Habitat Restoration and Management in the Little Tennessee River Valley

Dennis Desmond

The Land Trust for the Little Tennessee

LTA Rally 2006 – Biodiversity Sessions E01 and F01 Sunday, October 15th

The Land Trust for the Little Tennessee

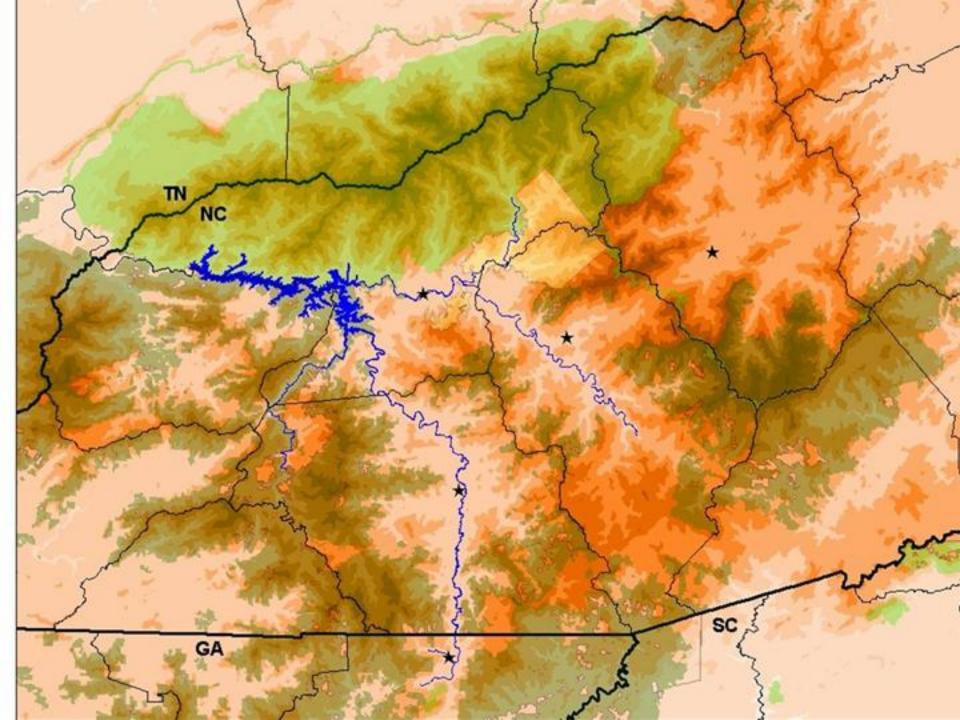


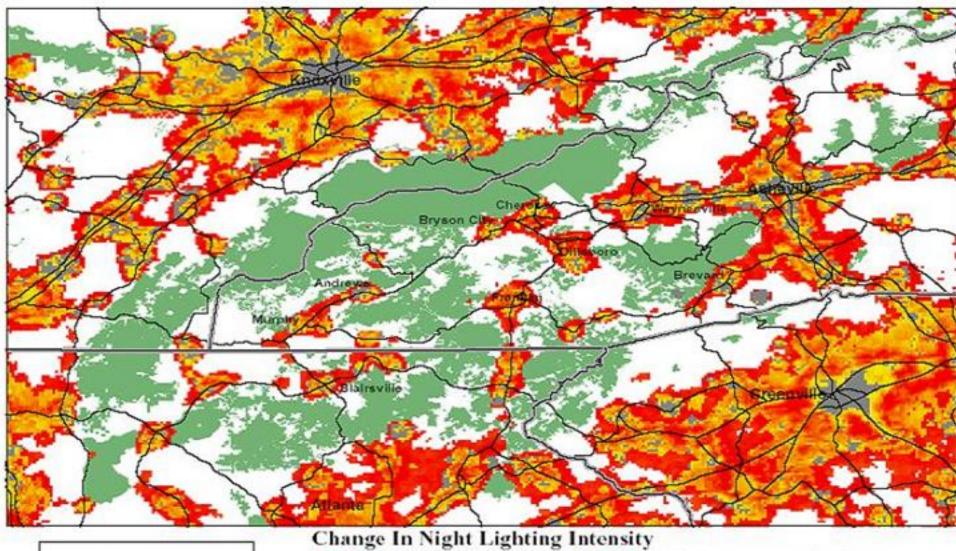
Mission: The Land Trust for the Little Tennessee is dedicated to conserving the waters, forests, farms, and heritage of the Upper Little Tennessee and Hiwassee River Valleys.

Incorporated in 1997, currently 7 staff

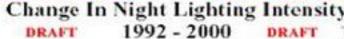
Service area: far western North Carolina, 6+ counties











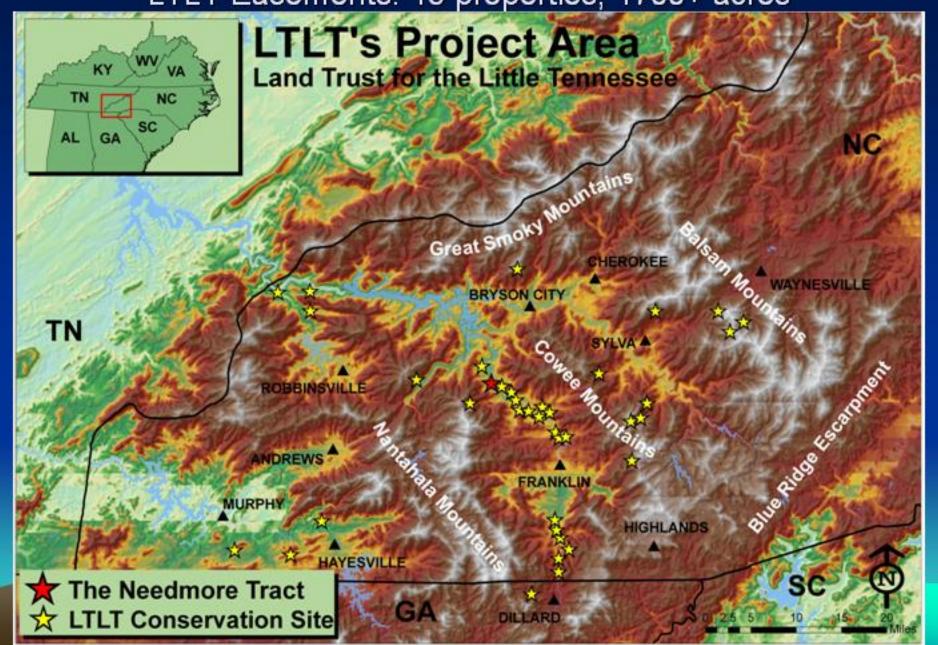
Areas of very high illumination, usually population centers. Public/Conservation Lands

This data set represents a protion of a larger national Night Lighting Change data set developed by: Dr. Chris Elvidge at NOAA in conjunction with The Doris Duke Charitable Foundation and LTC - Conservation Advisory Services.



b.silberfarb

LTLT Title: 17 properties, 540 acres LTLT Easements: 15 properties, 1700+ acres



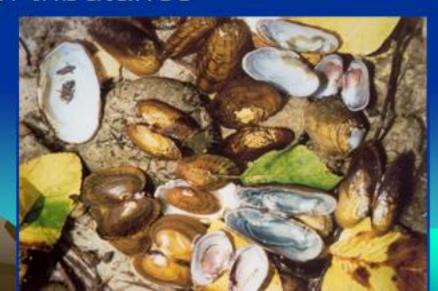
LTLT's early involvement in habitat restoration and management

- Paul Carlson, current ED
 - Registered consulting forester—developed clientele of forest landowners
 - Served on SWCD board—helped obtain funding for streambank restoration program
 - Relationship with forestry program of Western Carolina University

Targeted ecological functions and biological values

- Aquatic habitat and water quality of Little
 Tennessee River (protect imperiled species)
 - establishment of forested riparian buffers
 - stabilization of eroding streambanks
 - in-stream restoration of tributaries





Targeted ecological functions and biological values (cont.)

Little Tennessee River riparian areas

- Restoration of endangered species and rare

plant communities

montane alluvial forest

- giant rivercane canebrakes
- Virginia spiraea, bog turtle
- Invasive exotic plant control



Targeted ecological functions and biological values (cont.)

Restoration & Management of Upland Forests – rich cove & northern hardwood forest types

- most productive, biologically & commercially
- secondary forests: high-grading, lack of management
- threats: air pollution, exotic species







Mechanisms used with CE Landowners

- Easement language
 - Restrictive clauses: (e.g., forest management plan; riparian buffers)
 - Affirmative clauses (e.g., invasive exotic plant control)
- Restrictions tied to purchased easements
 - CWMTF: woody riparian buffers, wetland buffers
 - FRPP: NRCS conservation plan
 - Forest Legacy: forest management plan
- Demonstration sites on LTLT-owned lands
- Volunteer workdays on LTLT-owned lands
- Landowner workshops
- Subsidized services (cost share programs, WCU intern program)

<u>Partners</u>

-Soil & Water Conservation District

- riparian reforestation
- streambank stabilization
- in-stream restoration
- Western Carolina University (intern program)
 - forest management planning
 - demonstration sites/practices
- Little Tennessee Watershed Association
 - landowner outreach & education

<u>Funding</u>

Forestry Project: National Forest
 Foundation & Doris Duke Charitable
 Foundation

 Valley Bottoms: U.S. Fish & Wildlife Service, National Fish & Wildlife Foundation, Cherokee Preservation

Foundation

Response

- Donors: continued, long-term funding
- NC Wildlife Federation: 2002 Governor's Award, Land Conservationist of the Year
- Membership: increasing
- Increased requests from landowners for assistance

Challenges

- Tree survival & growth
 - small seedlings, vegetative competition, beavers
 - response: 2-year seedlings, planting tubes
- Funding: Donor Fatigue
 - Response: diversifying funding sources; reduced cost-share