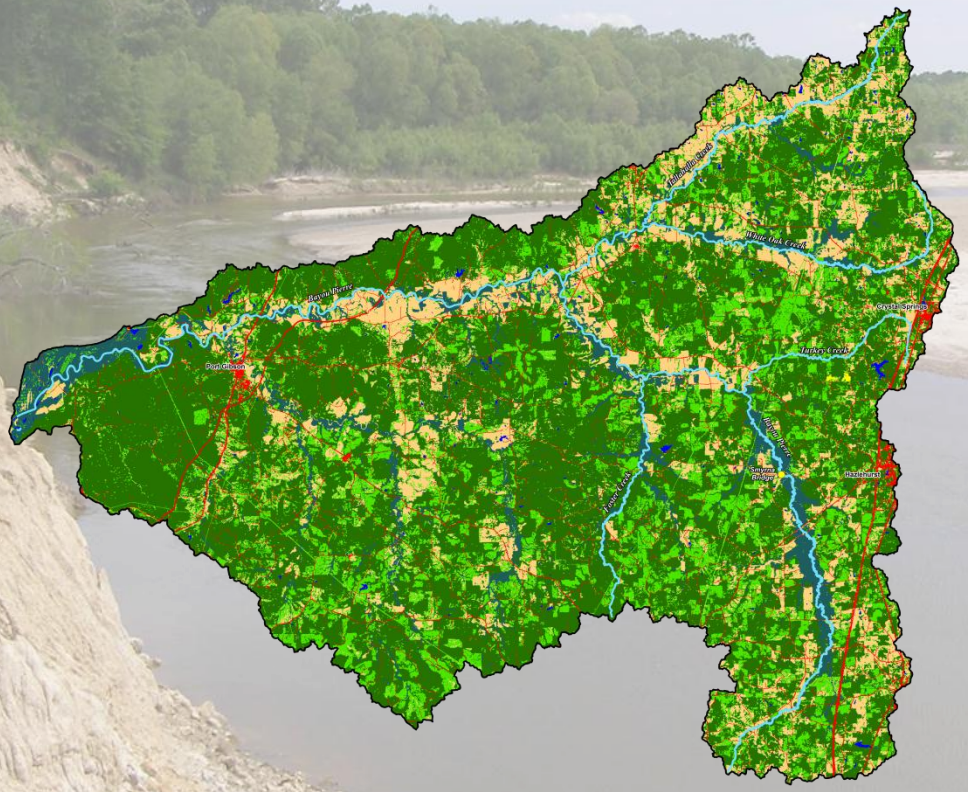
Land Cover in the Bayou Pierre Watershed

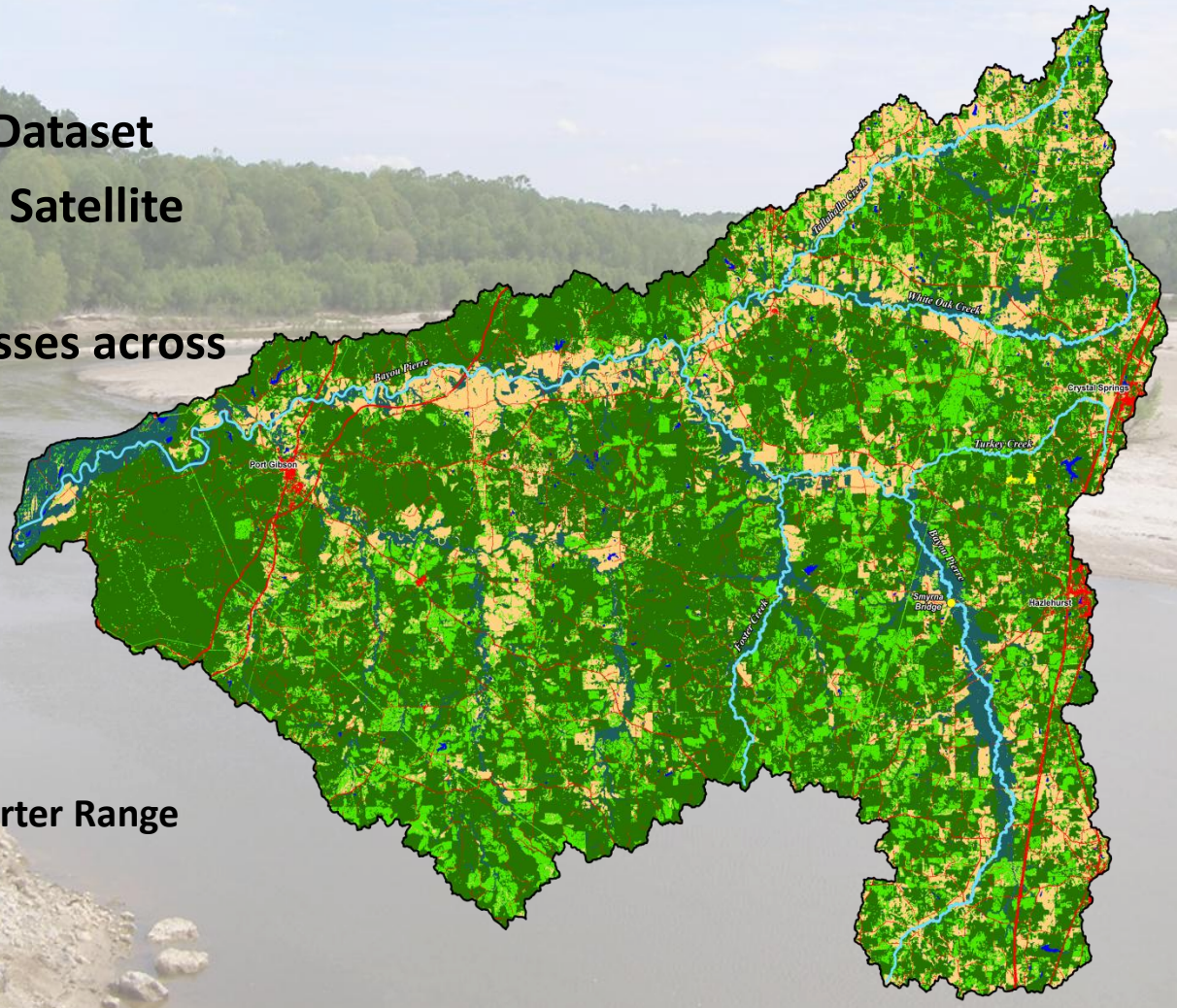


Ryan Theel
U.S. Fish & Wildlife Service
Jackson, MS

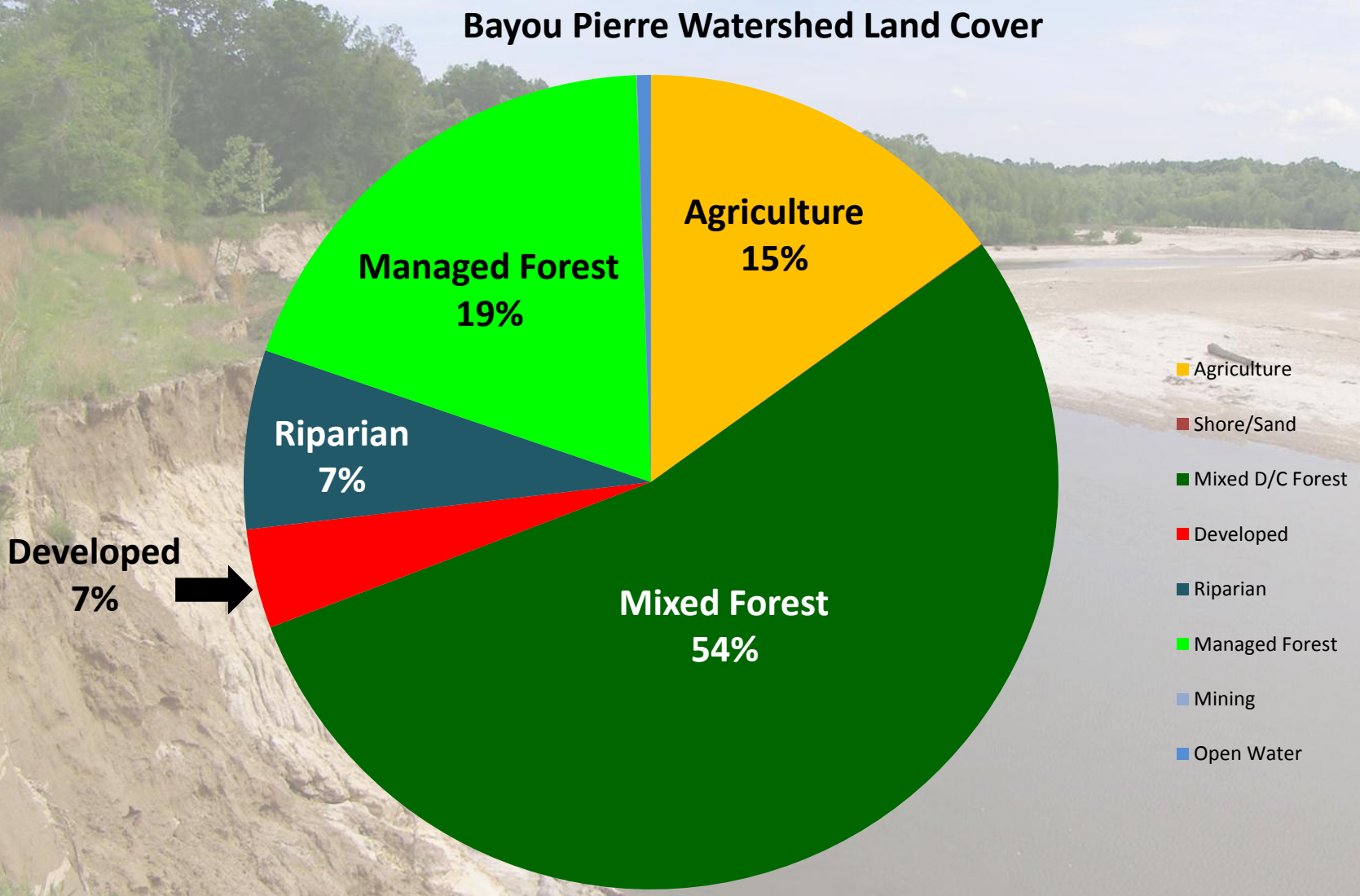
Bayou Pierre Watershed: Land Cover Overview

- 2001 Southeastern GAP Dataset
- Uses 30m x 30m Landsat Satellite Imagery
- Standard Land Cover Classes across the Southeast

- Bayou Pierre
- 3 Analyses done
  - Entire Watershed
  - 1 Mile River Buffer
  - 1 Mile River Buffer for Darter Range



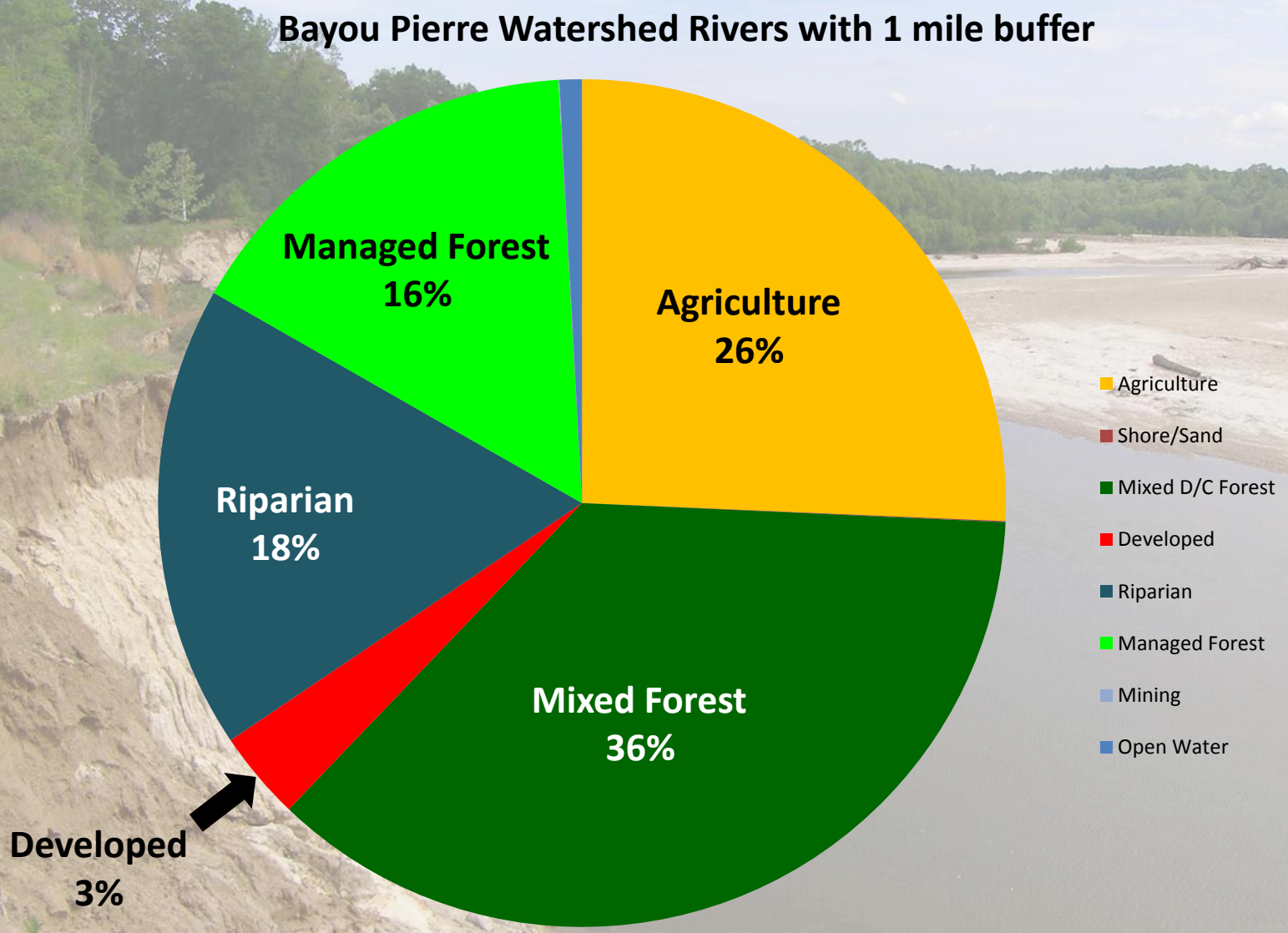
Bayou Pierre Watershed: Watershed Wide Land Cover



Bayou Pierre Watershed: 1 Mile River Buffer

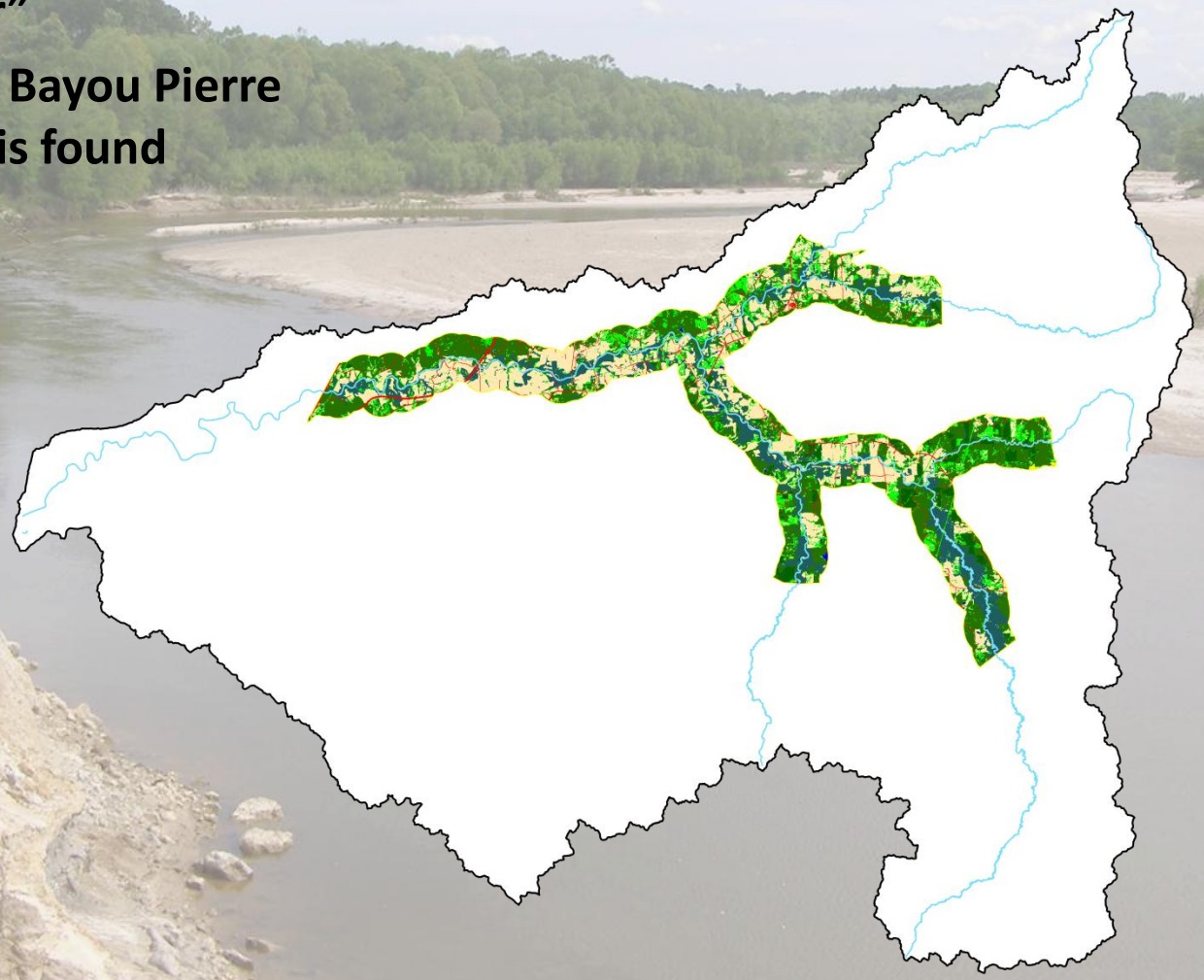
- 1 mile buffer around Bayou Pierre Watershed Rivers
- Better idea of immediate impacts to the watershed's streams & rivers

Bayou Pierre Watershed: 1 Mile River Buffer

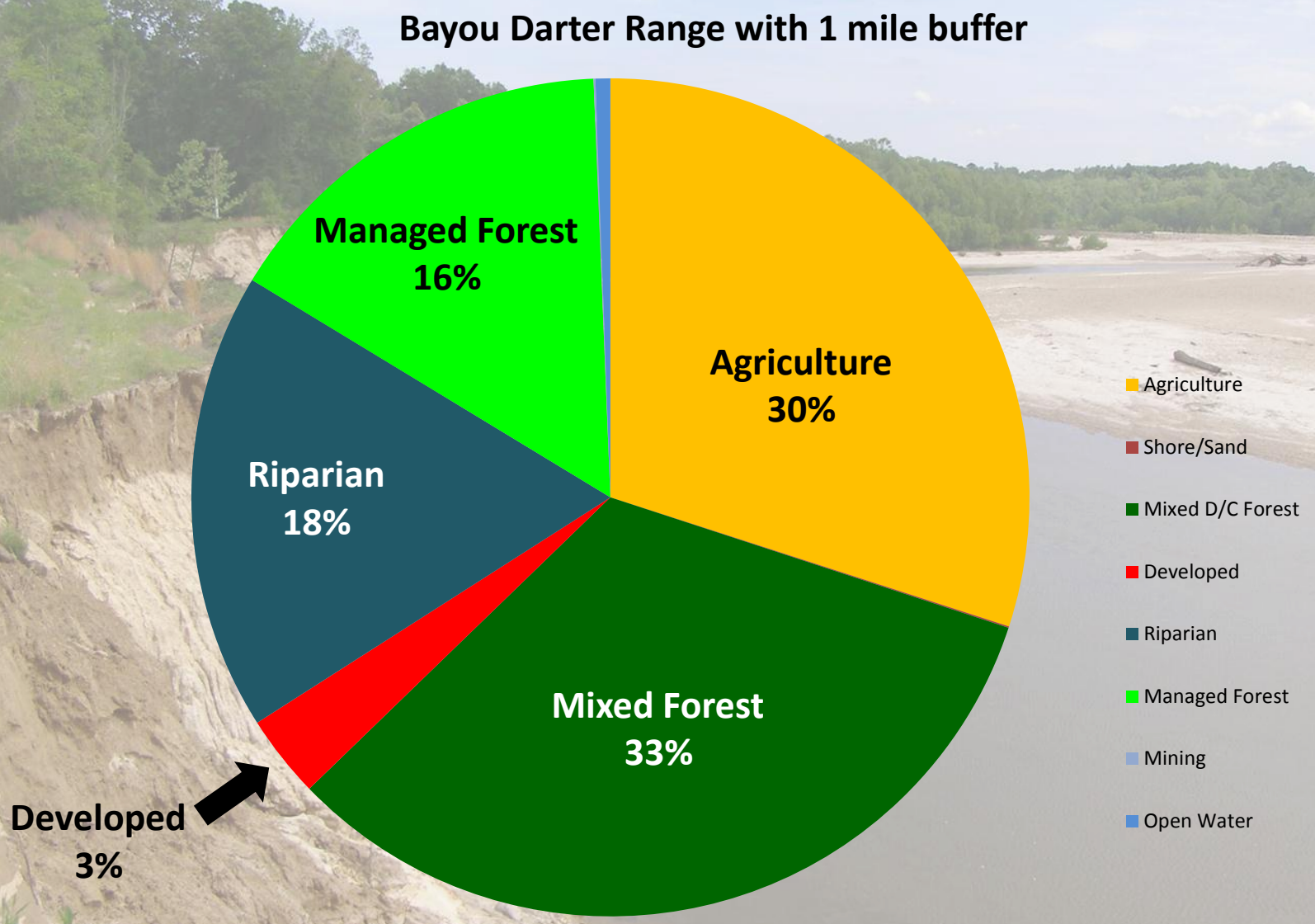


Bayou Pierre Watershed:
Bayou Darter Range 1 Mile Buffer

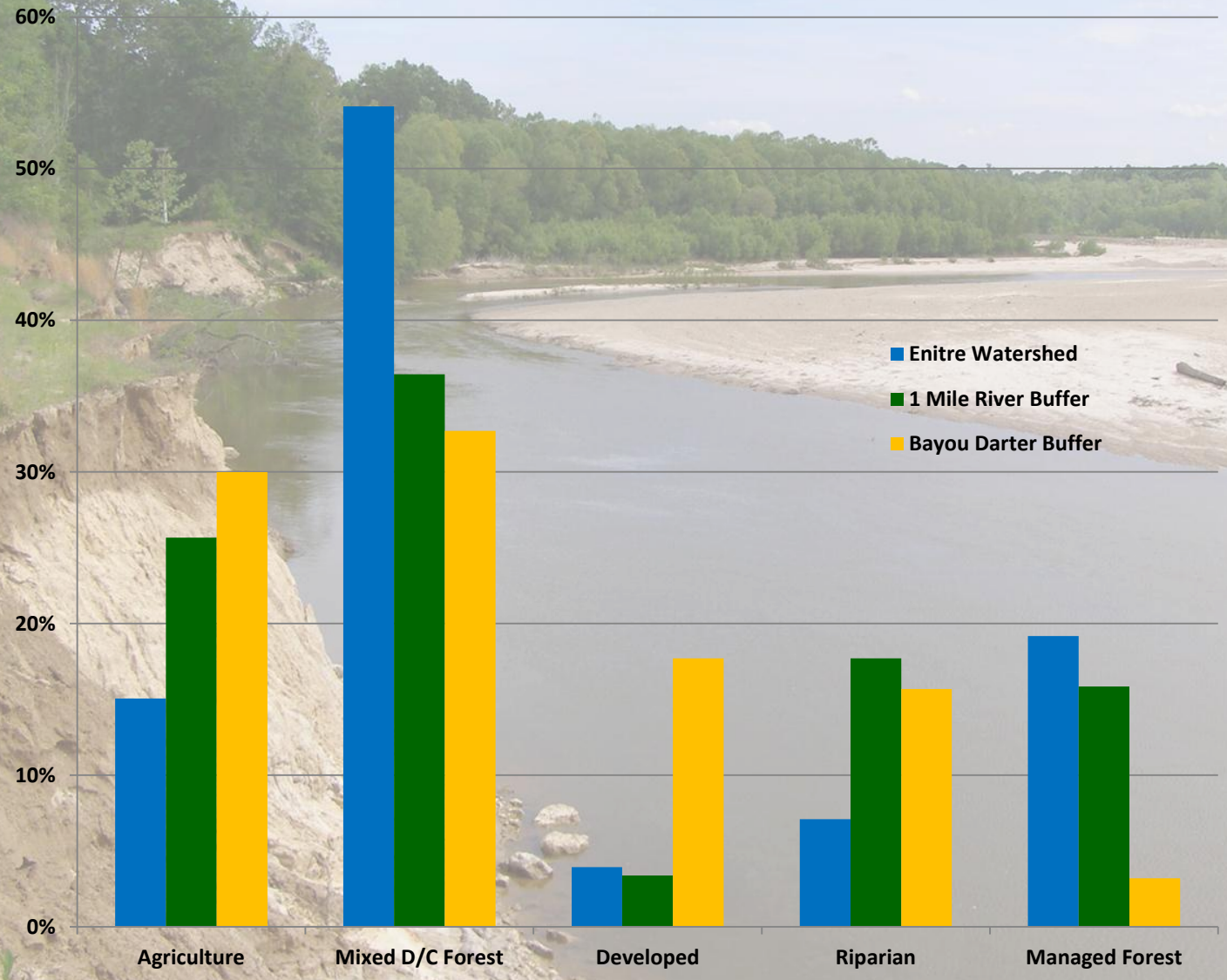
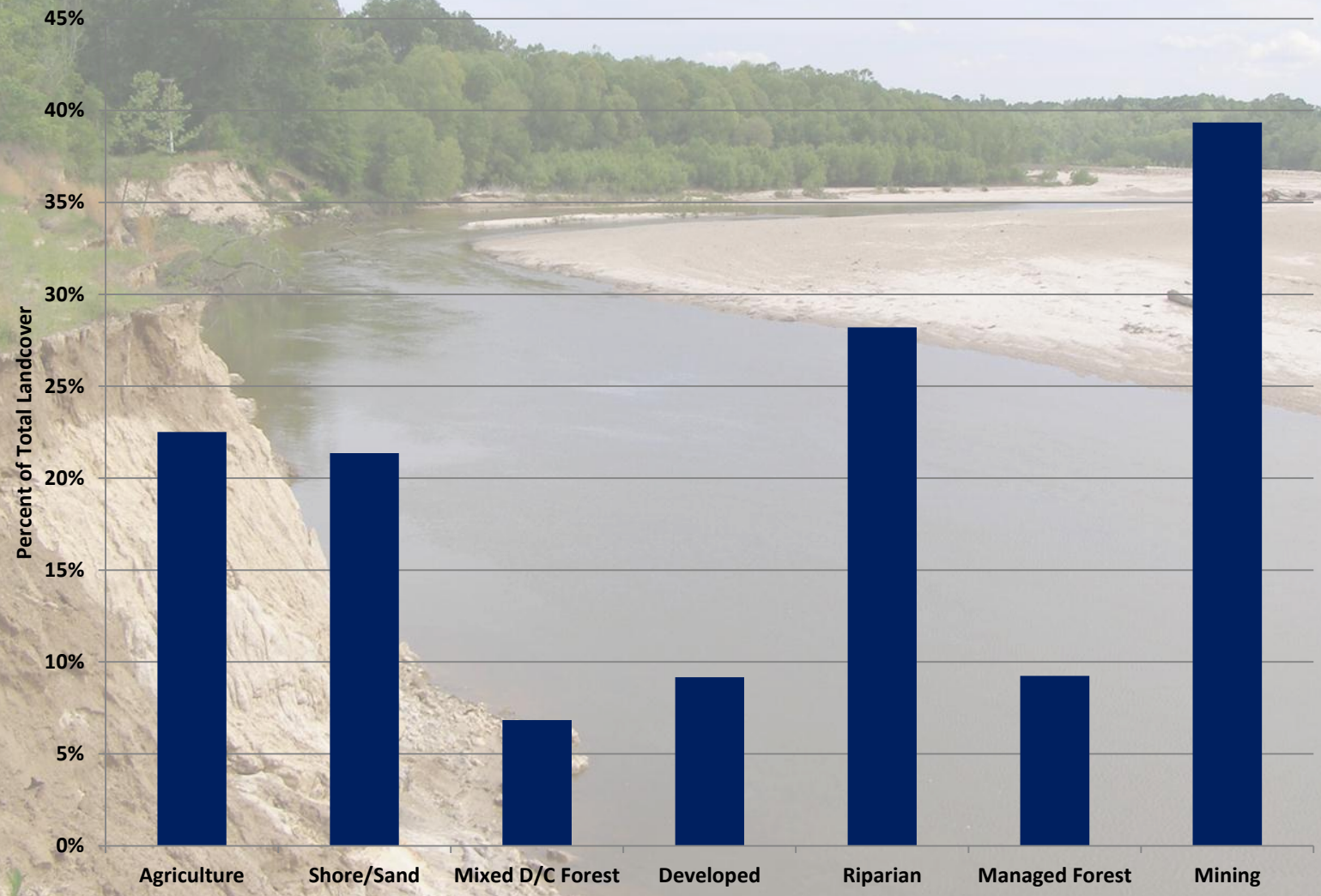
- **"Bayou Darter Buffer"**
- **1 mile buffer around Bayou Pierre Rivers where Darter is found**



Bayou Pierre Watershed:
Bayou Darter Range 1 Mile Buffer



Bayou Pierre Watershed: Buffer Comparison



Bayou Pierre Watershed: Percent Land Cover Darter Buffer vs. Watershed Wide