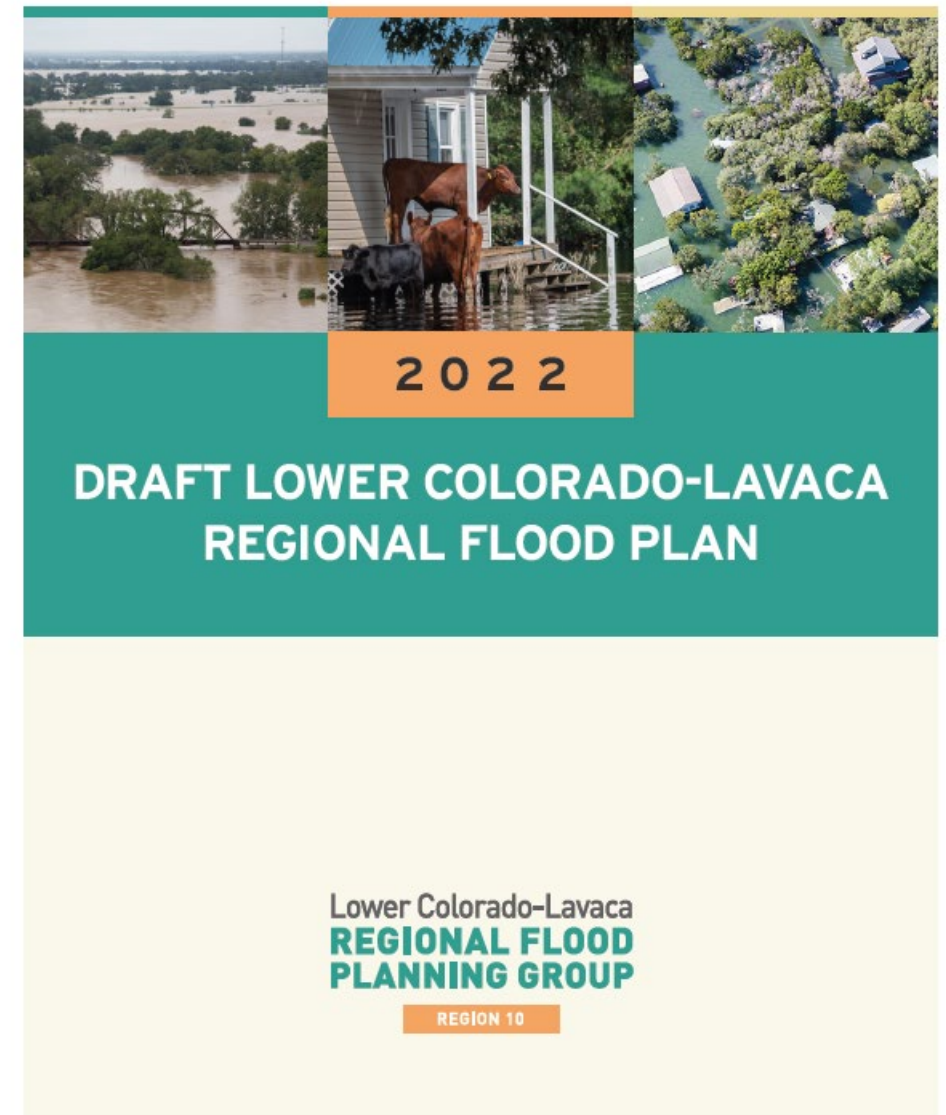


# LOWER COLORADO – LAVACA REGIONAL FLOOD PLAN OVERVIEW

**Matt Hollon**, COA RFPG Representative

Austin Water Oversight Committee  
October 19, 2022

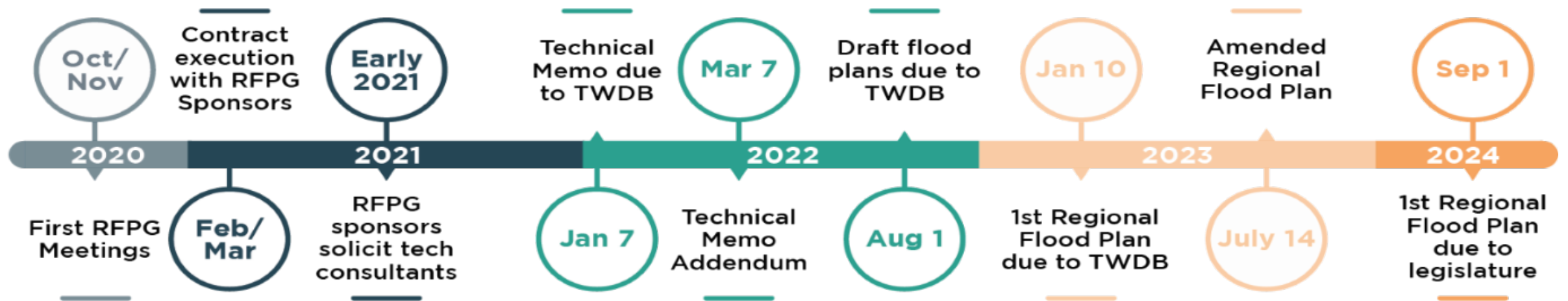


Submitted by the Lower Colorado-Lavaca Regional Flood Planning Group  
to the Texas Water Development Board | August 1, 2022

*Modified from Halff Associates RFPG Executive Summary presentation, September 15, 2022*

# REGIONAL FLOOD PLANNING PROCESS

- Texas Senate Bill 8 (2019) directed the creation of a State Flood Plan to:
  - Prepare for and respond to flood conditions, protect against loss of life and property
  - Guide state and local flood control policy
- State Flood Plan: will be prepared by TWDB based on 15 Regional Flood Plans
- Similar approach used in State water supply planning for over 20 years



TWDB = Texas Water Development Board

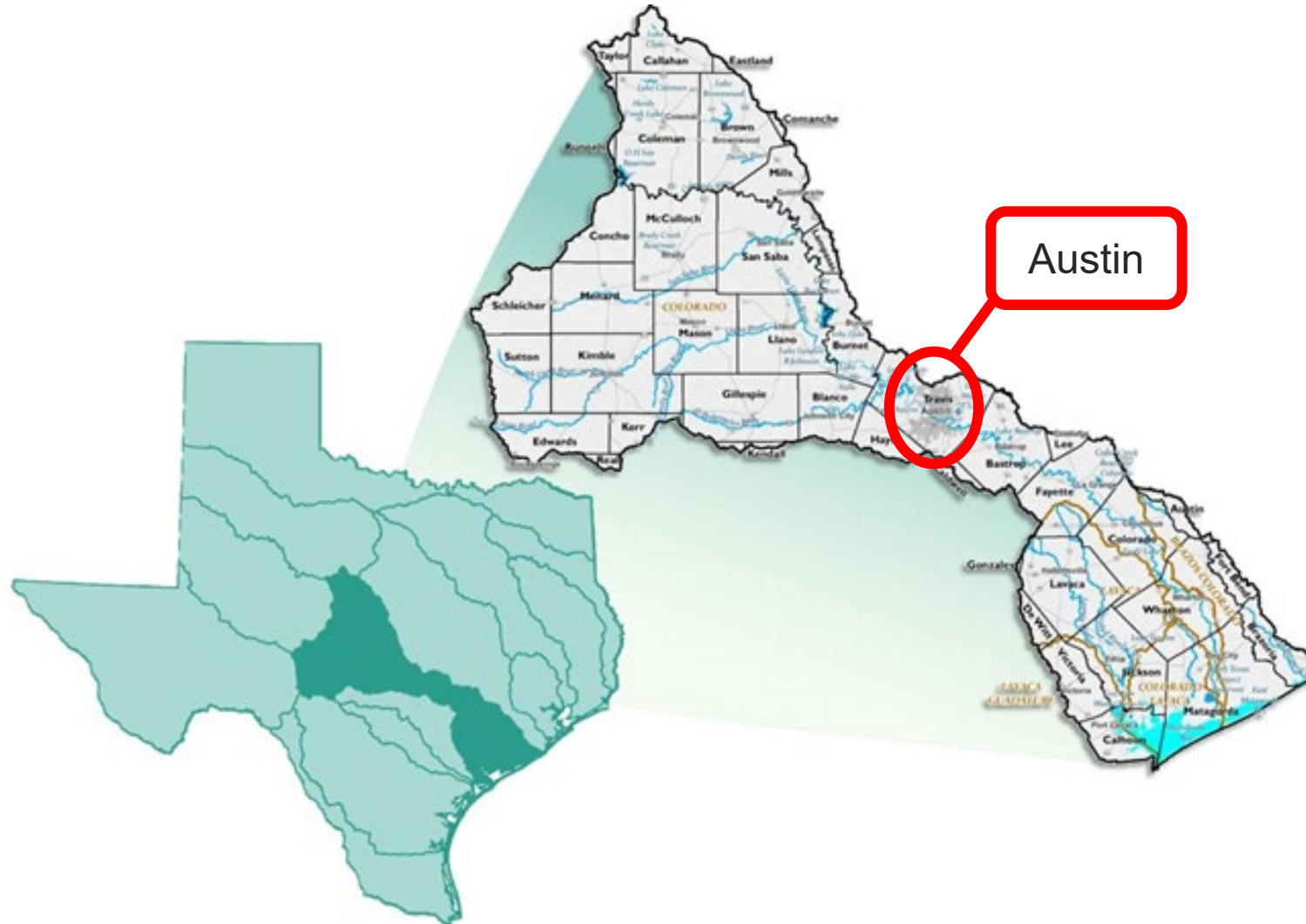
# WHO IS PREPARING THE REGIONAL FLOOD PLANS?

- 15 flood planning regions as designated by TWDB
- Each region has a Regional Flood Planning Group (RFPG)
- RFPG members represent 11 interest categories:
  - Agriculture
  - Counties
  - Electric generation utilities
  - Environmental interests
  - Industry
  - **Municipalities**
  - Public
  - River Authorities
  - Small business
  - Water districts
- Each region has a designated administrative sponsor and technical consultant





# LOWER COLORADO-LAVACA FLOOD PLANNING REGION (10)



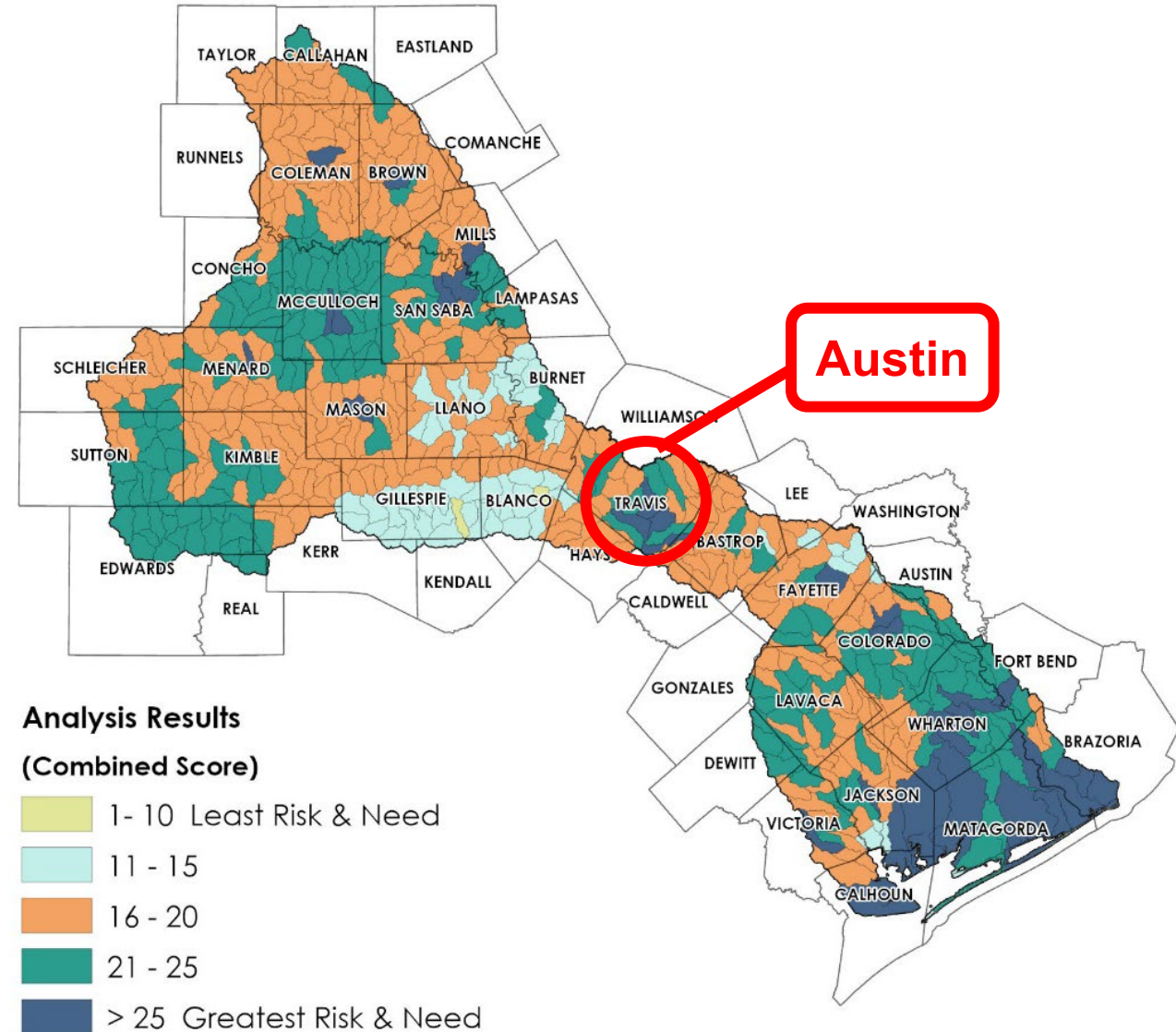
- Three river basins:
  - Lower Colorado
  - Lavaca
  - San Bernard
- 24,380 square miles
- 55,550 stream miles
- All or portions of 43 counties
- 92 municipalities
- 1.9 million people

Austin has about half of  
Region 10's population  
( ~ 1 million)

# REGIONAL FLOOD PLANNING WORK

## 13 Tasks, including:

- Hazard mapping
- Needs analysis (flood risk)
- Management practices: current and recommended
- Mitigation goals
- Flood management studies, strategies, and projects



# RECOMMENDED PROJECTS, STUDIES, STRATEGIES

5

## FLOOD MANAGEMENT STRATEGIES (FMS)

- Area-wide Low Water Crossing Improvement Programs
- Property Acquisition Programs
- Education and Outreach Initiatives
- Area-wide Flood Warning Measures
- Strengthen Regulations

151

## FLOOD MANAGEMENT STUDIES (FME)

16

Flood  
Preparedness  
Study

21

Floodplain  
Modeling and  
Mapping /  
Risk  
Identification

84

Flood  
Mitigation  
Alternatives  
Analysis /  
Feasibility  
Assessment

30

Flood  
Mitigation  
Project  
Preliminary  
Engineering  
(30% design)

54

## FLOOD MITIGATION PROJECTS (FMP)

21

Structural

Advanced Analysis /  
Design (30–100% design)

- Bridge/culvert
- Channel modifications
- Storm drain
- Flood diversion

33

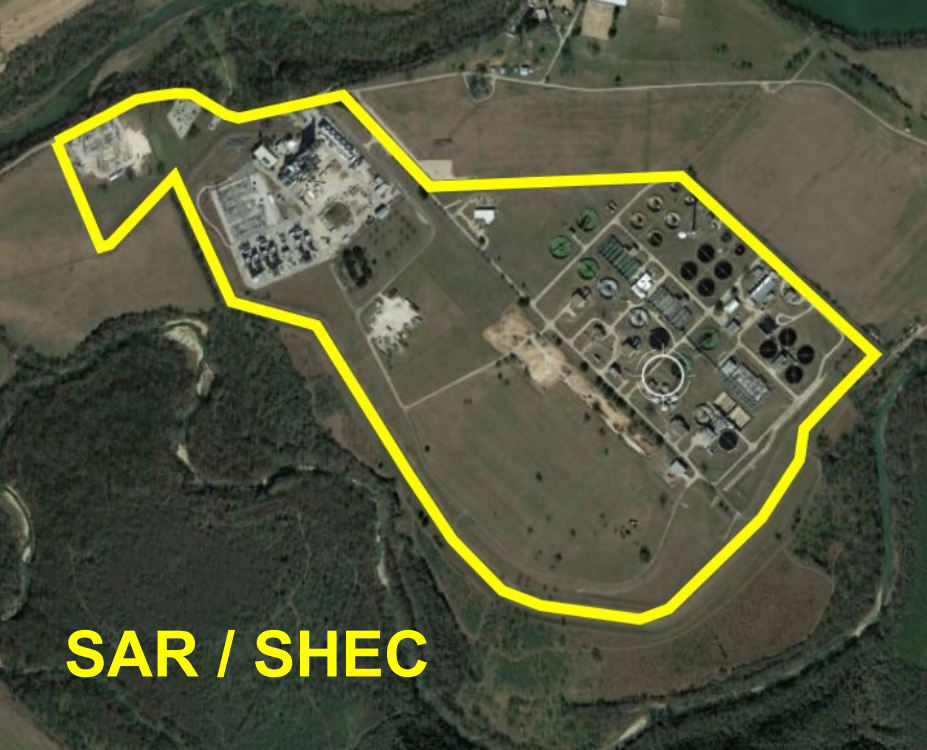
Non-Structural

Project Implementation

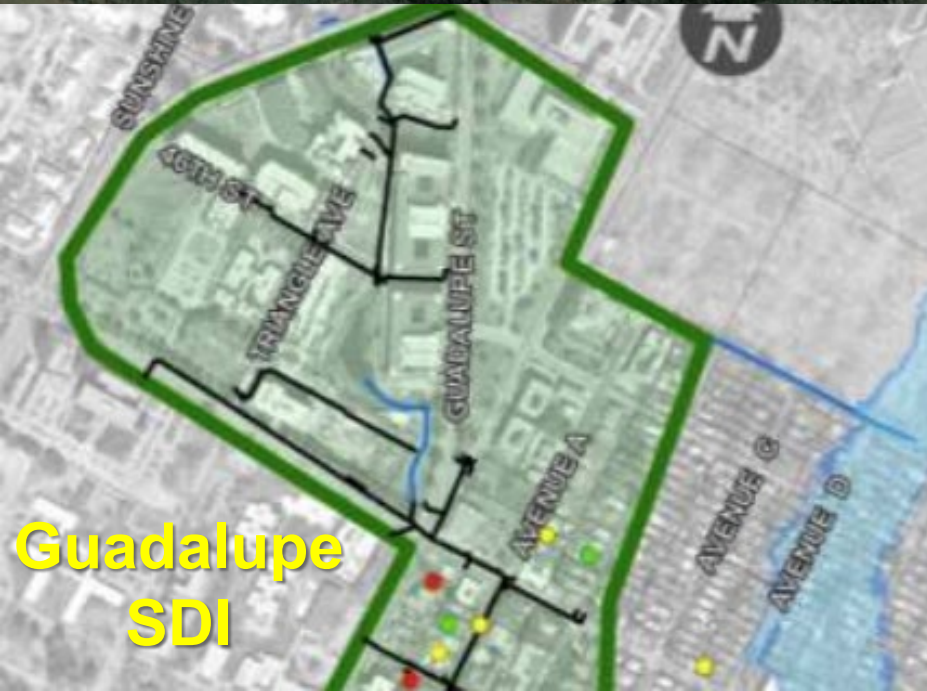
- Property/Easement Acquisition
- Floodproofing/Elevation of Structures
- Flood Warning Systems, Gauges
- Flood Readiness and Resilience

**Austin submitted 1 FME (study) and 5 FMPs (projects)**





**SAR / SHEC**



**Guadalupe  
SDI**

# CITY OF AUSTIN SUBMITTALS

- **Study**
  - Citywide Storm Drain Modeling
- **Projects**
  - South Austin Regional WWTP/  
Sand Hill Electric Center
  - Waller Creek/Guadalupe SDI
  - Shoal Creek/Nueces St. SDI
  - Walnut Creek WWTP
  - Dalton Lane Low-Water Crossing

SDI = Storm Drain Improvement; WWTP = Wastewater Treatment Plant

# RECOMMENDED PROJECTS, STUDIES, STRATEGIES

## Estimated Cost to Implement Regional Flood Plan

Recommended Action Type	Number of Actions	Estimated Implementation Costs
Flood Studies	151	\$32,905,000
Flood Projects	54	\$382,899,000
Flood Strategies	5	<i>TBD</i>
Totals	210	\$415,804,000



# SUMMARY



- Big step forward to have a State Flood Plan.
- Regional plan finalized Jan. 2023; State Plan finalized Sep. 2024.
- Austin's flood preparedness and prevention is exemplary.
- Austin still has many flooding needs from legacy development.
- 5 major Austin projects and 1 major study included in plan.
- Likely more statewide needs than available funds for final Flood Plan.
- Austin's Rain to River strategic plan offers chance for more local input.
- For more info: [www.LowerColoradoLavacaFlood.org](http://www.LowerColoradoLavacaFlood.org)