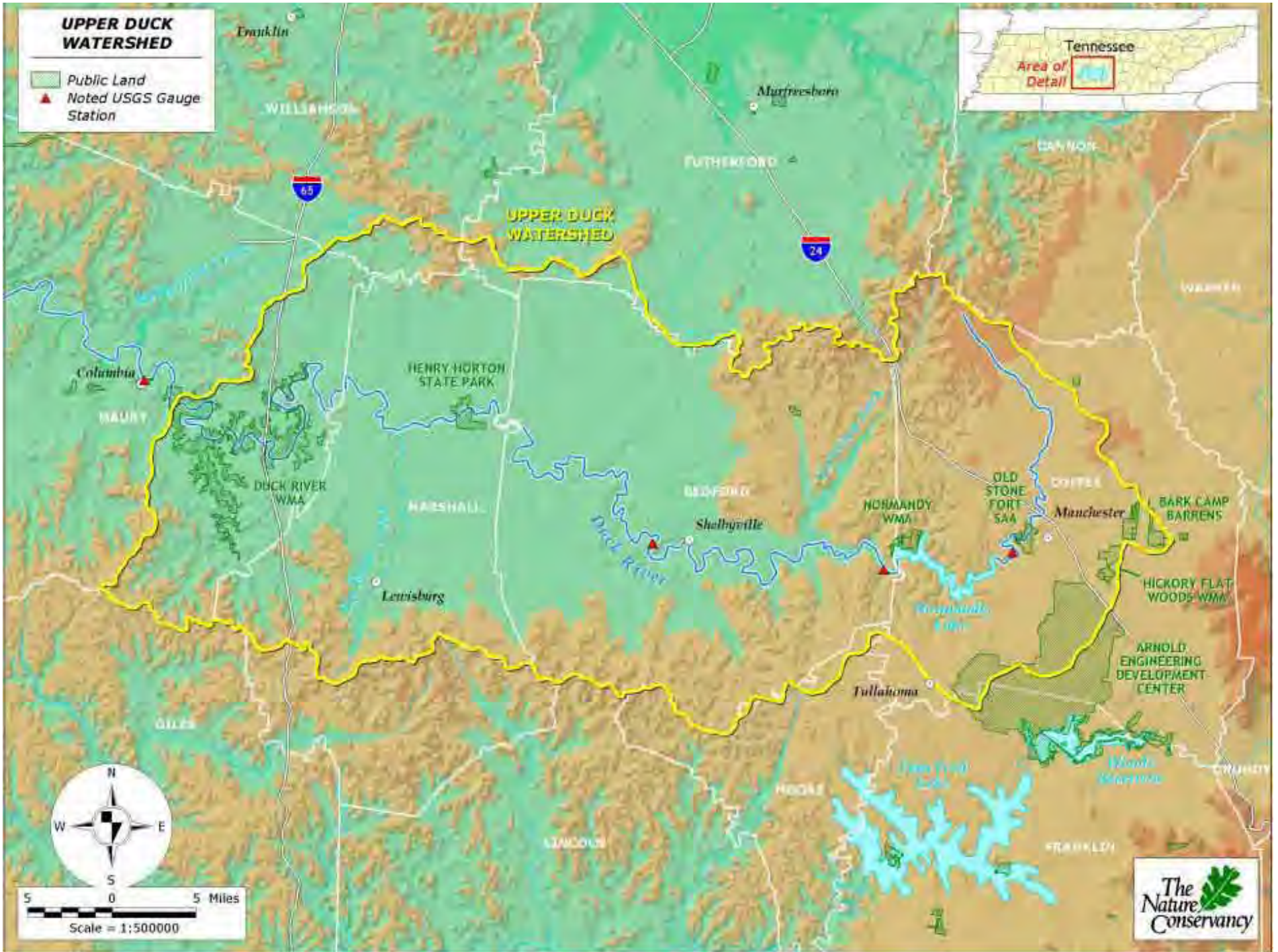
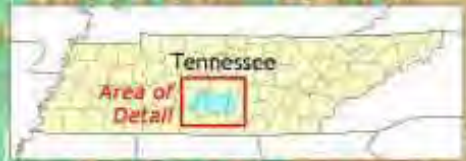


# The Duck River Watershed



# UPPER DUCK WATERSHED

- Public Land
- Noted USGS Gauge Station







# Conservation Targets

- Freshwater Mussels & Snails
- Fish Assemblage
- Caves & Karst systems
- Cedar glades, barrens, & woodlands
- Eastern Highland Rim barrens and wetland forests







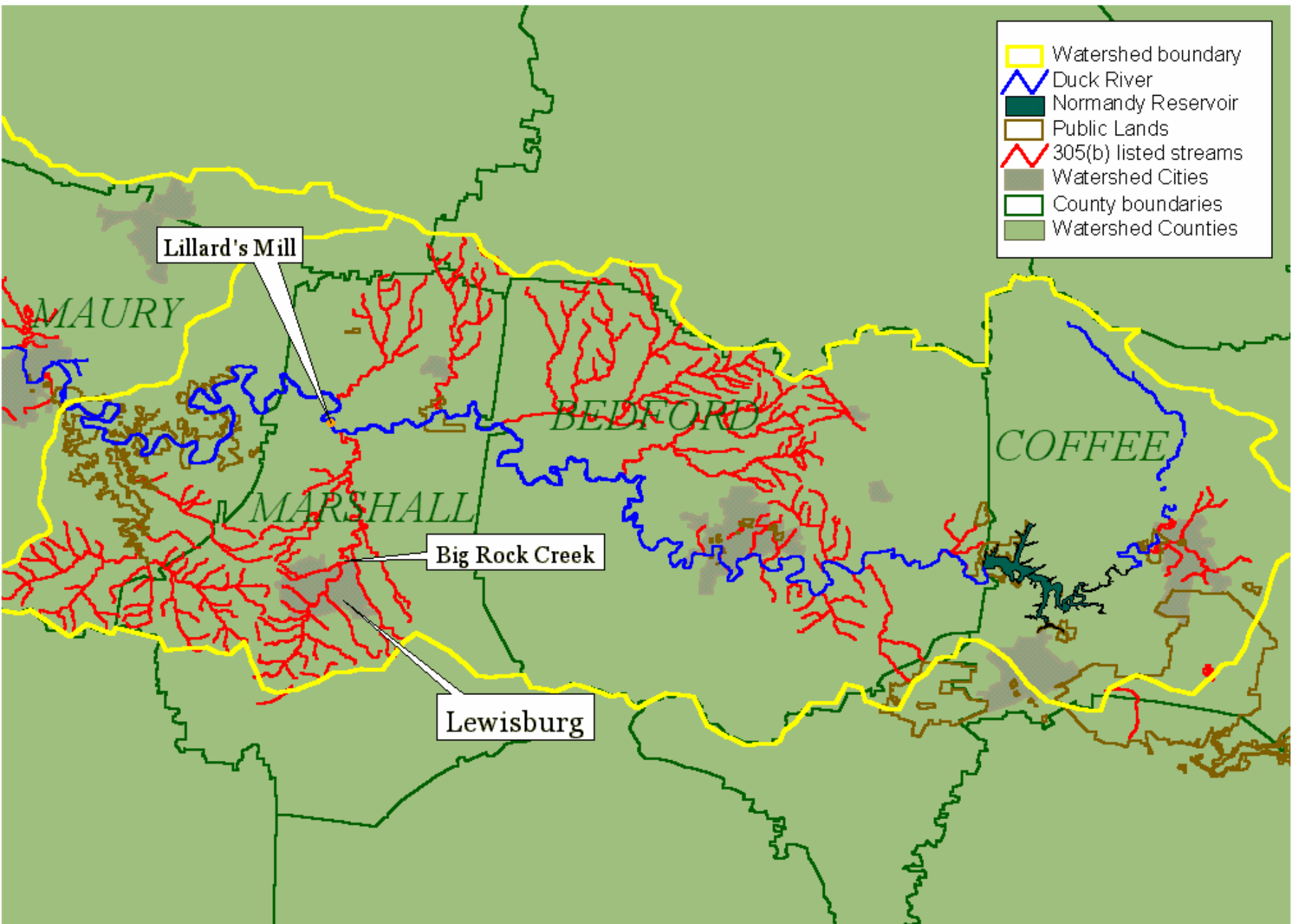
# What problems exist in the Duck River watershed?

- Modification of natural flow regimes
- Sedimentation
- Nutrient loading
- Habitat disturbance or destruction



# What's causing these problems?

- Dams along the river
- Surface withdrawals (municipal & industrial)
- Poor agricultural practices
- Poor land development practices
- Wastewater treatment
- Urban stormwater run-off

















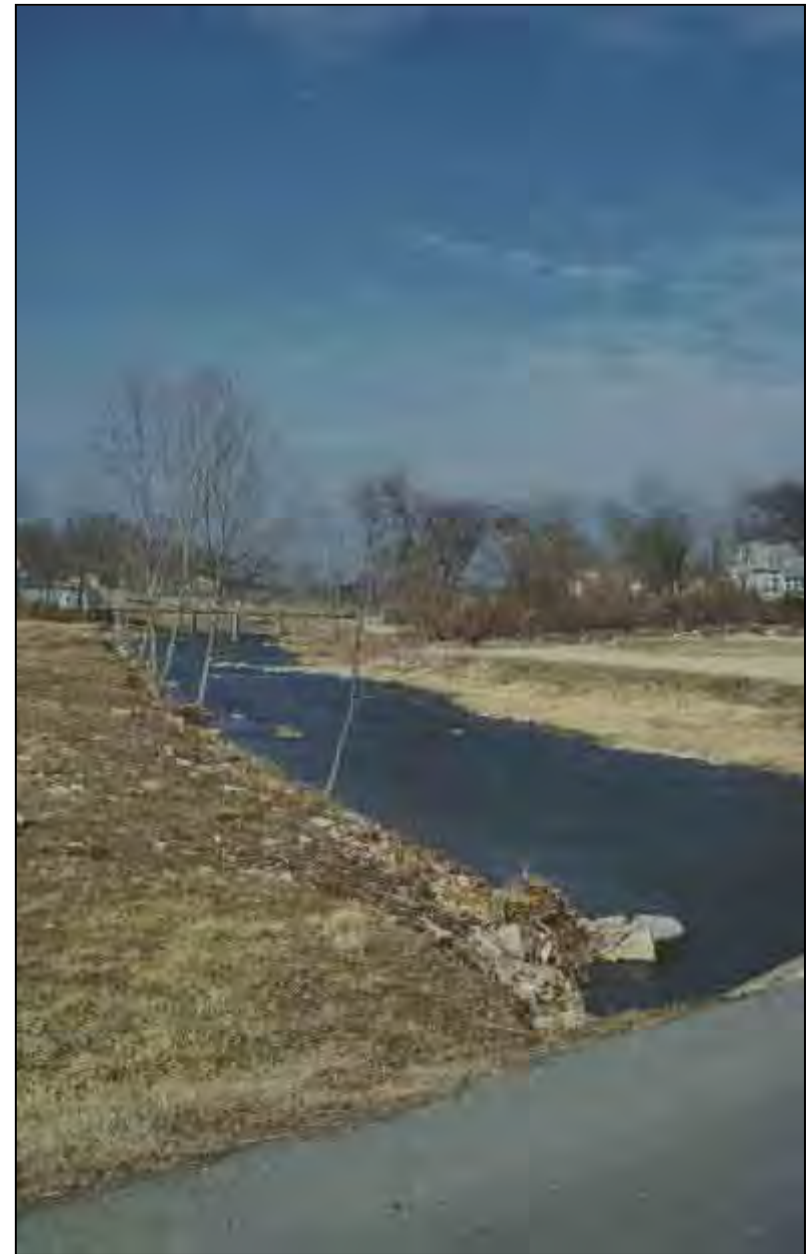




## **Big Rock Creek Lewisburg, TN**

Working with local  
governments & citizens on  
land use planning,  
stormwater management &  
Greenway project

**Big Rock Creek  
2002**







# Duck River

## Land Use & Zoning Roundtable

- Four county and 10 municipal governments involved over 18 months
- Diverse community interests represented
- Partners include the Duck River Agency, SE Watershed Forum, Tennessee Valley Authority, TN State Planning Office, South Central TN Development District, and TN Growth Readiness

# Land Use and Zoning Roundtable committees

## Streets and Parking:

Bryan Baugher	Codes	Marshall
Jim Bingham	Engineer	Marshall
Billy Clanton	Builder	Bedford
Steve Cunningham	Zoning	Coffee
John Freeman	City Engineer	Bedford
Ronnie Irwin	Engineer	Maury
Jim Jones	Vision 2020	Maury
Don Nelson	County Codes	Marshall
Morton Renegar	Zoning Board	Bedford
Robert Smith	Engineer	Coffee
Jerry Williams	Highway Committee	Marshall

## Lot Design:

June Beckum	Zoning Board	Maury
Jody Baltz	City Manager	Coffee
Phyllis Baltzer	Realtor	Maury
Brad Dilling	City Engineer	Maury
Tom Hall	Forester	Bedford
Ron Lamply	Builder	Marshall
Jim Moon	Zoning Board	Marshall
Wayne Neese	Realtor	Bedford
Donald Parker	Builder	Coffee
Wayne Williams	City Codes	Bedford
Danny Wix	Planning Committee	Coffee
Isacc Zimmerle	Builder	Marshall

## Natural Areas/Open Space:

Mike Anderson	W/W Columbia	Maury
Ed Craig	City Manager	Bedford
David Edwards	Banker	Maury
Cyril Evers	Planning Committee	Maury
Helen Garner	Chamber of Commerce	Bedford
Fred Haley	Forester	Marshall
J. P. Hatch	Planning	Maury
Beau Herring	City Codes	Maury
Freda Jones	Realtor	Coffee
John Miller	Engineer	Coffee
Mary Ann Neill	Realtor/Planning	Marshall



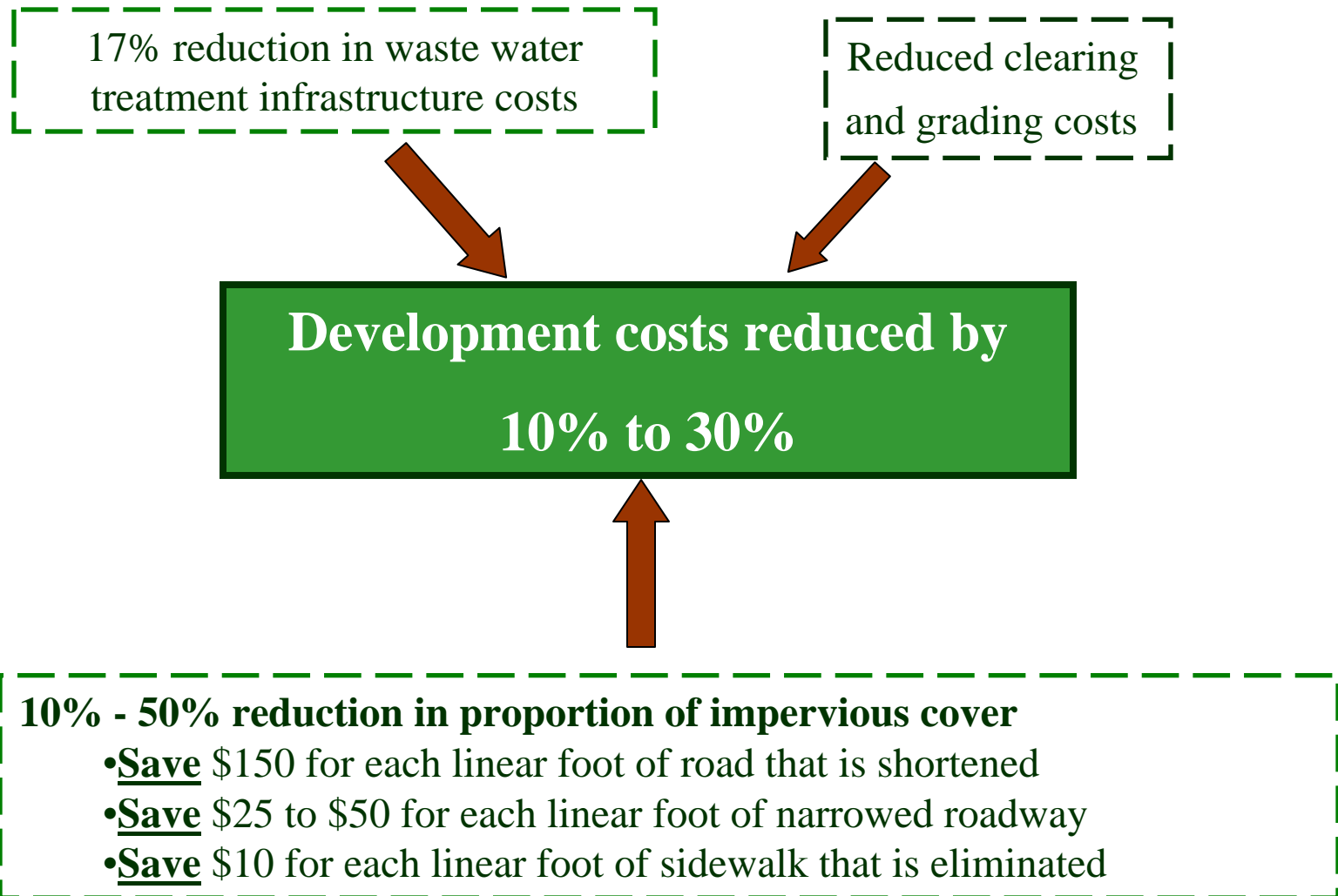
# **The Benefits of Using Smart Growth Principles in Development**



**Vanderbilt University  
Owen Graduate School of Management  
April 28, 2006**

**Ben Blank  
Mike Holick  
Yukimasa Makino  
Bob Neill  
Carrie Ruggles  
Julie Sinton  
Yukitomo Usutani**

# Cost Savings of Cluster Developments







## Land Use & Zoning Roundtable: Next Steps

- Implementation action steps identified at final meeting, July 2006
- Education campaigns for public officials and planners under development
- Final project report due November 1

