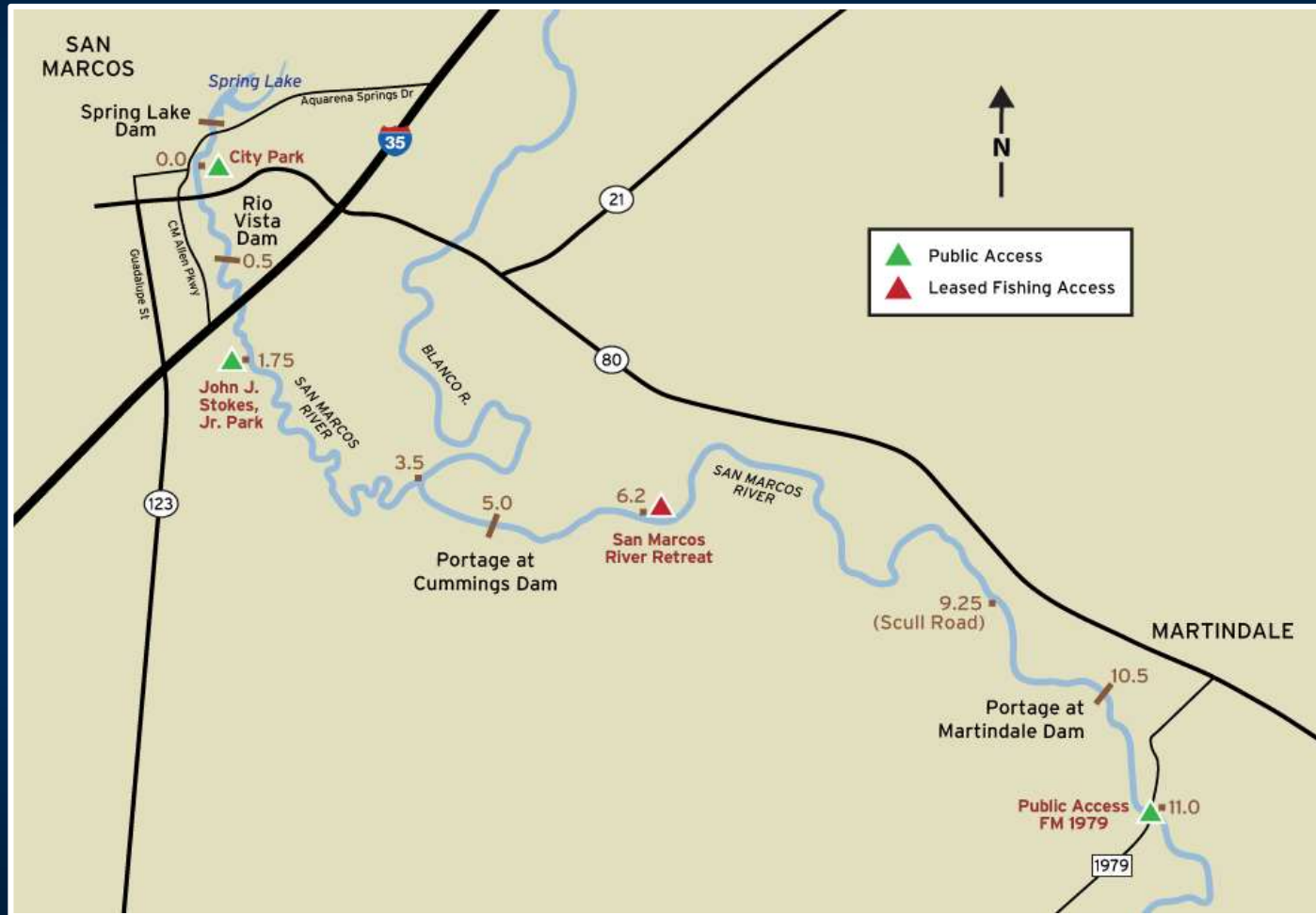


San Marcos River RACA Site



Baseline Fish Community Assessment

- Sampling took place March 16, 2016
- ½ mile study reach adjacent to SMRR
- Fish sampling via boat electrofishers, seines, and hoop nets

Fish Community Assessment Preliminary Results

- 764 individuals collected, 26 species
- No threatened, endangered species
- 4 SGCN species
 - Guadalupe Bass, Guadalupe Darter, Roundnose minnow (unnamed), and Texas Shiner
- 3 non-native species
 - Common Carp, Redbreast Sunfish, and Suckermouth Catfish

Fish Species Collected

- Mexican Tetra
- Central Stoneroller
- Blacktail Shiner
- Common Carp
- Unnamed Roundnose Minnow
- Gizzard Shad
- Orangethroat Darter
- Western Mosquitofish
- Largespring Gambusia
- Rio Grande Cichlid
- Suckermouth Catfish
- Spotted Gar
- Redbreast Sunfish
- Bluegill
- Longear Sunfish
- Redear Sunfish
- Largemouth Bass
- Guadalupe Bass
- Gray Redhorse
- Texas Shiner
- Mimic Shiner
- Texas Logperch
- Guadalupe Darter
- Bullhead Minnow
- Sailfin Molly
- Flathead Catfish



Preliminary IBI Results

San Marcos River @ SMRR, Caldwell Co.					
Collector: East, Robertson, Stevens				March-16	Ecoregions 27,29,32
Metric Category	Intermediate Totals for Metrics		Metric Name	Raw Value	IBI Score
	Drainage Basin Size (km ²)	1352			
Species Richness and Composition	Number of Fish Species	26	Total Number of Fish Species	26	5
	Number of Native Cyprinid Species	6	Number of Native Cyprinid Species	6	5
	Number of Benthic Invertivore Species	4	Number of Benthic Invertivore Species	4	5
	Number of Sunfish Species	4	Number of Sunfish Species	4	5
	Number of Individuals as Tolerants ^a	46	% of Individuals as Tolerant Species ^a	6.0	5
Trophic Composition	Number of Individuals as Omnivores	41	% of Individuals as Omnivores	5.4	5
	Number of Individuals as Invertivores	420	% of Individuals as Invertivores	55.0	3
	Number of Individuals as Piscivores	12	% of Individuals as Piscivores	1.6	1
Fish Abundance and Condition	Number of Individuals (Seine)	425	Number of Individuals in Sample		4
	Number of Individuals (Shock)	330	Number of Individuals/seine haul	42.5	3
	Number of Individuals in Sample	764	Number of Individuals/min electrofishing	23.9	5
	# of Individuals as Non-native species	39	% of Individuals as Non-native Species	5.1	1
	# of Individuals With Disease/Anomaly	3	% of Individuals With Disease/Anomaly	0.4	5
			Index of Biotic Integrity Numeric Score:		44
			Aquatic Life Use:		High
This data should be incorporated with water quality, habitat, and other available biological data to assign an overall stream score.					

Snapshot assessment of the fish community

TEXAS

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