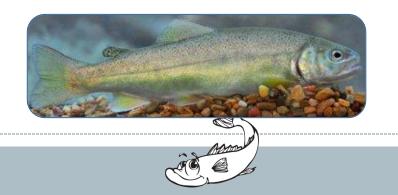
Davidson County Citizens For Improving Stream Health DC FISH

We All Live in a Watershed









We All Need Clean Water

- Drinking
- Fish and wildlife
- Irrigating crops
- Recreation activities
- Energy

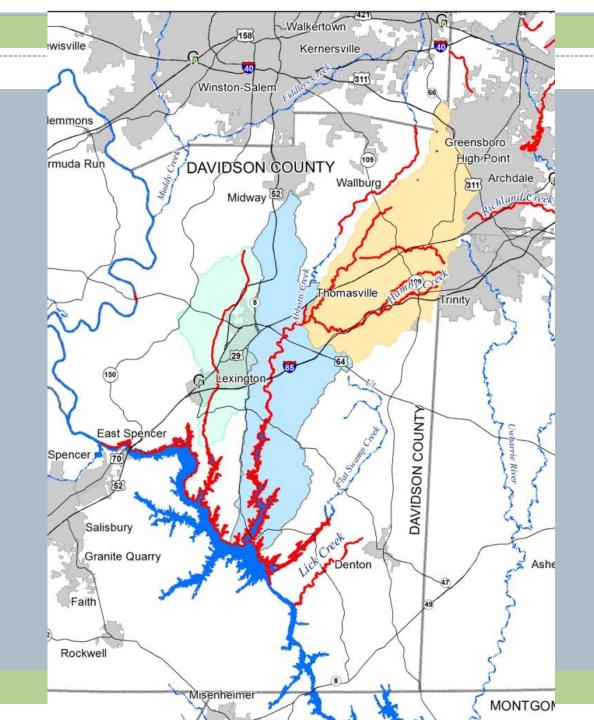
"Impaired" means it is not meeting one of those functions.





Davidson County Impaired Waters

Davidson County has 91 miles of streams and 11 square miles of impaired lakes including High Rock Lake





Lower Abbotts Creek Impairment

- Turbidity
- Poor Habitat
- Chlorophy ll-a



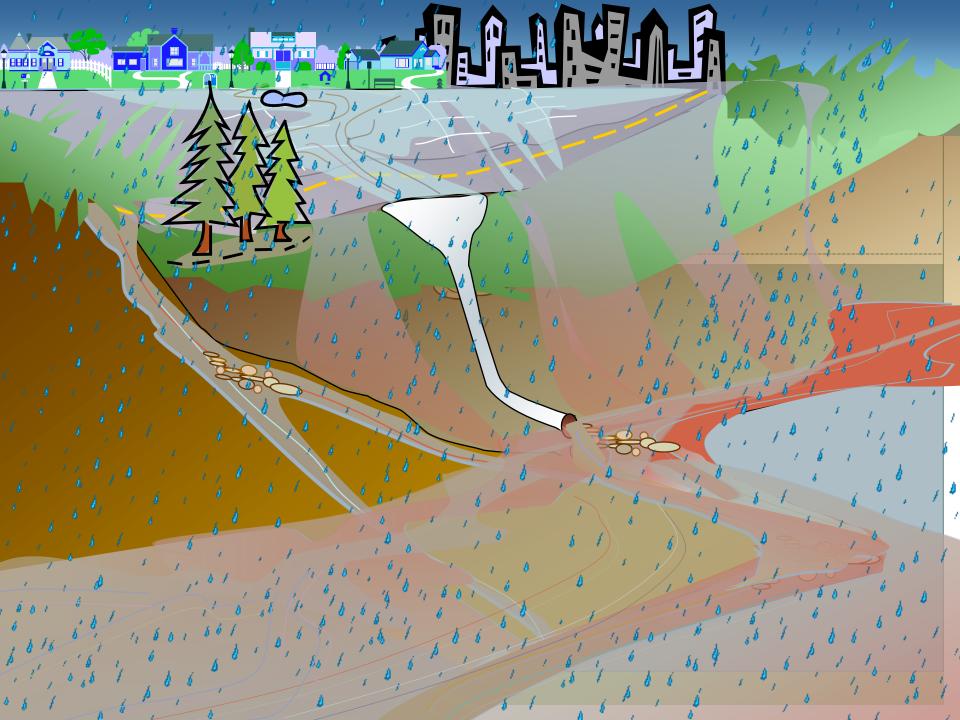














The cost of stress is no reproduction.



Environmental Stressors

Polluted Runoff

- Nutrients
- Bacteria
- Sediment

Sewage Overflow and spills

Clogged pipes





The cost of sediment pollution is estimated at \$16 billion every



Sediment Just Dirt, right?

- Smothers Fish Eggs
- Prevents Photosynthesis
- Removes habitat (Riffles)
- Drinking Water
- Recreation









1 complaint by Davidson County Residents



Trash

- •Attracts disease-carrying mosquitoes or rodents
- •Leaches Chemicals into the ground and water
- People are injured
- Wildlife mistakes litter for food



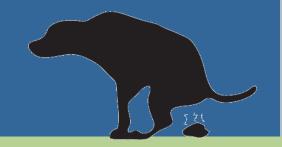


24,649 dogs in Davidson County = 2,968,972 lbs of raw sewage a year

Nutrients

Are good, right?

- Photosynthesis reduced
- Low Oxygen results
- Dead Zones
- Recreation degraded











Ways to Measure Stream Health

Chemical tests

pH, turbidity, dissolved oxygen, temperature.

Visual survey

Bank erosion, vegetation, tree cover/shade, woody debris

Biological survey

Aquatic macroinvertebrates – snails, crayfish, worms, insect larvae





Chemical Measures of Stream Health

- Turbidity
- Bacteria
- Nutrients
- Dissolved Oxygen
- Toxic Substances
- pH
- Temperature





Visual Measures of Stream Health

- Riffles
- Pools
- Erosion
- Tree Cover
- Pollution Sources

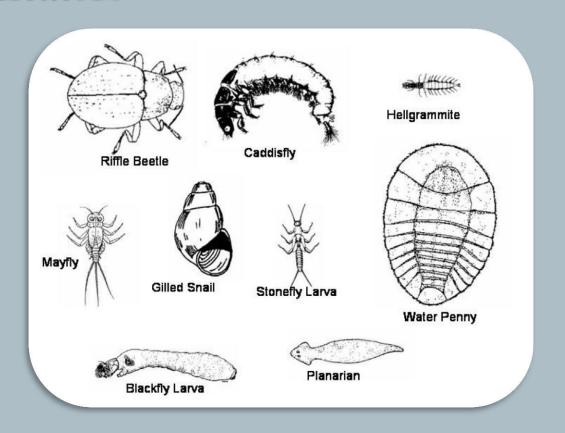


Photo: PTRC

Biological Measures of Stream Health



- Polluted
- How long?



Pollution Tolerant Species

- Rat-tailed maggots
 - Breath air
- Midges
 - High levels of hemoglobin
- Aquatic Worms





Facultative Species

• Can tolerate some of pollution

Damselfly Larvae







Dragonfly Larvae

Pollution Intolerant Species

Pollution intolerant

Mayfly Larvae



Photos: Haw River Assembly



Caddisfly Larvae

Opportunities to get involved







- Make choices that keep pollution out of our water
- NC Big Sweep
- NC Stream Watch- DC FISH



Davidson County Citizens For Improving Stream Health DC FISH

PIEDMONT TRIAD REGIONAL COUNCIL 336.294.4950

WESTERN OFFICE

400 West Fourth Street
Suite 400
Winston-Salem

EASTERN OFFICE

2216 West Meadowview Road
Suite 201
Greensboro

