



Partnerships for Successful Projects

Matthew Hicks Freshwater Ecologist Mississippi TNC mhicks@tnc.org



Take Home Message

- Introduce The Nature Conservancy to you
- Present reasons why you might consider partnering with The Nature Conservancy in your projects and programs



Presentation Outline

- TNC Mission and Values
- Who we are and how we work
- How and why we use partnerships
- Examples of Successful Partnerships Used by the MS Chapter of TNC
- Focus MS but think in terms of national





Mission of TNC

To preserve the plants, animals, and natural communities that represent the diversity of life on earth by protecting the lands and waters they need to survive





Statement of Values

- Integrity Beyond Reproach
 - honest, accountable, high ethical standards
- Non-confrontational
- Effective Partnerships
- Innovation and Excellence
- Commitment to People
- Commitment to the Future





The Nature Conservancy Who We Are

> Protekte deadi0.gnilliomacinesaih U.S.
 > MRAASGersi@PL9AHINIArtieres
 > Stonktwiide 1951 by group of
 > Oralgeisth är preserse in >300
 > HommunitieshinplerS. in all 50 states
 > Shifted Officers (1980is)throm/A
 >> 0 Specificersites to large landscapes
 > >1, just species-fogus to include communities and systems
 > Key strategy - working in

collaborative ways with public and private sector and stakeholders





The MS Chapter

- Established 1989
- > 3000 members
- > 20 staff in 5 locations
- 128,000 acres protected to date



Why Does Biodiversity Matter?

EcosystehtyBenefifists

Mark and medicitient climate
 "We should be served and the served of the state of the served of the state of t

Freshwater Biodiversity: U.S.

- Numbers of Earth's species occurring in the U.S.
 - 2/3 of crayfishes
 - 40% of stoneflies
 - 1/3 of mayflies
 - 1/3 of mussels
 - 10% of freshwater fishes

Source - The Nature Conservancy











Freshwater Biodiversity in the Southeast U.S.

- Numbers of U.S. species occurring in the SE
 - 62% of freshwater fishes Walsh et al. 1995
 - -91% of mussels
 - 61% of snails Neves et al. 1997

- 90% crayfish occur in SE American Rivers

- 50% of mayflies, caddisflies, stoneflies and dragonflies Morse et al. 1997

"The southeastern United States is one of the richest aquatic regions on the planet."

American Rivers

Status of Southeast Freshwater biodiversity

- Extinct, imperiled or vulnerable
 - -50% of US crayfish (TNC)
 - little known about status of this group
 - -73% of mussels
 - -25% of fishes
 - 12% of stoneflies, mayflies, caddisflies Morse et al. 1997



• 26% of fish species in need of conservation management *Warren et al. 1999*

Threats to Freshwater Biodiversity

- 3 Major Threats
 - Physical habitat alteration
 - geomorphologic, hydrologic, thermal
 - Water quality pollutants
 - mainly nutrients and sediments
 - Predation and competition from invasive species.









How Do We Achieve Our Mission?







Keys to Success

Throughout entire process of Conservation by Design

Engage the community and public stakeholders

> Work in partnership with:

- local, state and federal governments organizations
- other non-profit conservation organizations
- private companies

Use scientific data as foundation
 Funding







SHEPy1 Corgentifyn Areas/Sites Conservation In Mississippi Areas

<u>Use of Partners</u> Data Gathering Expert Workshops Validation







Develop Conservation Project Plan for each Area

Use of Partners

More Data Gathering Expert Workshops Review and Validation







STEP 3 and 4

Implement Conservation Strategies Examples of Gonservation Action Through Partnerships Use Partners in Many Ways





Pascagoula River Partnership Projects

Pascagoula River Basin

- Largest river with unimpeded main stem in the lower 48 states
- 22 T and E Species
- 327 species of birds noted
- 107 species of resident fish
 - Pearl Darter, Gulf Sturgeon
- AL Red-bellied and Yellow Blotched Map Turtle







Sedimentation.

Alteration to Fire Regime

Land Conversion Pas

Sewage Discharges

Exotic/Invasive

Species

Alteration to Hydrology



- 39,529 acres acquired along Pascagoula Corridor (1976)
- Partners
 - The Nature Conservancy
 - MS Wildlife Heritage Commission
 - State of MS



39,529 protected acres

• Book

 Preserving the Pascagoula, by Don Schueler



Pascagoula River Basin Alliance

• Mission

 promote the ecological, economic, and cultural health and viability of the Pascagoula Watershed by fostering research, communication, and action

Partners

 Local citizens, Audubon MS, Chevron Pascagoula Refinery, Congressman Gene Taylor's Office, MS Association of Supervisors, MS Coastal Preserves Program, MDEQ, MDWFP, MS Forestry Association, MS Power Co., MS Wildlife Federation, MSU Extension Service, Pat Harrison Waterway District, Plum Creek Timber, The Nature Conservancy, University of Southern Mississippi



Charles M. Deaton and Herman Murrah Preserves

- >5,000 acres at confluence of Leaf and Chickasawhay Rivers (partly funded by CIAP)
- Goal
 - restore and manage properties for their highest ecological values
- Partners
 - The Nature Conservancy, MDOT, FHWA





Pascagoula River Ecotourism Study



• Purpose

 provide tool and a network to aid communities as they develop ecotourism strategies in George and Harrison Counties



• Partners

- The Nature Conservancy
- MDEQ
- Jackson & George Counties
- Coastal Preserves
- Audubon MS





Escatawpa River Observatory and Nature Trail

- Located at Grand Bay Wildlife Refuge (MS Welcome Center, I-10)
- 4-Loop trail and observatory deck on Escatawpa River
- Partners
 - MDOT, USFWS, MS Welcome Center, International Paper, ChevronTexaco,
 Friends of Sandhill Crane Refuge,
 Americorps, The Nature Conservancy







Geomorphic Assessment Pascagoula River System

Dr. Joann Mossa Department of Geology University of Florida

Purposes

- understand current geomorphic state of the Pascagoula River
- understand causes/effects of accelerated erosion within the watershed

Partners

Pat Harrison Waterway District U.S. Army Corps of Engineers Mobile District US Geological Survey

The Nature Conservancy



Other Partnership Projects



- Formed 1996
 - acquire high priority conservation lands on coast
 - state appropriated dollars
- >15,300 acres acquired
- Partners
 - The Nature Conservancy
 - MS Secretary of State
 - MS Department of Marine Resources

Coastal Preserves Program





Lower Pearl Partnership

- Community based Conservation
- Goals
 - Preserve, protect and restore the Lower Pearl
 - Compliment TMDLs being performed by LDEQ and MDEQ
 - Begin developing Conservation Area Plan
 - Develop meaningful relationships with community and stakeholders
- Partners
 - The Nature Conservancy (MS and LA) Louisiana DEQ, Mississippi DEQ, Gulf of Mexico Program





Mike's Island Restoration Project

- Located within NASA buffer
- Goal
 - Restore natural vegetation and hydrology of land and waters
- Funding partners
 - NOAA, MDEQ, Hancock Co. Board of Supervisors, EPA
 - Seeking partnerships from US NAVY and others





Mississippi's Lower Delta Partnership <u>Creating a Forum for Consensus</u>

• Goals

- Provide voluntary programs and incentives restoration and conservation
- Optimize conservation of public lands
- Foster education and outreach of sustainable use of natural resources
- Improve and develop compatible recreational opportunities











Lower Delta

Partnership









Business Council for Sustainable Development Gulf of Mexico





THE POWER OF PEOPLE[™]







Mississippi Black Bear Restoration Task Force





Fields to Forests A Carbon/Conservation Co.











US Army Corps of Engineers





Weyerhaeuser Partnership

> MOU to partner in conservation efforts at several properties owned by Weyerhaeuser Corporation

Example - In process of developing Land Management Plan for 50 acre tract along the Buttahatchee River

> Partners

- Weyerhaeuser
- The Nature Conservancy
- Alabama Natural Heritage Program



Natural Resources Initiative of North Mississippi

- Alliance of non-profit, government, academic, business, industry and citizens
- Goal facilitate environmentally sustainable economic development in North MS



US Forest Service

- MOU signed (1999) regarding USFS managed lands
- Has fostered cooperative land deals and other partnerships with the USFS





US Army Corps of Engineers

Benefits Mem&AGEALesses for M&Erstanding network of partnerships and local community connections Signed between TNC and USACE (national violation biological expertise Purpo&fique position as a leading conservation organization fixed -oggeestroiting for my there in projects that promote contarge tights by the formation of the

- water resources expertise and experience

– funding

US Army Corps of Engineers ®



- Mississippi State University, University of Southern Mississippi, University of Mississippi
 - Member of Advisory Council
 - Exploring student internships, and co-op opportunities
 - Exploring grant proposal partnerships
- Millsaps
 - internships
- Mississippi College
 - using laboratory space and building biological database













- Mission is similar to many other organizations
- Successful track record
- Have staff established in community based offices
- Many scientific staff with broad based backgrounds and experience
- Non-confrontational, believe in working together



SAVING THE LAST GREAT PLACES ON EARTH

· www.nature.org

TNC of MS

Contact: Matt Hicks mhicks@tnc.org (601) 713-3355