

# Tennessee Environmental Council

- Mission: To Educate and advocate for the conservation and improvement of the environment, communities and public health
- Natural resources are the backbone of our economy,, communities and quality of life



## **TENNESSEE ENVIRONMENTAL COUNCIL**

Educating and advocating for the conservation  
and improvement of  
Tennessee's environment, communities and  
public health.

[www.tectn.org](http://www.tectn.org)

# Natural Resource Infrastructure: WWC and Small streams

- Protect water quality
- Maintain water supplies
- Provide natural flood control
- Trap excess sediment
- Sustain D/s ecosystems
- Maintain biological diversity
- (Meyer et al., 2007)



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APR 26 2002



# Duck River Watershed Characteristics

- 2821 mi<sup>2</sup>
- Contains over 4000 stream miles
- Drains part of 11 counties w/ 200,000 residents
- Main stem is 269 miles long, originates in Hoodoo and empties into the Tennessee River



# The Duck River Watershed

- Duck River is:
  - Recreational resource – paddling, fishing etc.
  - Drinking water for many communities
  - One of the most bio-diverse rivers in Tennessee, United States, world
    - 150 different fish species
    - Over 50 freshwater mussel species
- Dependent on the WWC and headwater streams in its watershed









# Riparian Areas: What are they?









# Benefits of Trees are Tree-mendous!

- Environmental benefits
- Economic Benefits

- Social Benefits



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# Social Benefits of Trees



- Communities with more trees have less crime, graffiti, noise and litter
- Increased self-discipline and reduced ADD
- Reduced risk of skin cancer (due to shade)
- Stronger ties among neighbors, with a greater sense of safety
- Have fewer cases of childhood asthma and lung disease



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# Tennessee Leads the Nation!

- 4 cities in the top 10...

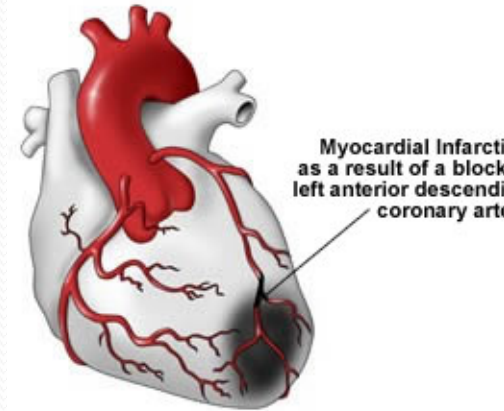
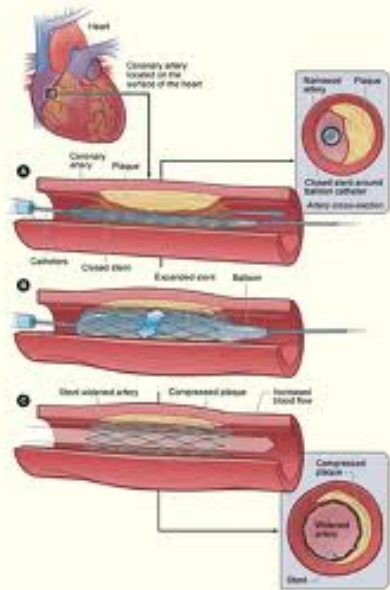




# For asthma!



# Heart Disease





# Economic Benefits of Trees

- Extending the life of paved surfaces thru shade
- Producing positive consumer responses to retail and business locations
- Homes with mature trees may sell for as much as 20% more as compared to homes with out mature trees.



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... like any other infrastructure...



Plan



Install



Maintain



Remove



Reinstall







A group of people, including children and adults, are participating in a conservation activity in a grassy field. They are kneeling or crouching, working on the ground. In the background, there are bare trees and a clear sky. The text "Transitions are sometimes like fruit, bitter before they are ripe." is overlaid in yellow.

Transitions are sometimes like fruit,  
bitter before they are ripe.

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