

Invasive Species Mitigation

September 25, 2020



Urban Stream Syndrome

- General ecological degradation
 - Water quality impairments
 - Habitat degradation
 - Decrease in intolerant taxa



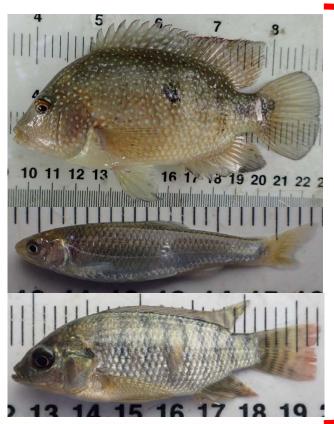


Urban Tolerant





Rural Intolerant







Active Removal

- Tilapia and Armored Catfish are two of our most threatening invaders
- These species are actively removed





Evolution of the Mission Reach -Passive Removal-

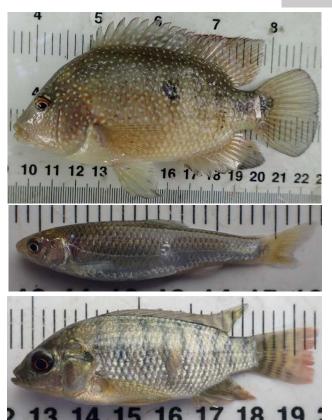


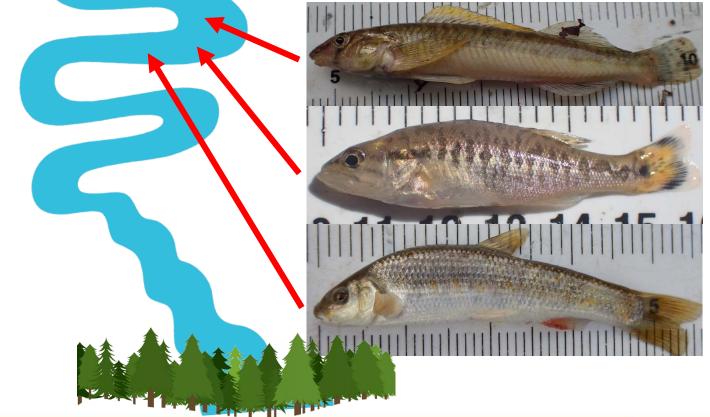


Urban Tolerant



Rural Intolerant





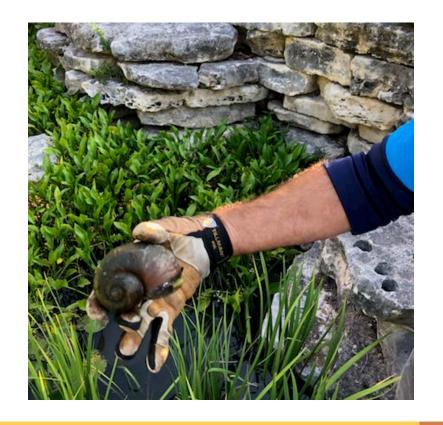


- Began seeing them around October 2019
- Permit obtained December 2019
- Upper San Antonio River draining 2020





- Voracious eaters of plant material
- Especially damaging in areas such as the Museum Reach





- Vegetation plays a very important role in aquatic ecosystems
 - Food source for lower trophic levels
 - Nursery habitat for fish
 - Habitat for bugs and other critters





- Clutch size up to 2,000 eggs
- Females can each lay up to 20 clutches per year
- Effluent heavy water warmer for longer





- SARA and its contractor have removed 2,732 egg cases and 106 adults as of 9/19/2020
- Video for Watershed Warriors
- Proposed change to rule that would ease restrictions on handling these animals





Questions?

