GUADALUPE RIVER BASIN STRATEGIC CONSERVATION PLAN

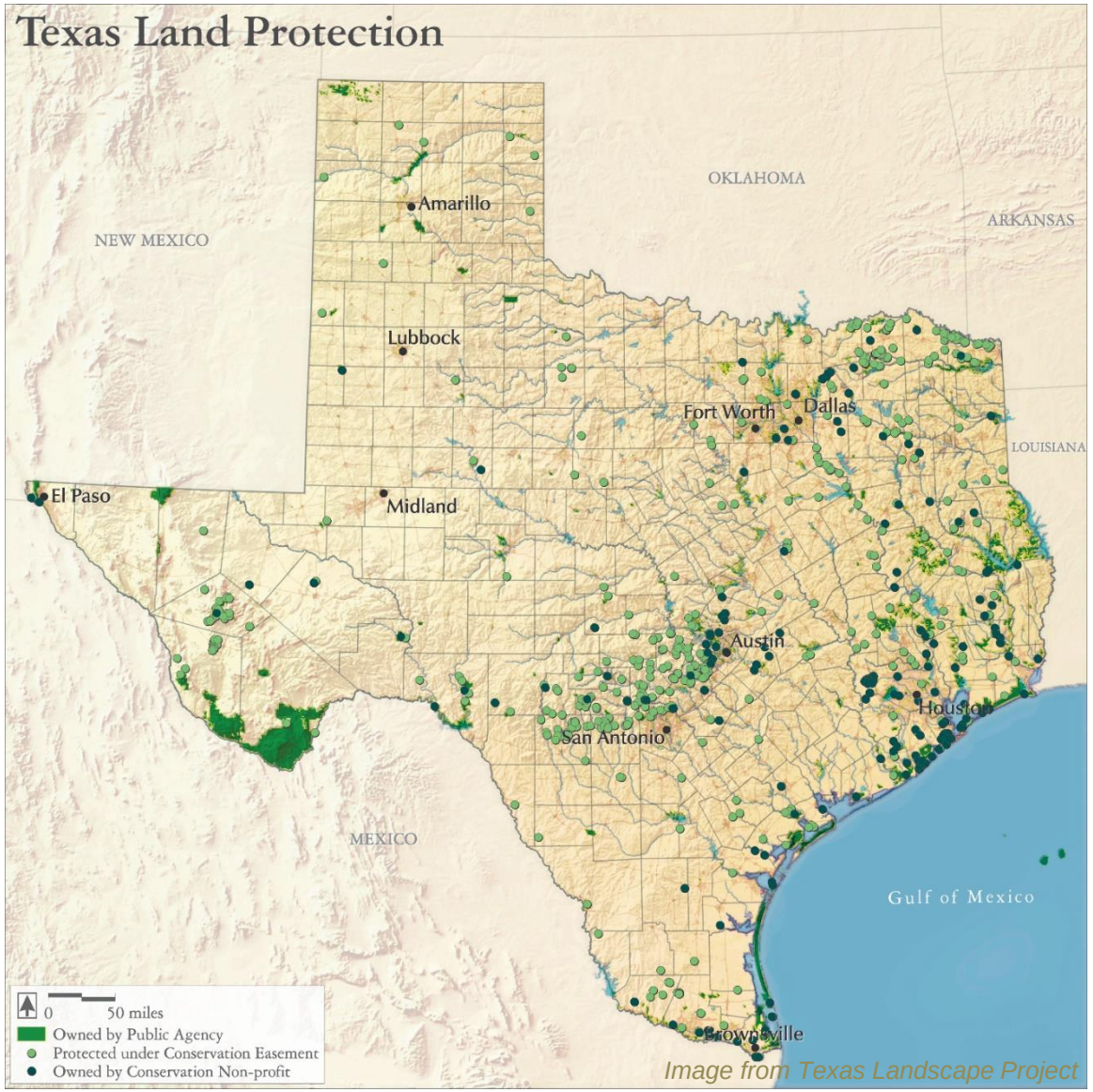
November 19, 2019

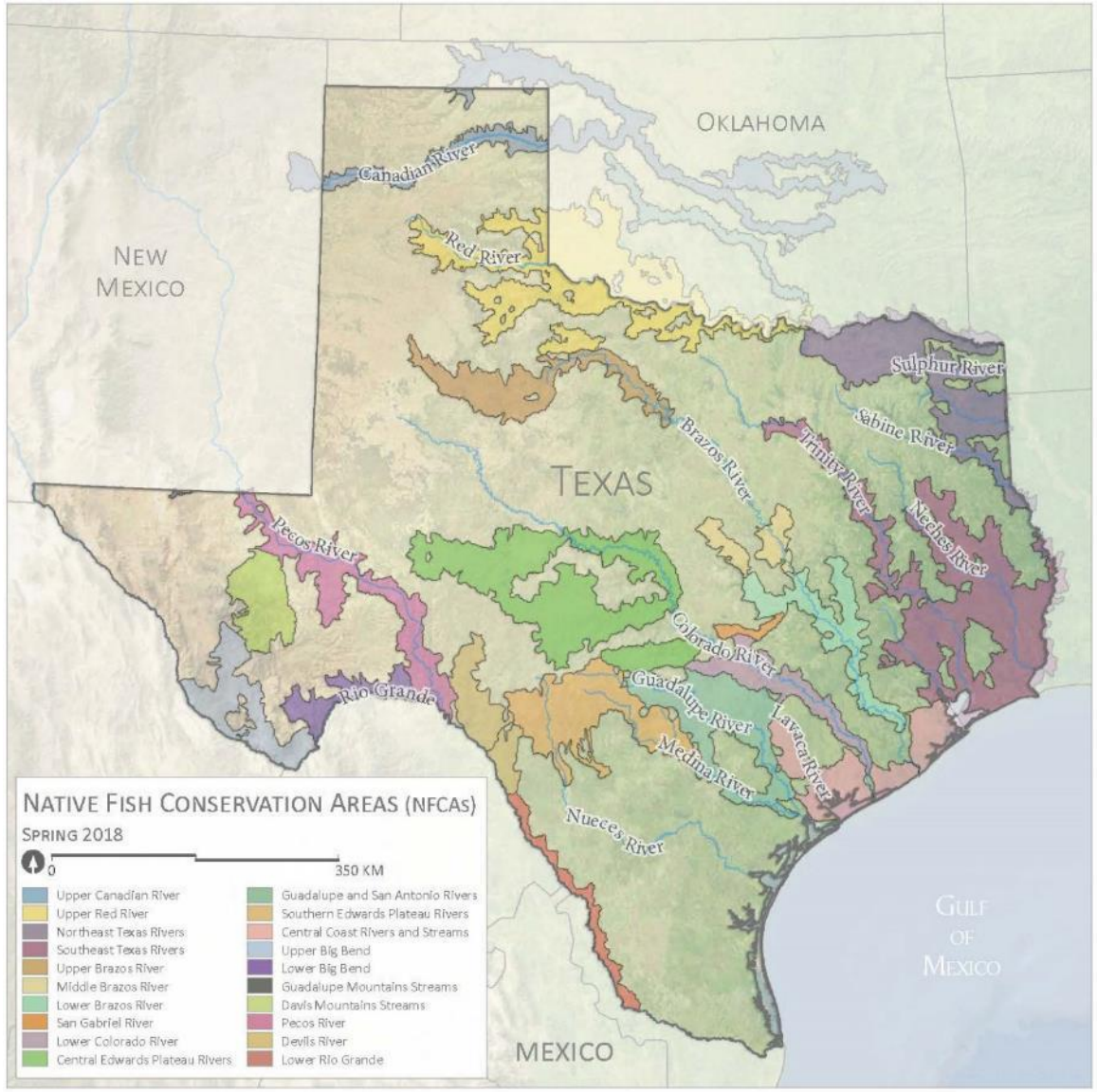
Assessment → Planning → Action

Bridging the 'Knowing-Doing' Gap in Conservation

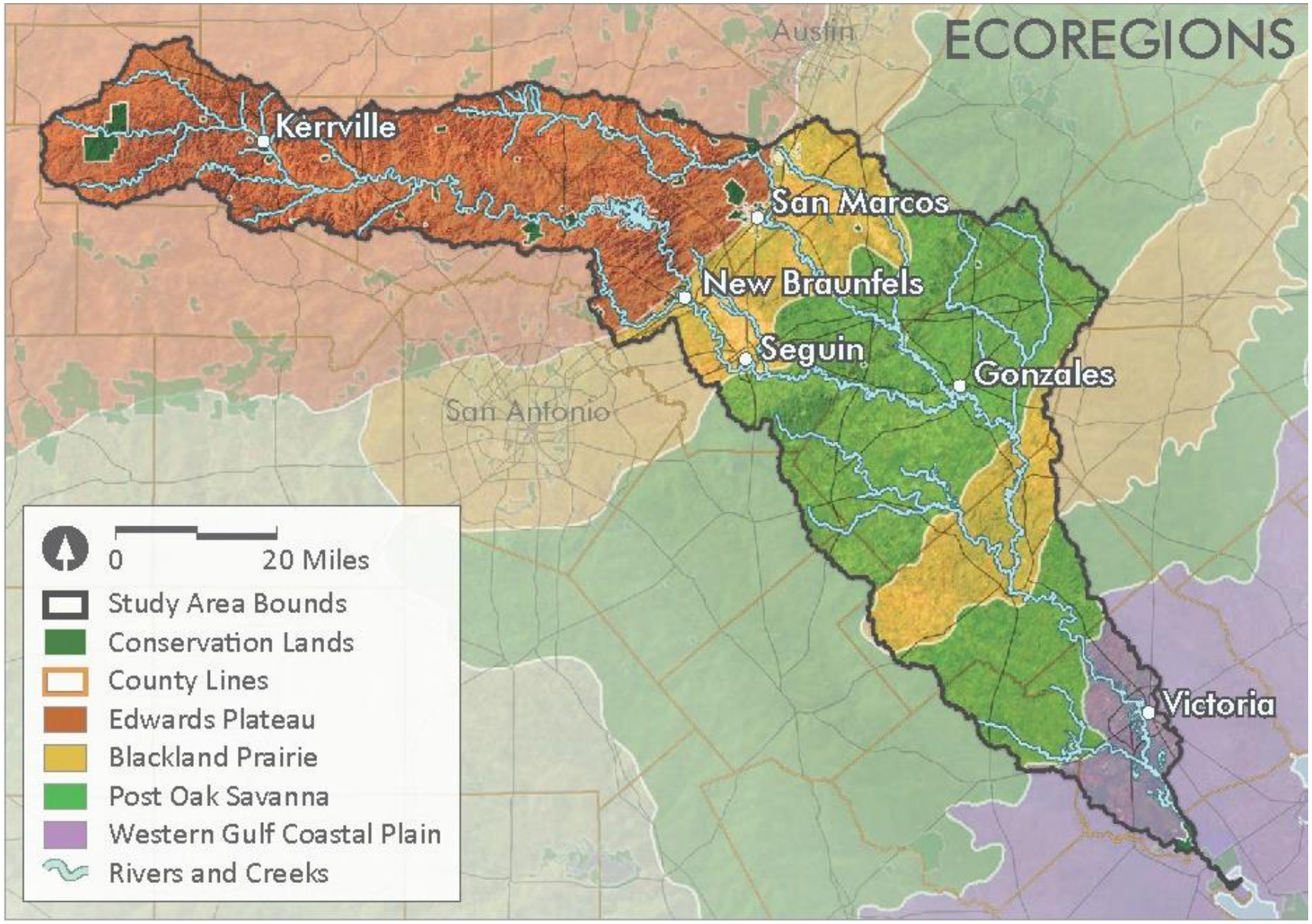
Texas Parks and Wildlife Department
Meadows Center for Water and the Environment at Texas State University
Siglo Group

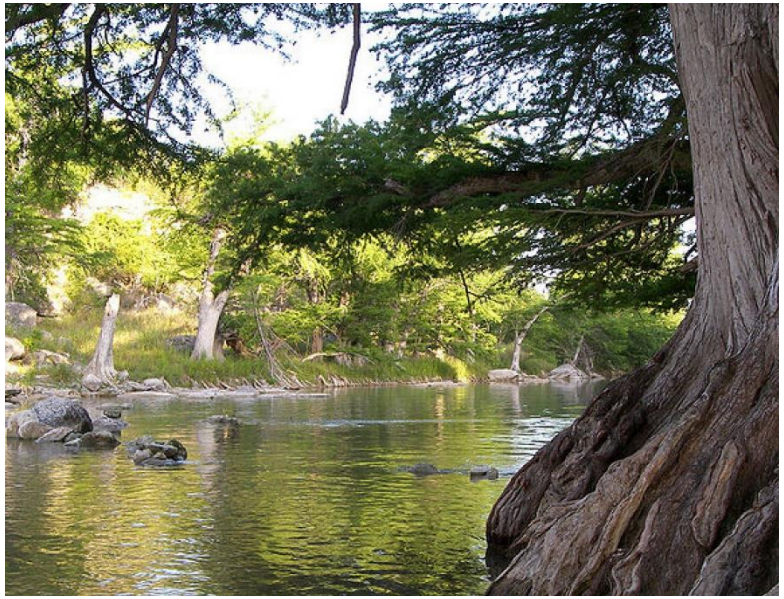
Native Fish Conservation Areas & Conservation in Texas





Ecoregions


ECOREGIONS
Austin
San Antonio
Kerrville
San Marcos
New Braunfels
Seguin
Gonzales
Victoria
0
20 Miles
Study Area Bounds
Conservation Lands
County Lines
Edwards Plateau
Blackland Prairie
Post Oak Savanna
Western Gulf Coastal Plain
Rivers and Creeks



Conservation Resources

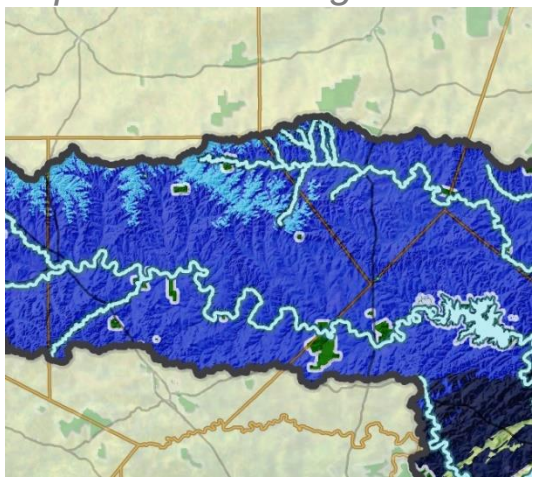
	Conservation Resources	Weighting
Water	Major Spring Buffers	High
	Aquifer Recharge Areas Scaled	High
	Karst Areas	Moderate
	Public Water Supply Surface Intakes	Moderate
	Riparian Corridor	High
	303D Impaired Waterway Buffers	Low
Cultural	Parcel Size	High
	Proximity to Conserved Land	Moderate
	Development Corridors	Moderate
	Prime Farmland Soils	Moderate
Ecological	Native Fish Conservation Areas	High
	Guadalupe Bass Fish Priority Areas	High
	Mussel Priority Areas	Moderate
	Terrestrial Fauna Ecological Index	High

Model Concepts

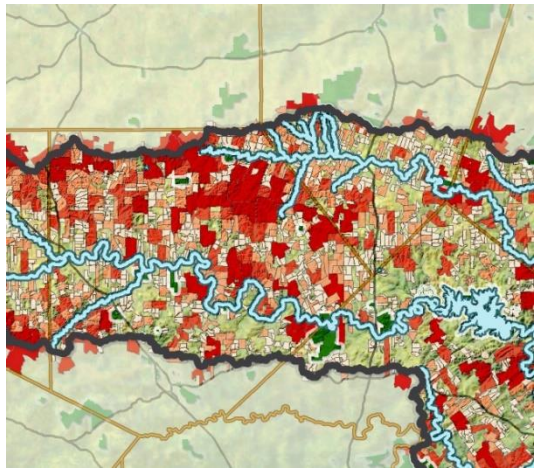
General Look at How a Procedural Model Works

Conservation Resources to Land Value Index (not all resources shown, just examples)

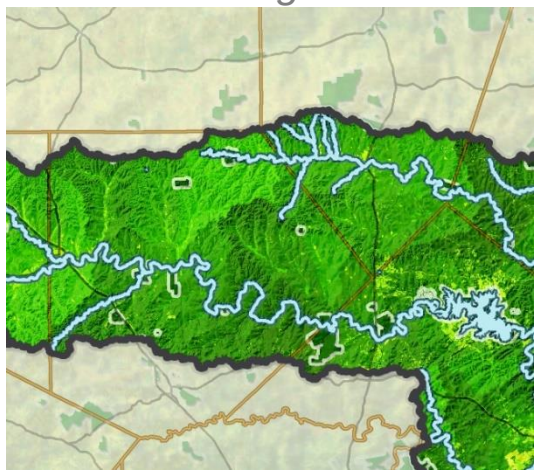
Aquifer Recharge



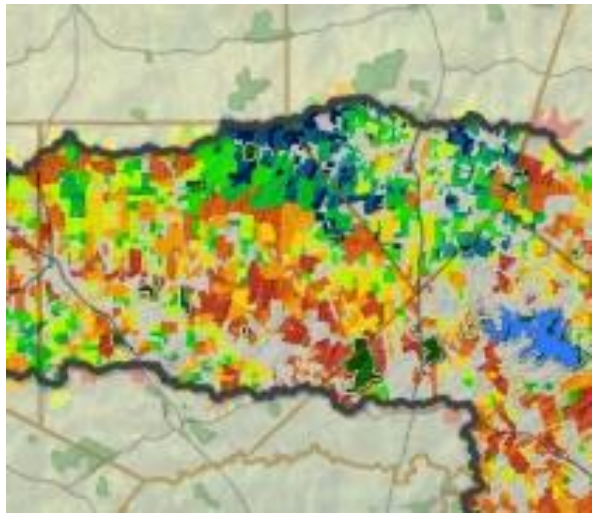
Parcel Size

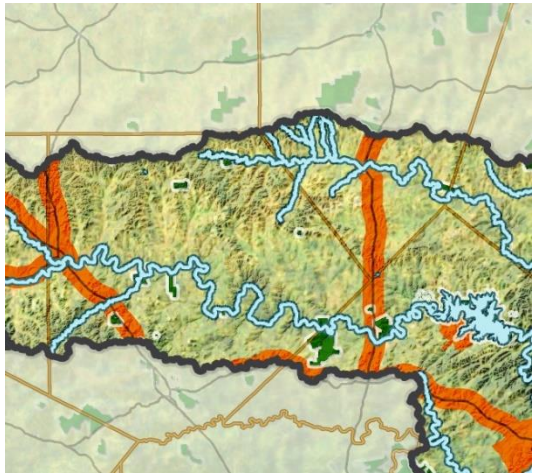


Fauna Ecological Index

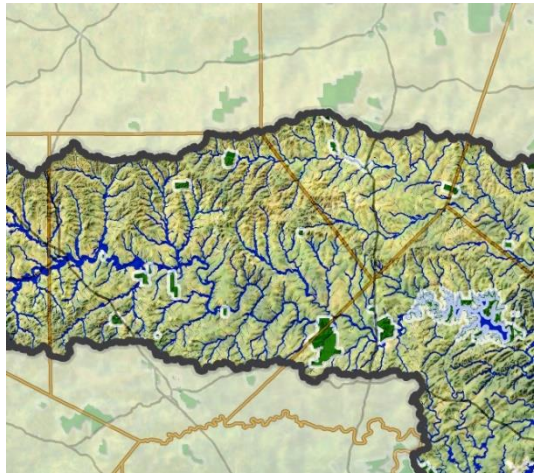


Suitable Sites for Conservation

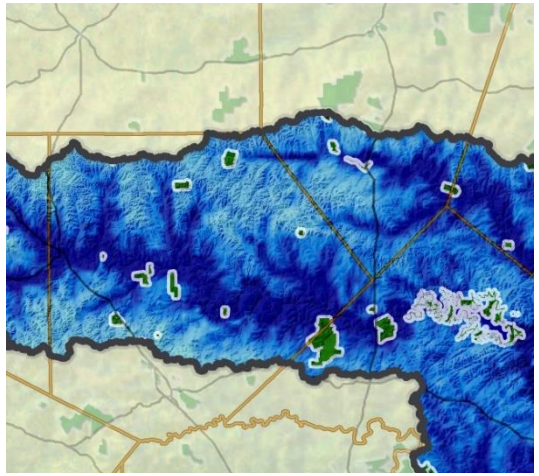




Development Corridors

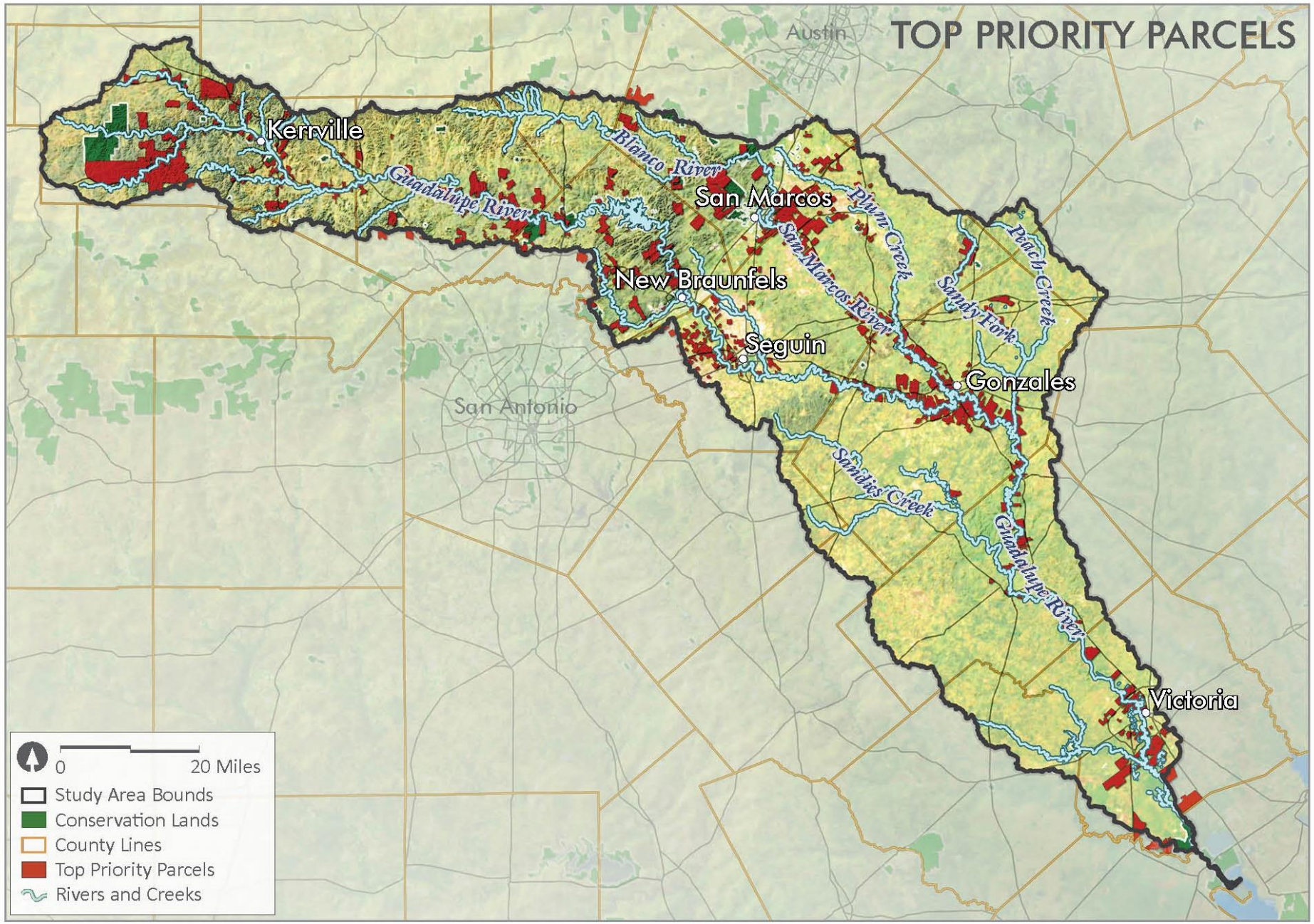


Riparian Areas



Guadalupe Bass Habitat

Final Conservation Scenario: Top Priority Areas

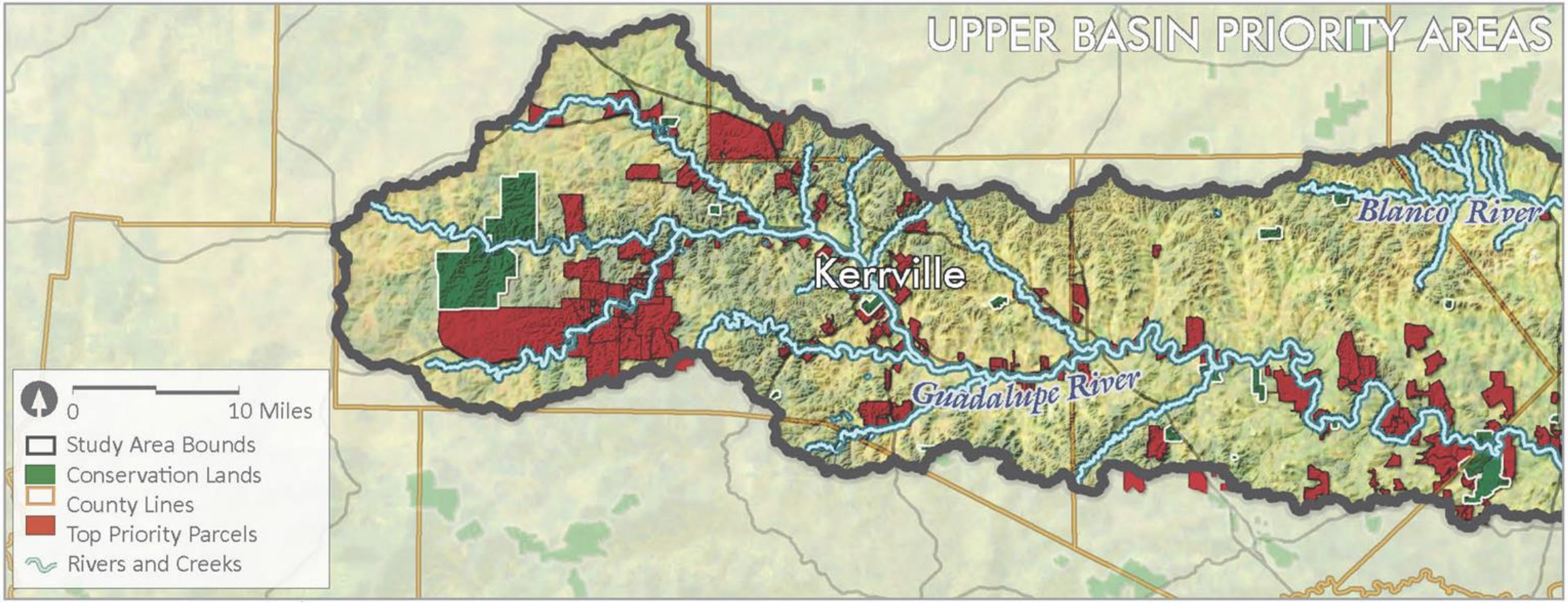


Final Conservation Scenario: Top Priority Areas

Key Resources:

- Parcel Size and Proximity to Conserved Land
- Wildlife, Mussel, and Guadalupe bass habitat
- Riparian Corridors

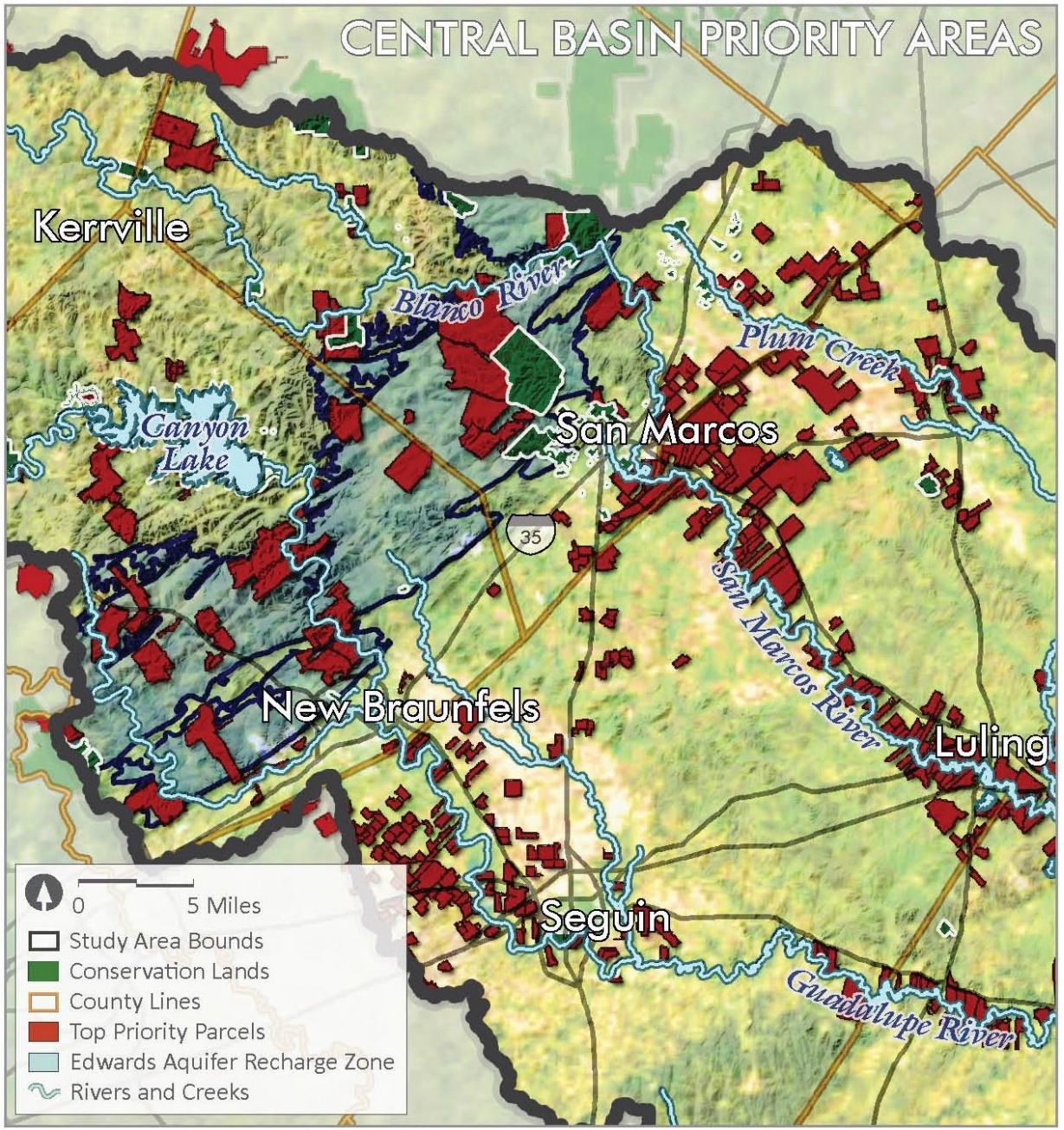


Final Conservation Scenario: Top Priority Areas

Key Resources:

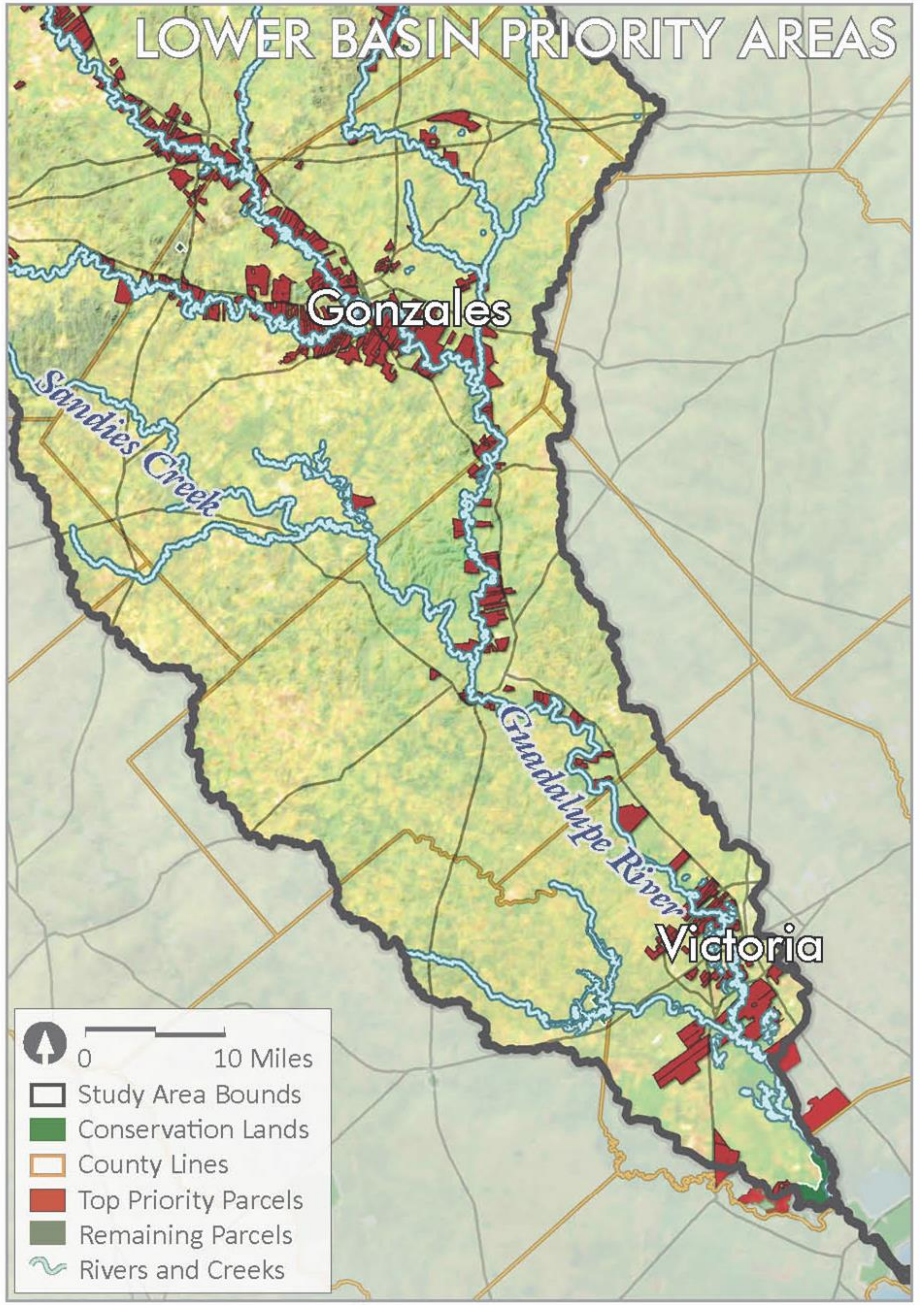
- Development Corridors
- Aquifer Recharge Zones
- Wildlife habitat
- Major Spring Buffers
- Riparian Corridors

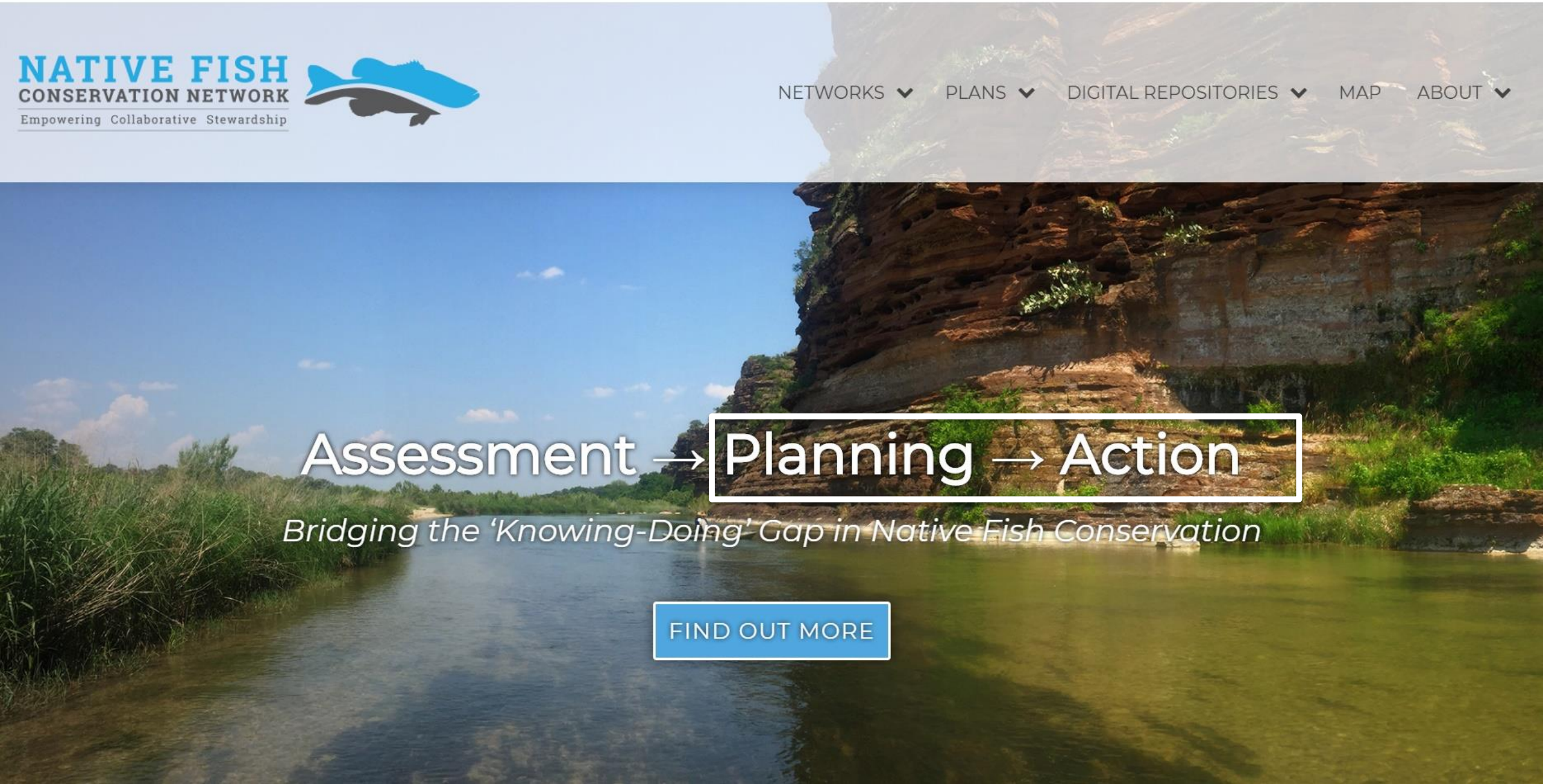


Final Conservation Scenario: Top Priority Areas

Key Resources:

- Mussel and Guadalupe Bass habitat
- Development Corridors
- Riparian Corridors
- Prime Farmland Soils





Conservation action plan and science agenda from stakeholder-led workshops

Additional conservation action is needed in the Guadalupe River Basin to address historic habitat changes, and protect its species-rich flora and fauna including the Guadalupe Bass (Micropterus treculii). Conservation planning is a strategic and needed response to the impacts of ongoing habitat alteration throughout central Texas, especially considering the substantial land fragmentation projected in the coming decades.

This study aims to bring local, state and federal agencies and non-governmental conservation organizations (e.g., land trusts, watershed alliances) together to create an integrated and focused conservation plan for the Guadalupe River Basin by integrating best practices in innovative ways that allow for greater buy-in from the array of conservation entities working in the Basin.

PROJECT TITLE

A Framework for Conservation in the Guadalupe River: Towards Collaborative Stewardship through Strategic Geographic Prioritization and Stakeholder Coordination

INTERACTIVE NFC PROJECT MAP

SUBMIT YOUR CONSERVATION PROJECT HERE

This form will feed a project planning spreadsheet that will facilitate sorting, prioritization, and further discussions of projects.

Open Submission Form