Biology

Biodiversity

Habitat Diversity

MEAN HABITAT USE

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Analysis of Existing Biological Data

Bonner, TSU
2007

![Graph showing relative abundance over time with the trend line](image-url)
Winners

Thomas, Bomar, and Whitfield 2007

Thomas, Bomar, and Whitfield 2007

Thomas, Bomar, and Whitfield 2007
Losers
Introduced Species

[Images of introduced species: fish]
Fish Sampling
Summary

- San Antonio River – 41 fish species (9 introduced)
- Cibolo Creek – 27 fish species (5 introduced)
- Species of interest
Mussel Survey

Karatayev & Burlakova, SFASU
2007
Lower San Antonio River
Biological Objectives

Determine and maintain flows necessary to support:

- native species and biological communities known to occur in the river and riparian zones
- key aquatic habitats
Potential Indicators

Native Species Richness - the number of species or taxa

Relative Abundance – the number of organisms of a particular species as a percentage of the total community
Taxa

Fishes
- Flow sensitive species
- Sport fishes
- Prey species
- Imperiled species
- Intolerant species
Other Taxa

- Benthic invertebrates
- River prawn
- Mussels
- River and riparian plants
- Other vertebrates
Instream Habitat

- Habitat Quality and Quantity for Key Species
- Mesohabitat Area and Diversity
Riparian Habitat

Vegetation
- Age class distribution of riparian plant species
- Riparian species richness and diversity
- Density
- % Canopy cover
Riparian Habitat

Soils
- Riparian soil types

Hydrology
- Gradient of inundation
- Base flow levels