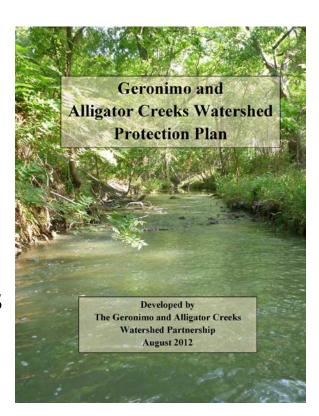
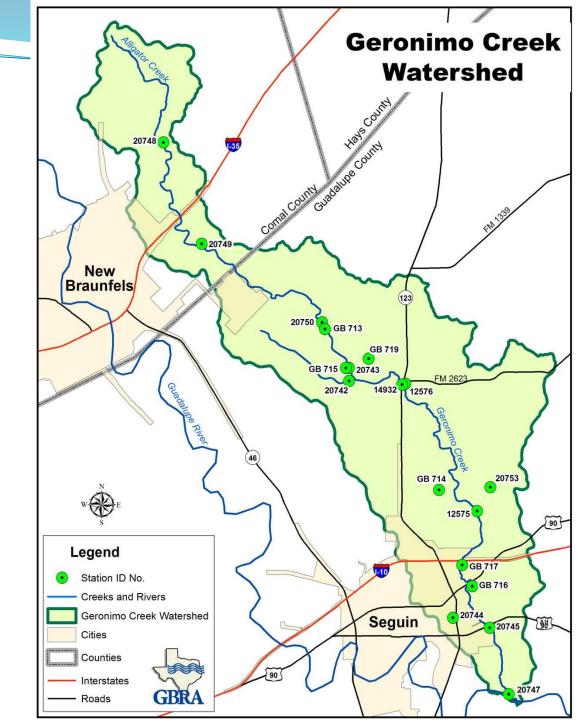


# What is the Watershed Protection Plan?

- The purpose is to restore and protect the creeks
- It was developed and managed through partnerships among federal, state, county, and local groups and organizations
- It is a summary of voluntary activities that can be done to reduce bacteria and nitrogen from entering the creeks



- Rapidly urbanizing
- Creeks are spring fed and from rainfall runoff
- There are no permitted discharges until near the Guadalupe River



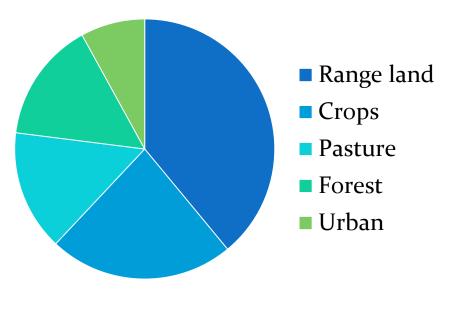
# Where is it coming from?

- The bacteria is coming from nonpoint sources
- Potential sources identified in the WPP
  - Urban sources such as dogs and urban runoff
  - Agricultural sources such as livestock, feral hogs, and wildlife
  - Failing septic systems

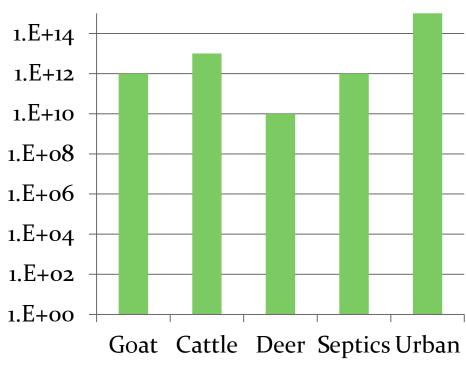




#### **Land Use % Cover**



#### Potential *E. coli* Loading



• In terms of loading, urban runoff was higher than all the other sources, but occupies the lowest land cover %.

#### What is being done?

- TCEQ Investigation
- SWCD Field Technician
- Septic System Workshops
- Lone Star Healthy Streams
- Annual Creek Clean Up
- LID at ILSOLC
- Revegetating Geronimo Creek
- Feral Hog Control



## Issues along the creek

 TxDOT contractor working under Alt. Hwy 90, working without stormwater controls in place



#### Investigation

- Contacted the TCEQ San Antonio Field Office
- A Field Investigator came out and did an inspection
- Contractor was cited for improper storm water controls



#### Field Technician

- Cris Perez, is an employee of the Comal-Guadalupe SWCD
- He is a field technician who works with agricultural producers to better manage runoff from their operations



### Homeowner Septic System Maintenance Class

- Class is conducted in the Spring and Fall past 5 years
- 6 hr in-depth class on aerobic systems
- Guadalupe County homeowners with aerobic systems are required to have a maintenance contract for first 2 years of a new system
  - After that time, Guadalupe County homeowners can be certified or must have a maintenance contract



# Lone Star Healthy Streams Workshop

- Goal is protection of Texas waterways from bacterial contamination from livestock and feral hogs
- Half day workshops for area agricultural producers
- Coming May 24, 2018



#### Annual Creek Clean Up Event

- Established the first event in 2013 on the first weekend in April
- In 5 years, over 980 volunteers have removed 14,950 pounds of trash and debris
- The 2017 event removed trash from 27 locations covering 17 miles of roadway and creek bank



#### LID Workshops

 Introduce Low Impact Development structures and practices to decision makers, students, and public

Combination of classroom presentations and outdoor

demonstrations





#### Why LID?

- Reduce stormwater runoff
- Reduce pollution in runoff
- Reduce impact to existing water supply
- Improved aesthetics over traditional construction techniques
- Restore and protect aquatic habitat through reduced erosion

















Revegetating Geronimo Creek















### Feral Hog Grant

- Met with Guadalupe County Commissioner's Court
- Moving forward with application to Wildlife Services
- Bounty Program and trapping supplies



## Feral Hog Control

- Feral Hog Education Program Assistant focuses on feral hog management in the watershed
- The position works directly with landowners to reduce hog populations in the watershed



