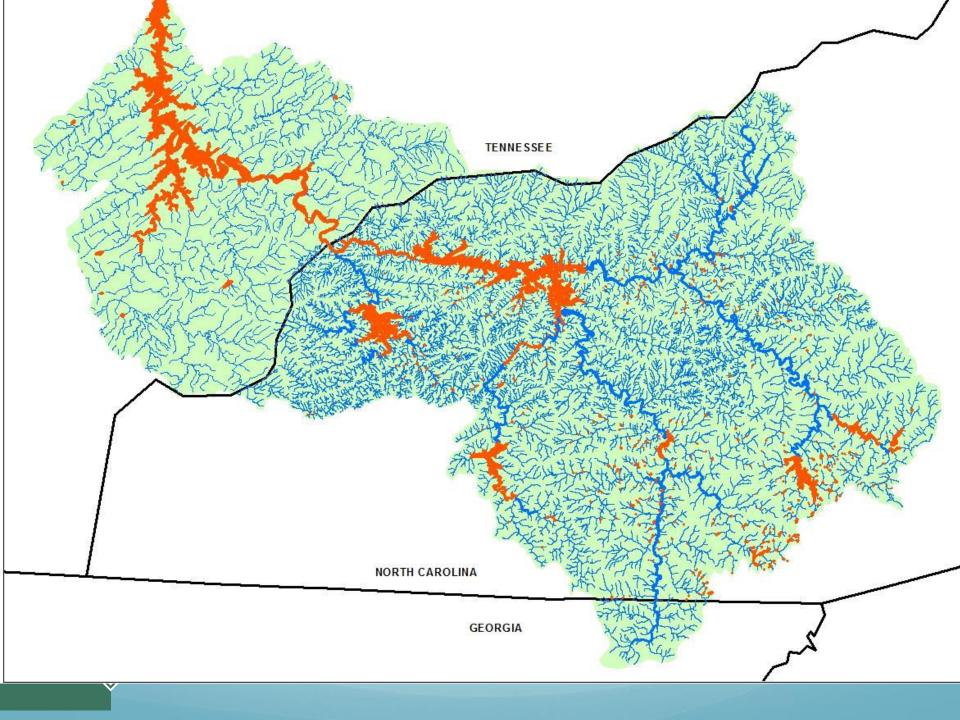
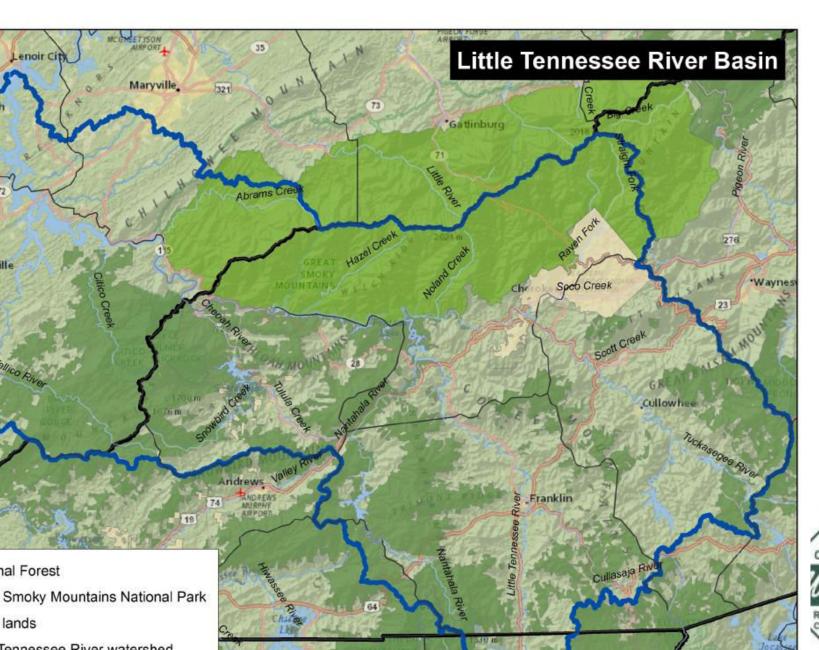
# Little Tennessee River **Native Fish Conservation** Partnership Aquatic Conservation on a Landscape Scale

Andrea Leslie NC Wildlife Resources Commission

Fred Harris NC Wildlife Federation Fisheries Conservation Foundation







## **Native Biodiversity**

>100 fish, 10 mussels, 12 crayfish species

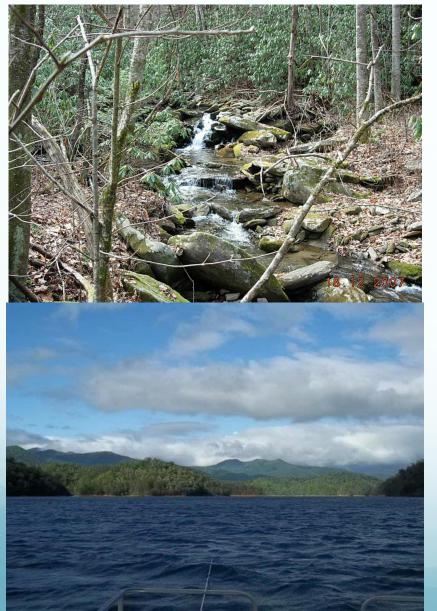
32 fish, mussel, and crayfish rare or listed

Little Tennessee basin endemics: Citico Darter, Smoky Madtom, Little Tennessee River Crayfish, Tuckasegee Crayfish





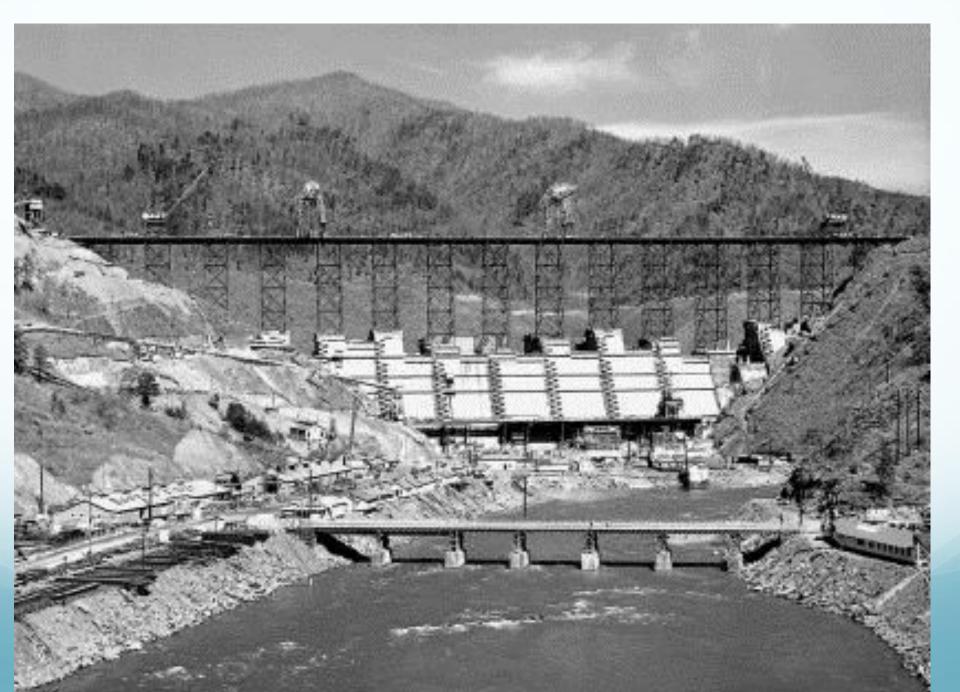
Diverse Aquatic Habitats





# **Impacts**





# Native Fish Conservation Partnership



- > >20 organizations –
  federal agencies,
  NC/TN/GA agencies,
  conservation
  organizations, EBCI,
  hydropower industry
- Steering committee, conservation teams
- Mission, goals & objectives, meetings

# Native Fish Conservation Area: Four Critical Elements

- (1) maintain processes that create habitat complexity, diversity, and connectivity
- (2) nurture all of the life history stages of the fishes being protected
- (3) include a large enough watershed to provide longterm persistence of native fish populations
- (4) provide management that is sustainable over time



#### Partners in Action

- Habitat restoration
- Land protection
- Outreach and education
- Biological community restoration







#### Value Added?

- Providing Focus to Partners
- Collaborating on Priorities
- Pooling Resources

#### **American Rivers**



#### **Mainspring Conservation**

#### Eastern Band of Cherokee Indians



### Tennessee Valley Authority





www.shadeyourstream.org

# **Photo: Mainspring**

#### Why is shading important?





Water Quality

Vegetation along stream banks keeps soil, pesticides, and fertilizers from getting into the stream.



Roots

Roots anchor the soil, reduce flood damage, and take up excess fer-tilizers.



Food & Shelter

Leaves and branches provide food and shelter for insects. fish, and other aquatic life.



Water Flow

A healthy shaded stream slows down water, which



Cool Temperatures

Shade keeps the water cool, allowing fish and aquatic life



Wildlife Habitat

Shaded streams pro-vide valuable habitat for wildlife.

#### **GET INVOLVED**

#### **Upcoming Events**

Mills River Stream Repair Workshop February 17 @ 8:90 am - 4:00 gm EST

Mars Hill Stream Repair Workshop

March 30 @ 9:30 am - 4:00 pm EDT

View All Events

Have additional guestions? Need to talk to an expert? Click here to contact a local expert in your area.

University of Georgia study finds value in shading your stream.

Read the article.

#### Organizations











# Bringing in the Money

- Duke Water Resources—video project and web mapper
- Tennessee Valley Authority—riparian restoration
- Fisheries Conservation Foundation—basic support
- NC American Fisheries Society—snorkeling equipment
- NC Wildlife Federation—snorkeling equipment

#### Partner Work

- Conservation Fisheries Inc: monitoring of the fab four in Citico Cr and Tellico R
- Great Smoky Mountains National Park: Blotchside Logperch reintroduction into Abrams Creek
- Mainspring Conservation Trust: barrier removal on Brook Trout stream
- EBCI: mussel reintroduction feasibility study in the Oconaluftee River







#### **Educational Videos**

HIDDEN RIVERS

HR | VIDEO

HR | GALLERY

THE LOST FISH

UPRIVER

RIVERWEBS.

4 THE LOVE OF RIVERS AMPHIBIAN DEFORMITIES

FI ORGANIZATION
ABOUT FI

MEMBERSHIP IMAGE ARCHIVES FILM PRODUCTION WORKSHOP SERIES

DONATE TO FI

CONTACT

NAIAD ORG

MAILING LIST

FOLLOW

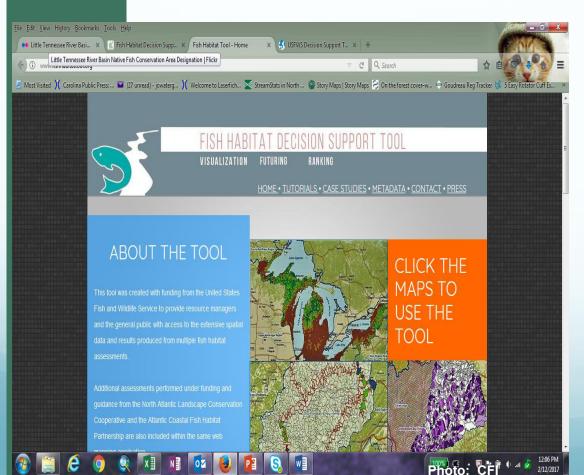




through photo, video, & film



#### Little Tennessee Web Mapper



House & display data

Identify data gaps

Visualize threats

Determine focal areas for management actions

