

# Technical Study Summaries: Lower Sabine River Hydrologic Data



# Lower Sabine River

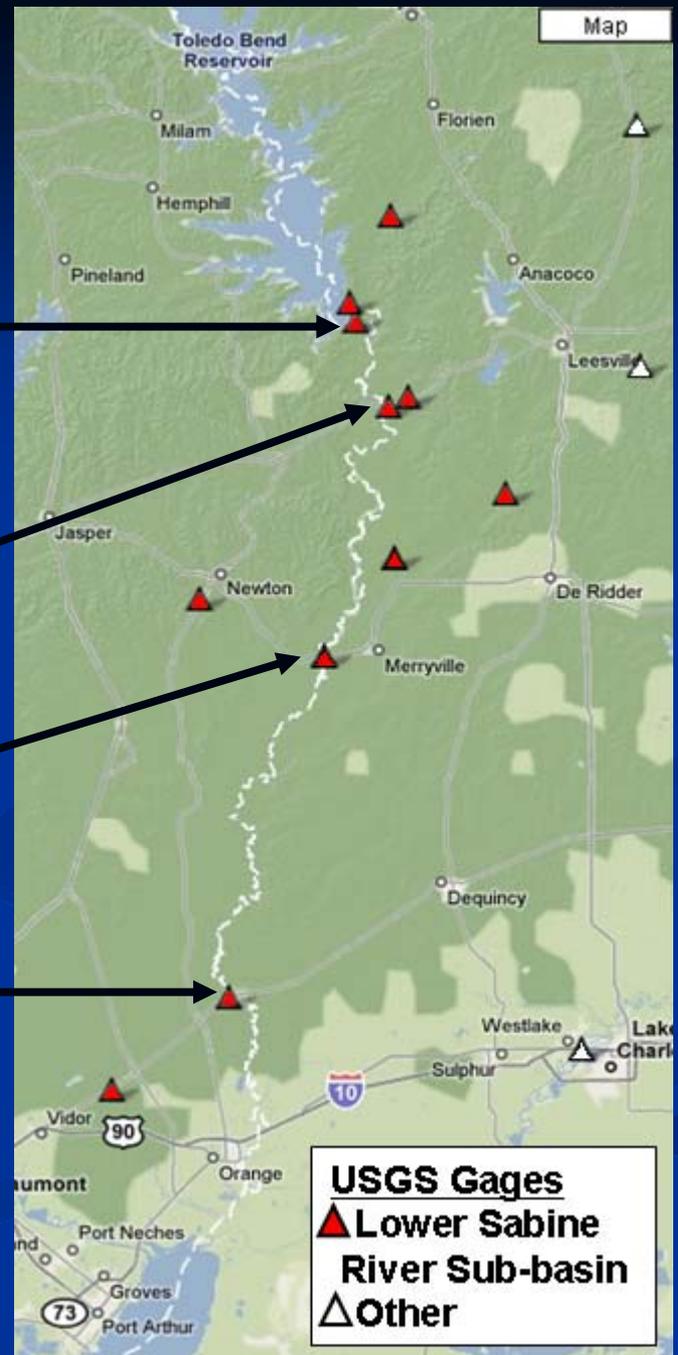
# USGS Streamgaging Data

Toledo Bend

Burkeville

Bon Weir

Ruliff



# USGS Streamgaging Data



**Median of daily discharge values  
USGS gage #08030500, Sabine River at Ruliff, TX**

# EXPLANATION

## Outcrop of major aquifer



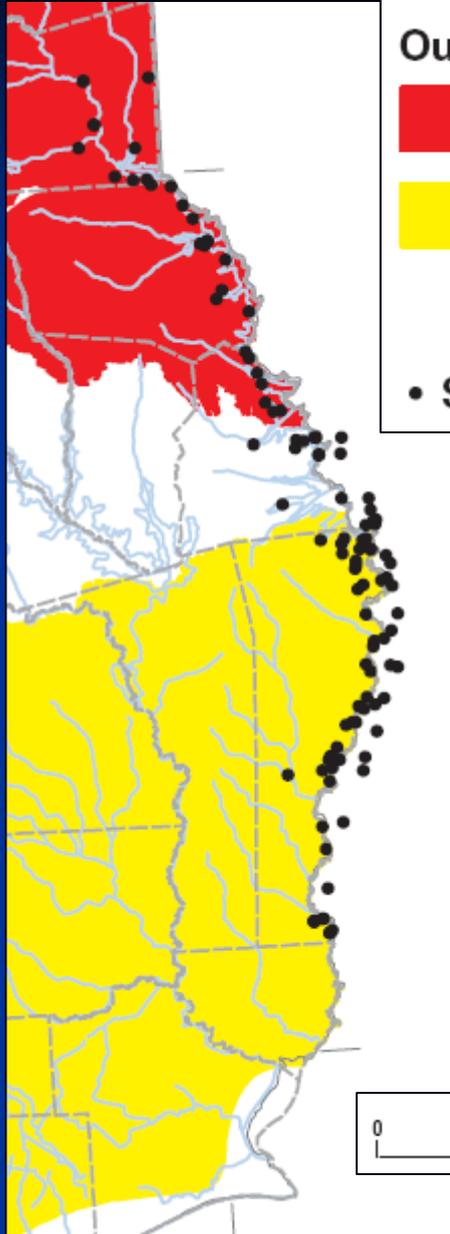
Carrizo-Wilcox



Gulf Coast

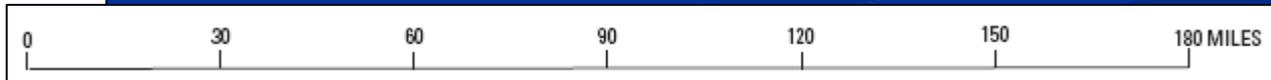
Aquifer outcrops from  
Ashworth and Hopkins (1995)

- Streamflow-measurement site

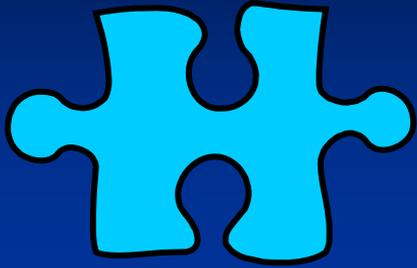


# Results of Streamflow Gain-Loss Studies in Texas

USGS (2002)  
(Original data from 1963)



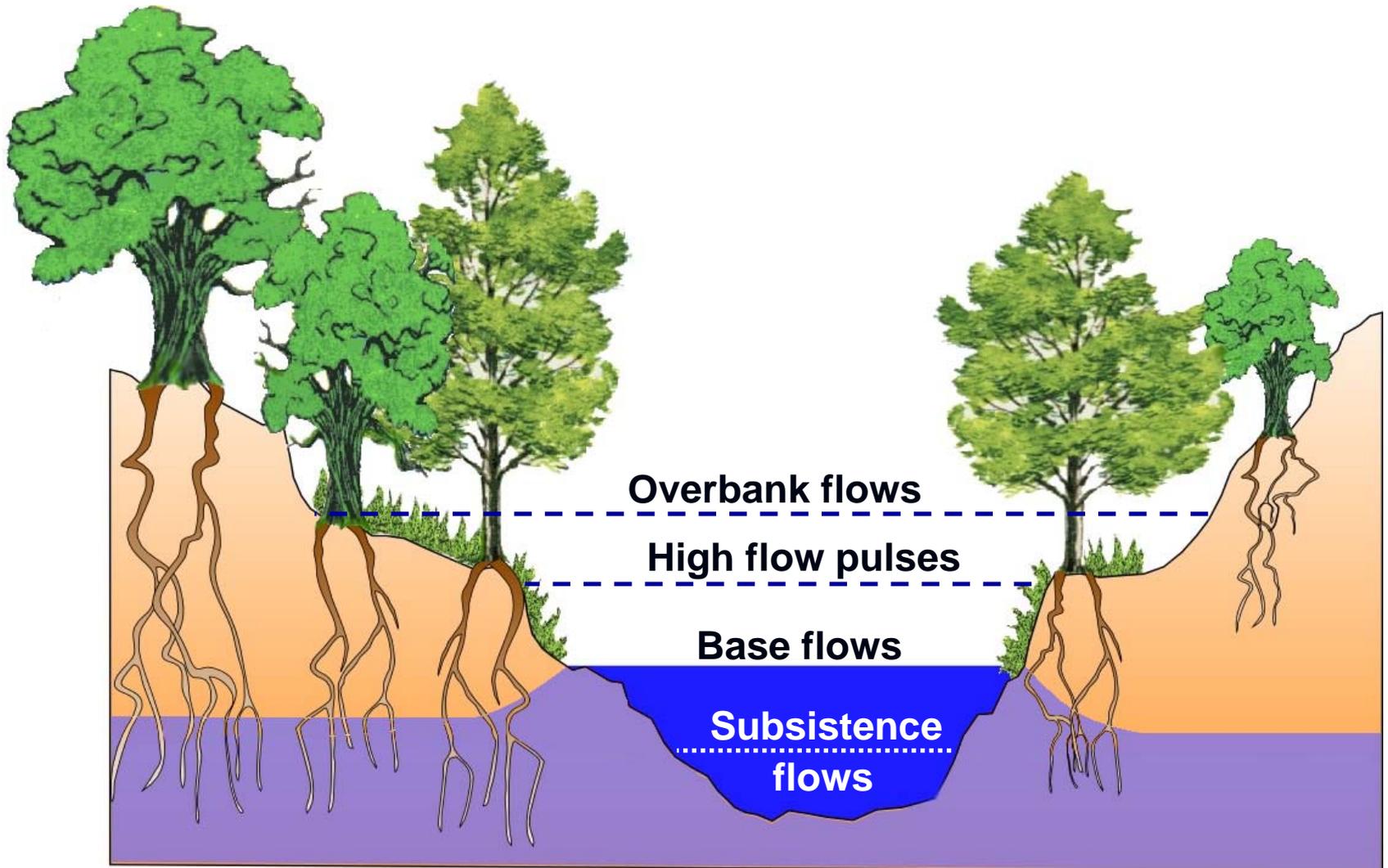
# Statewide Objective



## Hydrology & Hydraulics

- Characterize system hydrology and hydraulics

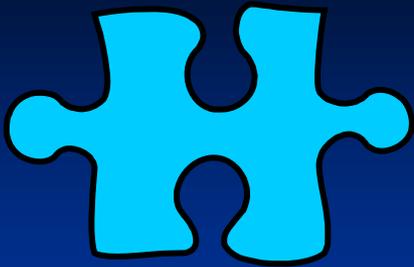
# Statewide Conceptual Model



# Lower Sabine River

## Objectives

### Hydrology & Hydraulics

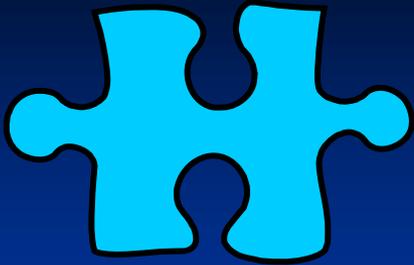


- **Manage flow regimes which accommodate human needs while sustaining river and floodplain ecosystems**

# Lower Sabine River

## Indicators

### Hydrology & Hydraulics



- **Flow regime components**
  - **Overbank flows**
  - **High flow pulses**
  - **Base habitat flows**
  - **Subsistence flows**
- **Natural and current variability**