

Lower Colorado-Lavaca
**REGIONAL FLOOD
PLANNING GROUP**

REGION 10

February 17, 2022

Region 10 Lower Colorado-Lavaca RFPG

- 1. Call to Order**
- 2. Welcome**
- 3. Approval of minutes from the previous meeting**

Region 10 Lower Colorado-Lavaca Flood Planning Group Meeting
 January 31, 2022
 9:30 AM
 Hybrid Meeting

Roll call:

Voting Member	Interest Category	Present (x) /Absent () Alternate Present (*)
Terry Been	Agricultural interests	x
Phillip Spenrath	Counties	x
Jason Ludwig	Electric generating utilities	x
Kirby Brown	Environmental interests	x
G. Nicholas "Nick" Textor	Flood districts	x
Brandon Klenzendorf	Industries	x
Matt Hollon	Municipalities	x
Frances Acuna	Public	x
Patrick Brzozowski	River authorities	x
Kelly Payne	River authorities	x
Ann Yakimovicz	Small business	x
Kacey Cubine Paul	Water districts	x
Hank Smith	Water utilities	x

Non-voting Member	Agency	Present(x)/Absent()/ Alternate Present (*)
Charles "CW" Schneider	Texas Commission on Environmental Quality	x
Lauren Mayes	Texas Department of Agriculture	
James Guin	Texas Division of Emergency Management	x (joined @ 9:55am)
Shonda Mace	Texas General Land Office	x
Beth Bendik	Texas Parks and Wildlife Department	x
Allen Nash	Texas State Soil and Water Conservation Board	x
Tressa Olsen	Texas Water Development Board	x
Mark Vogler	Region 8 – Lower Brazos Liaison	* Brian Fambrough
Chuck Brown	Region 9 – Upper Colorado Liaison	x (joined @ 9:44am)
Ronald G. Fieseler	Region 11 – Guadalupe Liaison	
Cara Tackett	Region 12 – San Antonio Liaison	x (joined @ 10:19am)

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **13**

Number required for quorum per current voting membership of 13: **7**

Other Meeting Attendees: **

**Meeting attendee names were gathered from those who entered information for joining the Zoom meeting.

Reem Zoun - TWDB
 Matt Nelson - TWDB
 Cris Parker – HDR, Inc.
 Karen Ford – WaterPR

Cindy Englehardt – Halff Associates, Inc.
 Mike Personett – Halff Associates, Inc.
 Jay Scanlon – Freese and Nichols
 Pam Kearfott, City of Austin

Lauren Graber – LCRA
Annette Keaveny - LCRA
Jennifer Bassett – LCRA
Marcin Tyszka – LCRA
Kathy Gay Baca
Charlie Flatten, HTGCD
Anthony Groves – Mayor, Brady, TX
Jeff Haerber

Nick Kincaid, City of Austin
Allison Land, City of Bastrop
Mieko Mahi
Lisa McCracken Mairs – USACE
Stephen Rockwood
Ray Don Tilley
Augusto Villalon – Freese and Nichols

All meeting materials are available for the public at:
www.lowercoloradolavacafood.org/meetings

Agenda:

1. Call to Order

Chair Phillip Spenrath called the meeting to order at 9:30 AM CST. A roll call of the planning group members was taken to record attendance and a quorum was established prior to calling the meeting to order.

2. Welcome

Chair Phillip Spenrath welcomed members and other attendees to the meeting.

3. Approval of minutes from the previous meeting

The draft meeting minutes were reviewed.

Kelly Payne moved to approve the minutes, seconded by Patrick Brzozowski. The motion passed by a vote of 13-0.

4. Public comments– limit 3 minutes per person

Chair Phillip Spenrath called for public comments.

No comments were given.

5. TWDB Update

Tressa Olsen gave an update on TWDB items:

- TWDB found the Region 10 Technical Memo No. 1 to be administratively complete and gave the RFPG notice to proceed with work in Task 5.
- Continuing to work through the contract amendments for all 15 planning regions.
- TWDB sending out invitations to another RFPG chair meeting soon.

6. Update from the Planning Group Sponsor

Lauren Graber reported:

- Technical Memo No. 1 submitted prior to the due date; TWDB gave notice to proceed for Task 5.

a. Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement

Lauren Graber presented the latest administrative costs incurred and requested the RFPG members approve a reimbursement by TWDB.

Kirby Brown moved to approve the requested administrative reimbursement, seconded by Kacey Paul. The motion passed by a vote of 13-0.

7. Update from RFPG liaisons

Ann Yakimovicz reported that Region 9 was at the same approximate place as Region 10. They were identifying gaps in flood risk data and identifying potential flood mitigation evaluations, strategies, and projects.

a. Discuss and consider designating new non-voting member liaisons to coordinate with neighboring Flood Planning Regions

Pat Brzozowski requested another person serve as liaison for Region 11 or 12. Kirby Brown volunteered to serve as liaison to Region 12.

Kirby Brown moved to approve himself as the new liaison to Region 12, seconded by Philip Spenrath. The motion passed by a vote of 13-0.

8. Update from the Technical Committee

Kelly Payne reported:

- Technical Committee met for 2.5 hours on Jan. 27, 2022.
- Elected officers: Kelly Payne, Chair; Kacey Paul, Vice Chair; Ann Yakimovicz, Secretary.
- The Technical Committee will be making recommendations to the full RFPG members on evaluations, strategies, and projects. The list of these recommendations will serve as the basis for Task 5.
- Next meeting will be held in March with potentially two meetings per month through June.

9. Nominations, discussion, and possible action to elect RFPG Chair, Vice Chair, and Secretary

Chair Phillip Spenrath called for nominations for the annual elections of RFPG Chair, Vice Chair, and Secretary.

After discussion, Kelly Payne nominated and made a motion for Phillip Spenrath to serve as Chair, seconded by Kirby Brown. The motion passed by a vote of 13-0.

After discussion, Ann Yakimovicz nominated and made a motion for Kacey Paul to serve as Vice Chair, seconded by Patrick Brzozowski. The motion passed by a vote of 13-0.

After discussion, Kacey Paul nominated and made a motion for Kelly Payne to serve as Secretary, seconded by Ann Yakimovicz. The motion passed by a vote of 13-0.

10. Consider nominating and electing two members-at-large to serve on the Executive Committee

Chair Phillip Spenrath called for nominations of two members-at-large to serve on the Executive Committee.

After discussion, Kirby Brown nominated Brandon Klenzendorf and Jason Ludwig, and Kacey Paul nominated Kirby Brown. Kirby Brown declined the nomination. Kelly Payne made a motion for Brandon Klenzendorf and Jason Ludwig to serve as members-at-large on the Executive Committee, seconded by Patrick Brzozowski. The motion passed by a vote of 13-0.

11. Technical Consultant presentations and discussions related to regional flood planning

Mike Personett and Cindy Englehardt (both Halff Associates, Inc.), Karen Ford (WaterPR), and Jay Scanlon (Freese and Nichols) provided updates, briefings, and discussion on the following:

- a. Project status
- b. Technical Memorandum No. 2
 - i) Results of Tasks 2A/B – Existing and Future Flood Risk
 - ii) Results of Tasks 4A – Flood Mitigation Needs
- c. Discuss Task 8 – Administrative, Regulatory, and Legislative issues
- d. Look-ahead

Planning group members asked questions and made comments during the presentation. No action was taken.

12. Public comments – limit 3 minutes per person

Chair Phillip Spenrath called for public comments.

No comments were given.

13. Consider date and agenda items for next meeting

Chair Phillip Spenrath opened discussion to consider the date and agenda items for the next meeting.

Chair Spenrath proposed that the next meeting agenda include the consultant's presentation and consideration of approval to submit Technical Memo No. 2 to the Texas Water Development Board prior to the March 7 deadline.

After general discussion, Chair Phillip Spenrath concluded that the next meeting will be held on Thursday, Feb. 17 at 9:30 AM CST.

14. Adjourn

Kelly Payne made a motion to adjourn, seconded by Kirby Brown. The motion passed 13-0 and the meeting was adjourned at 11:13 AM CST by Chair Phillip Spenrath.

*Approved by the Lower Colorado-Lavaca RFPG at a meeting held on **DATE**.*

Kelly Payne, SECRETARY

Phillip Spenrath, CHAIR

Region 10 Lower Colorado-Lavaca RFPG

- 4. Public comments – limit 3 minutes per person**
- 5. TWDB Update**
- 6. Update from RFPG liaisons**
- 7. Update from Planning Group Sponsor**

Region 10 Lower Colorado-Lavaca RFPG

8. Discussion and potential action to approve mileage expenses for reimbursement

Date of Meeting	Description	Total Mileage	Per Mile Rate	Total
January 31, 2022	Region 10 RFPG Meeting – Spennath	291	\$.585	\$170.24

Region 10 Lower Colorado-Lavaca RFPG

- 9. Technical Consultant presentations and discussions related to regional flood planning**
 - a. Project status**
 - b. Look-ahead**



LOWER COLORADO – LAVACA
REGIONAL FLOOD PLAN
A TEXAS INITIATIVE

REGIONAL FLOOD PLANNING GROUP MEETING | FEBRUARY 17, 2022



AGENDA

Project Status

- Review Workflow Chart
- Public and Stakeholder Engagement
- Task 4B – Potential FMEs, FMSs and FMPs

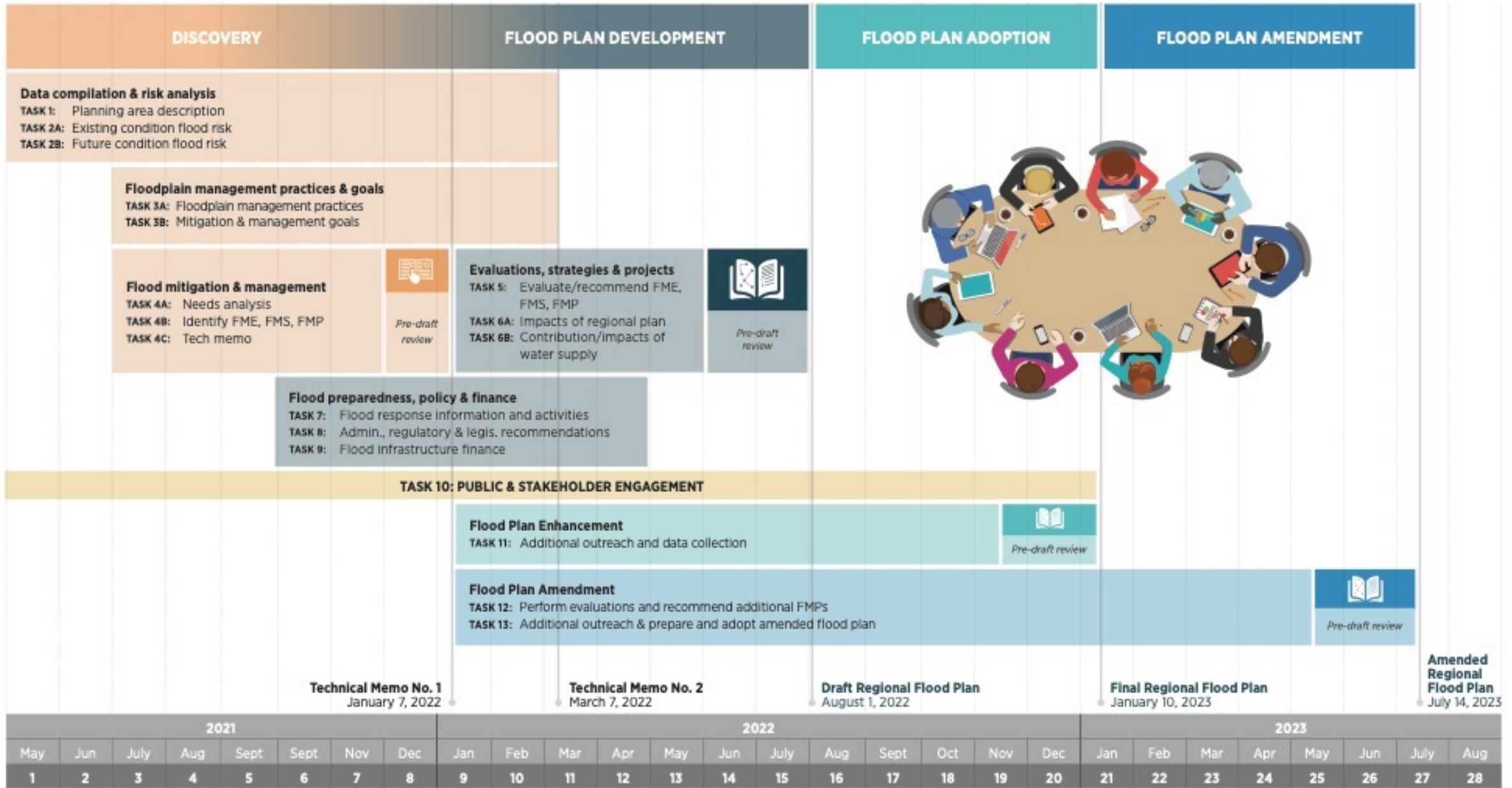
Task 4C – Review draft Technical Memorandum No. 2

- Task 2A/B – Existing and Future Condition Flood Risk
- Task 4A – Flood Mitigation Needs

Look-ahead Calendar



Project Status



PUBLIC OUTREACH AND ENGAGEMENT

Karen Ford – WaterPR



Ongoing Strategies to Reach Audiences

Email Blasts to Community & Public Stakeholders (491)

- February RFPG Meeting
- Flood Risk Map LIVE for public input
- Technical Memorandum #2

Website

- Flood Risk Map page
- Meeting calendars (RFPG & Tech Committee)

Media

- Press Release: February 14, 2022
- Social media posts: Flood Risk Map, 2/17 Meeting

Existing Flood Risk Map Available for Public Input

Deadline for comments: February 25, 2022

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10



NEXT MEETING
Thursday
Feb. 17, 2022
9:30am to Noon

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

HYBRID MEETING

Agenda & Link at:
LowerColoradoLavacaFlood.org

TASK 4B – POTENTIAL FMEs, FMSs AND FMPs

Additional Screening

Screening Objectives

- Refine preliminary potentially feasible STUDIES, STRATEGIES, and PROJECTS
 - Update list of activities determined to be infeasible
- Identify process and recommend STUDIES to be advanced under Task 12
- Complete additional screening by March and initiate Task 5

Sponsor Verification Approach

- Entity's interest in sponsorship of potential FMPs/FMSs/FMPs
- Entity's willingness and ability to fund/finance implementation (full or partial)
- Accuracy of information included in preliminary lists
- Whether FMEs/FMSs/FMPs identified as potentially feasible are viable, have already been implemented, are not a priority, etc.
- Whether there are FMEs/FMSs/FMPs to add and evaluate

TASK 4B – POTENTIAL FMEs, FMSs AND FMPs

Overview

10

FLOOD MANAGEMENT STRATEGIES (FMSs)

- Infrastructure Project Planning
- Property/Easement Acquisition
- Elevation of Structures
- Education and Outreach
- Flood Warning and Measurement
- Regulatory and Guidance

586

INFEASIBLE

Do not meet minimum screening requirements

152

FLOOD MANAGEMENT EVALUATIONS (FMEs)

Studies

Risk Reduction Analysis

Flood Preparedness Study

Modeling and Mapping / Risk Identification

Alternatives Analysis / Feasibility Assessment

Preliminary Engineering (30% design)

91

FLOOD MITIGATION PROJECTS (FMPs)

Structural Infrastructure

Non-Structural


27

Advanced Analysis / Design / Construction (30 - 100% design)

64

Project Implementation

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



Task 4C

Technical Memorandum No. 2

TASK 4C – TECHNICAL MEMORANDUM #2

Content and Schedule

Status Overview Text

- Introductory Text for Technical Memorandum No. 2 Deliverables
 - Task 2A/B – Existing and Future Condition Flood Risk
 - Task 4A – Flood Mitigation Needs

Task 4C Attachments (Items 1c-e)

- Tables, Maps, and Geospatial Database
 - Existing and Future Condition Flood Risk
 - Flood Mapping Gaps
 - Hydrologic and Hydraulic Model Availability

DRAFT MEMO #2
February 2022

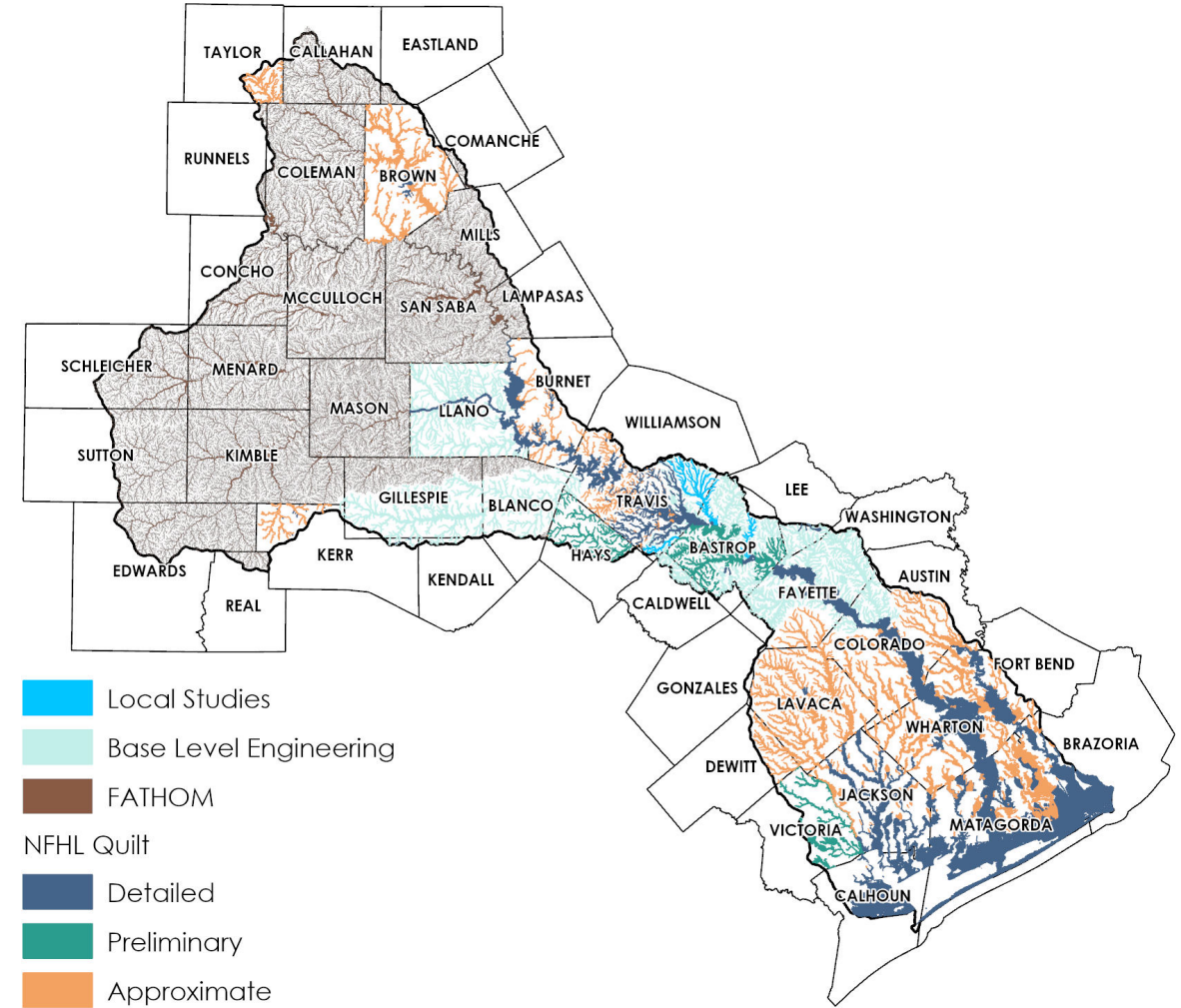
DUE TO TWDB
March 7, 2022

TASK 2A/B – EXISTING AND FUTURE CONDITION FLOOD RISK

Flood Hazard Analysis

Preliminary Floodplain Quilt

1. Local Studies
2. National Flood Hazard Layer
 - Pending & Preliminary Data
 - Effective Data for Detailed Study Areas (Zone AE, AO, AH, and VE)
3. Base Level Engineering
4. National Flood Hazard Layer
 - Effective Data for Approximate Study Areas (Zone A and V)
5. Fathom
6. ~~First American Flood Data Services~~

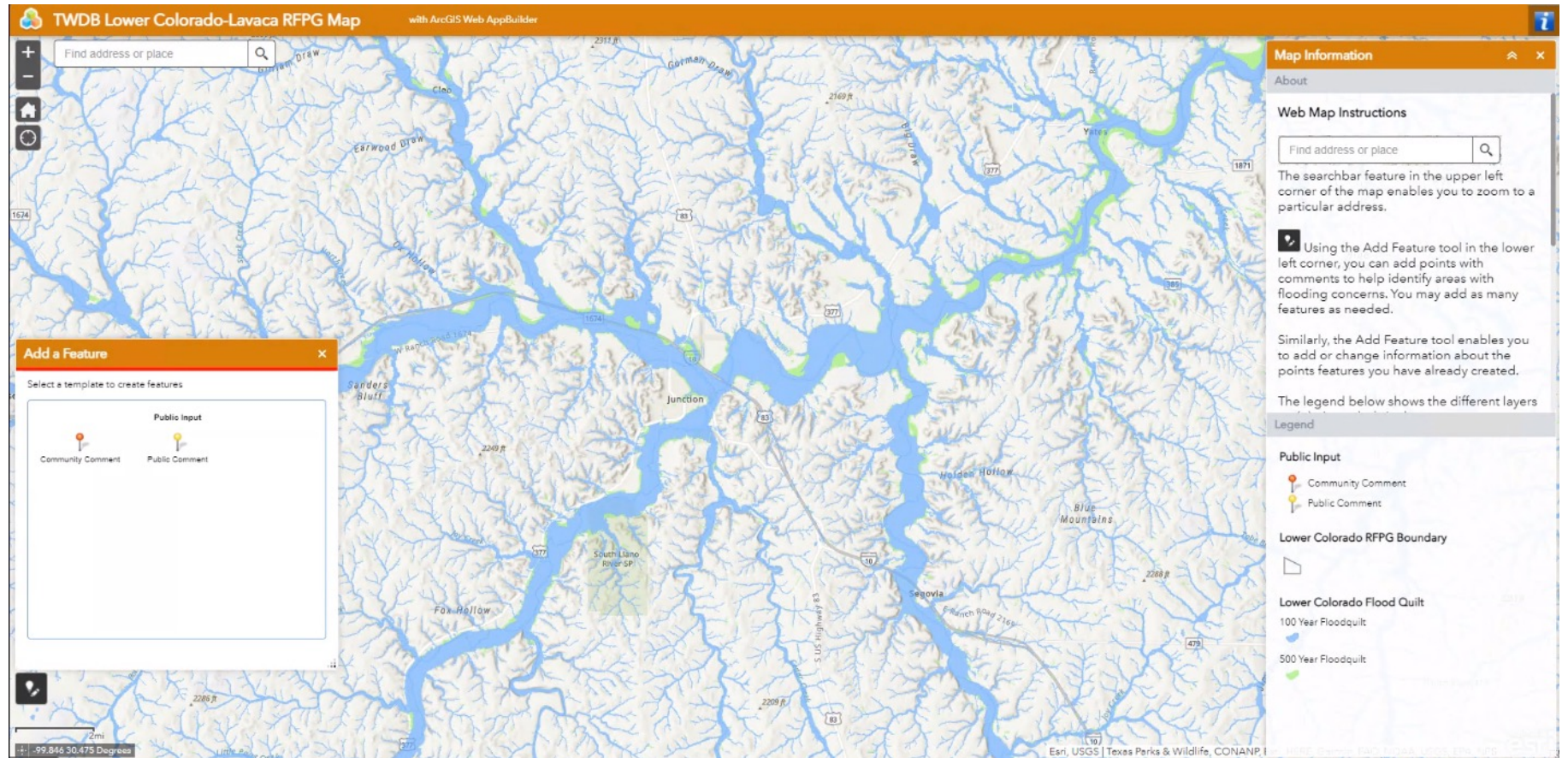


TASK 2A – EXISTING CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Public Comment Web Map

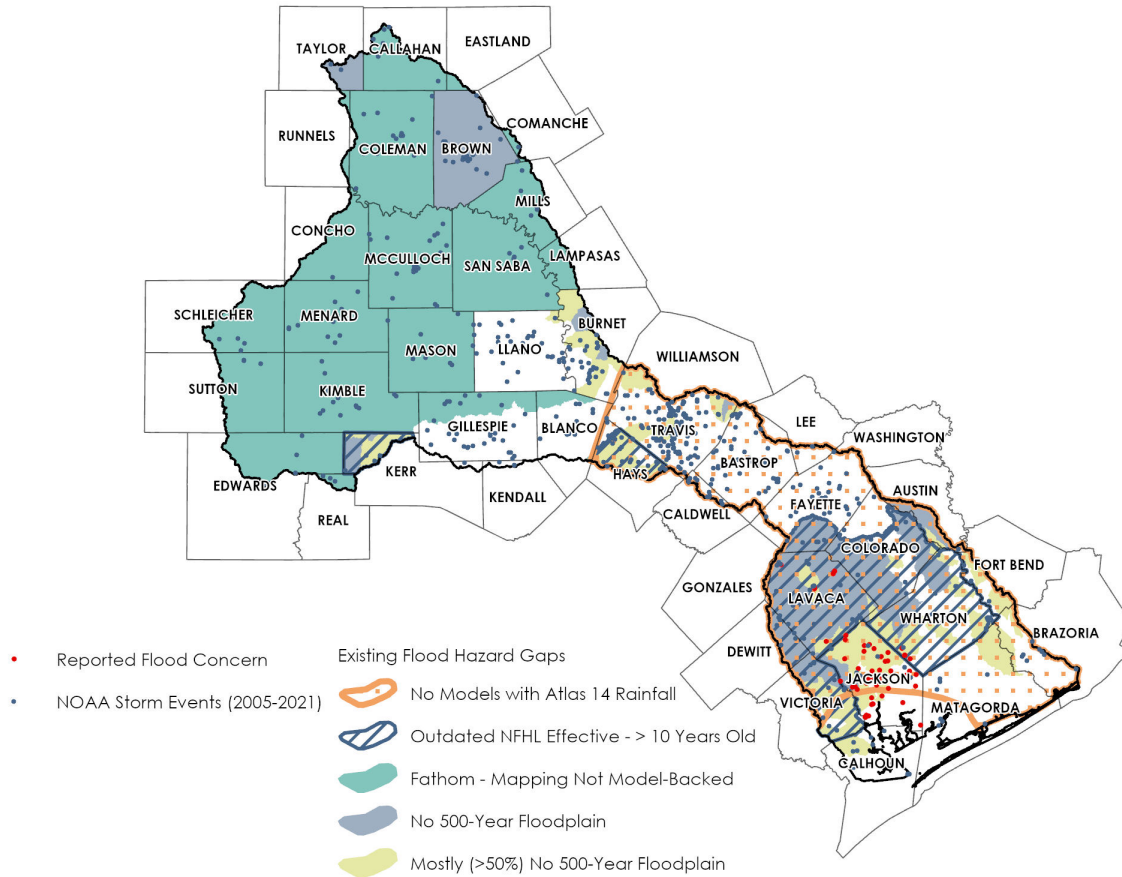
- Go to the website
- Drag pin to map
- Provide contact information
- Leave comment



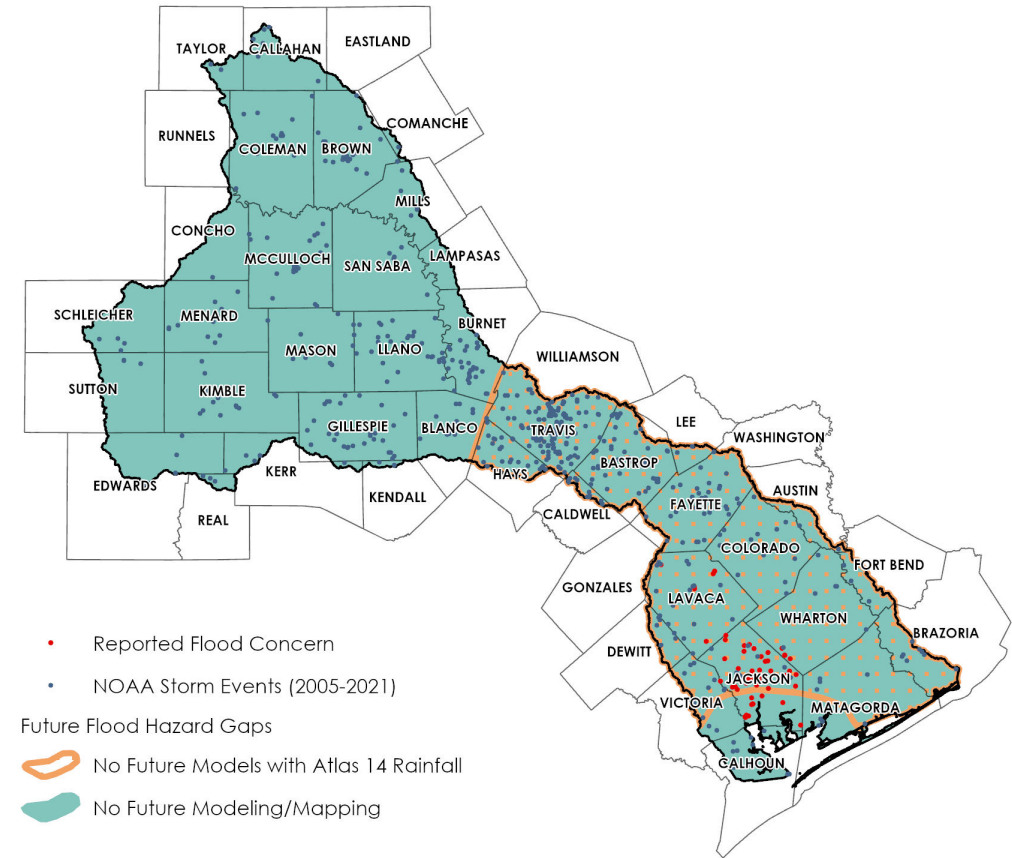
TASK 2A/B – EXISTING AND FUTURE CONDITION FLOOD RISK

Flood Hazard Gaps and Known Flood Prone Areas

Existing Conditions



Future Conditions



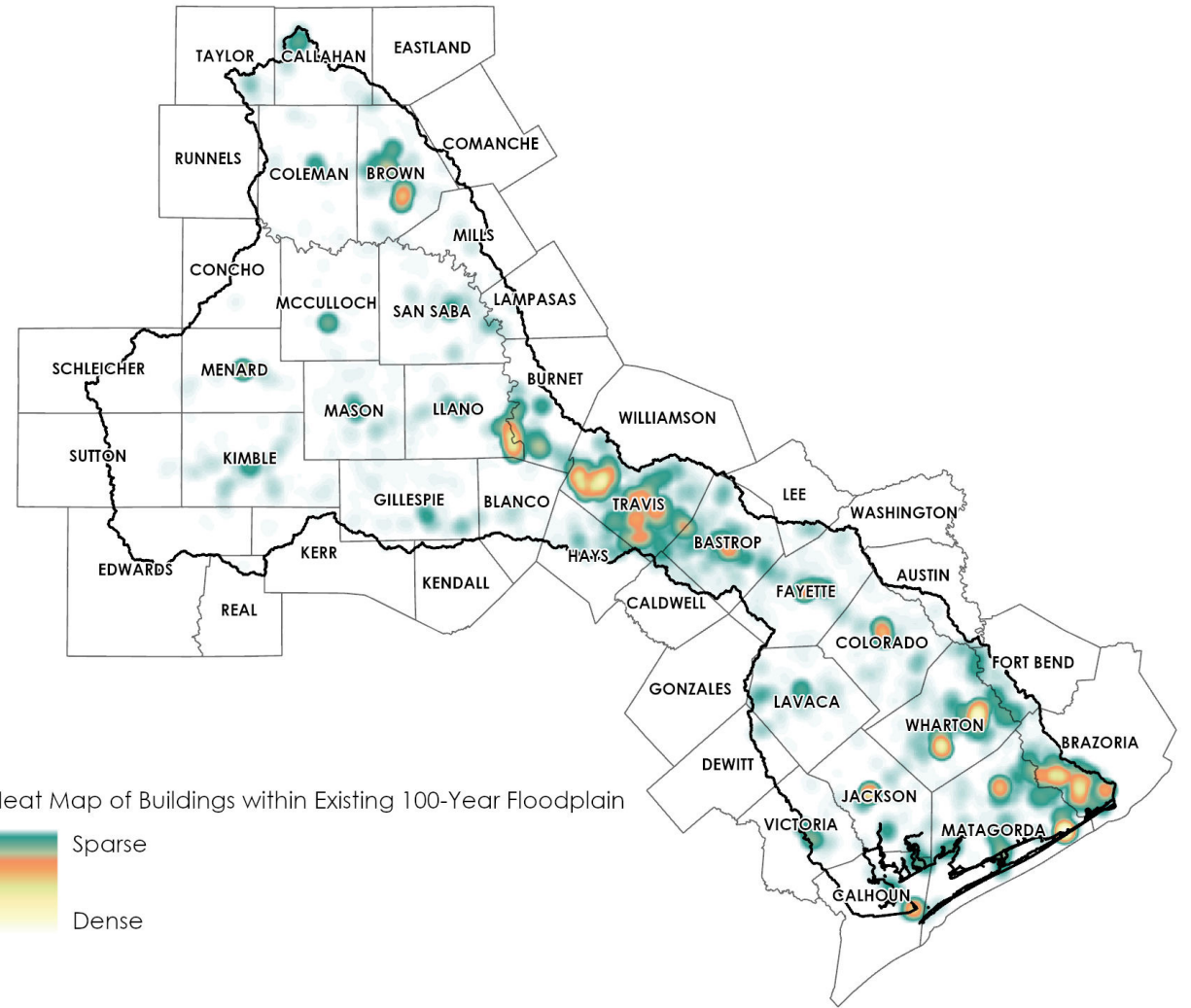
TASK 2A – EXISTING CONDITION FLOOD RISK

Exposure Analysis: Buildings at Risk

Buildings at Risk

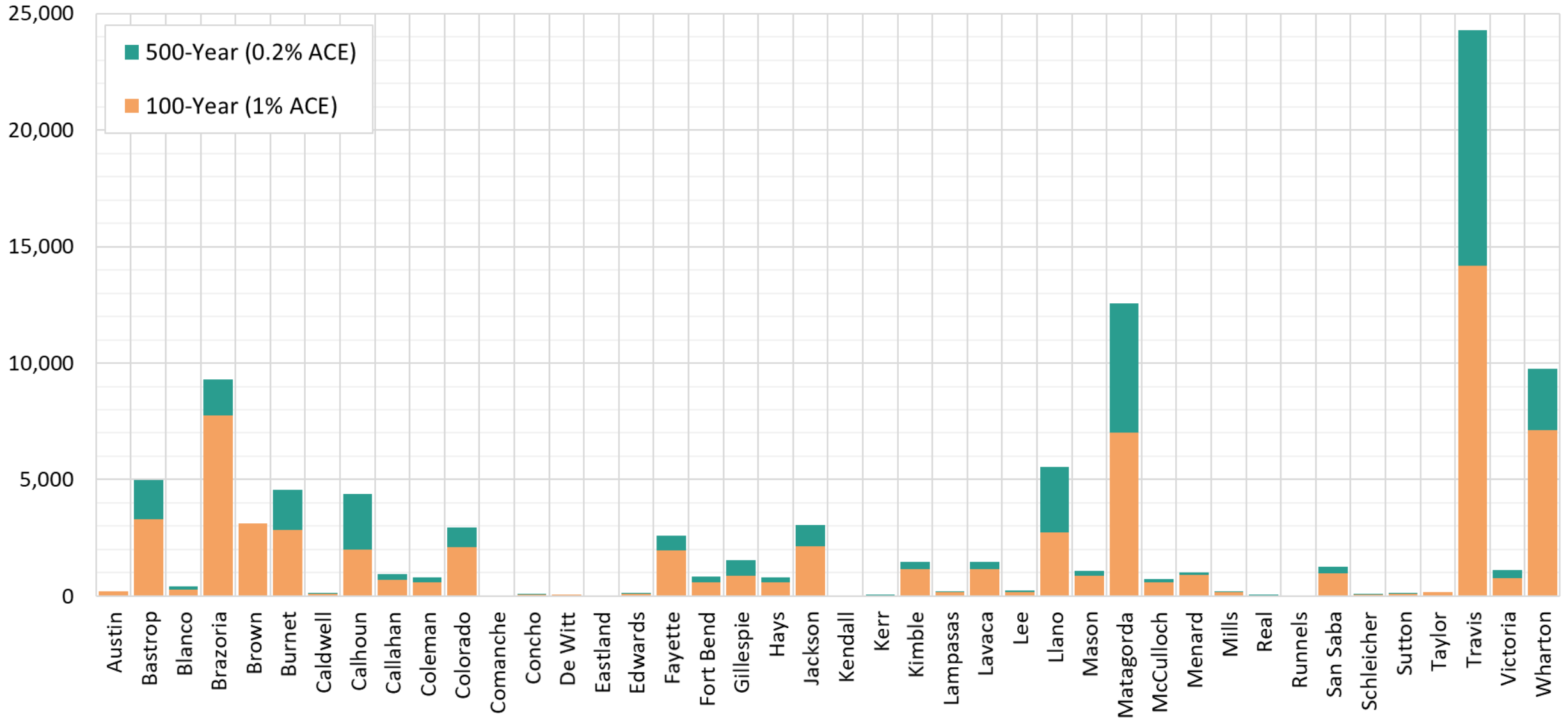
- Selection of all building footprints that touch a floodplain

Existing Condition Floodplain	Rounded Totals
100-year (1% annual chance)	68,000 buildings
500-year (0.2% annual chance)	102,000 buildings



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Exposure Analysis: Buildings at Risk



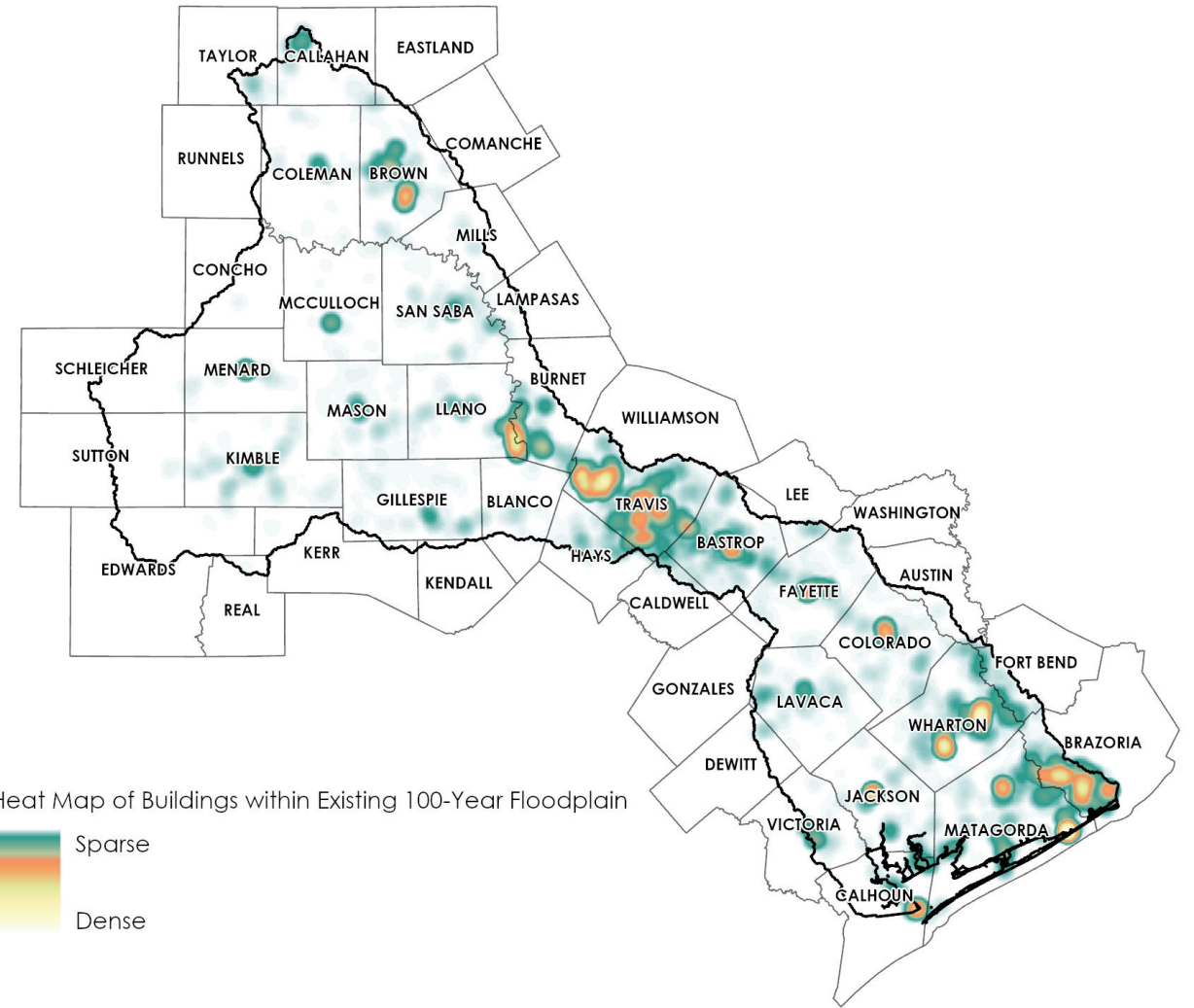
TASK 2A – EXISTING CONDITION FLOOD RISK

Exposure Analysis: Population at Risk

Population at Risk

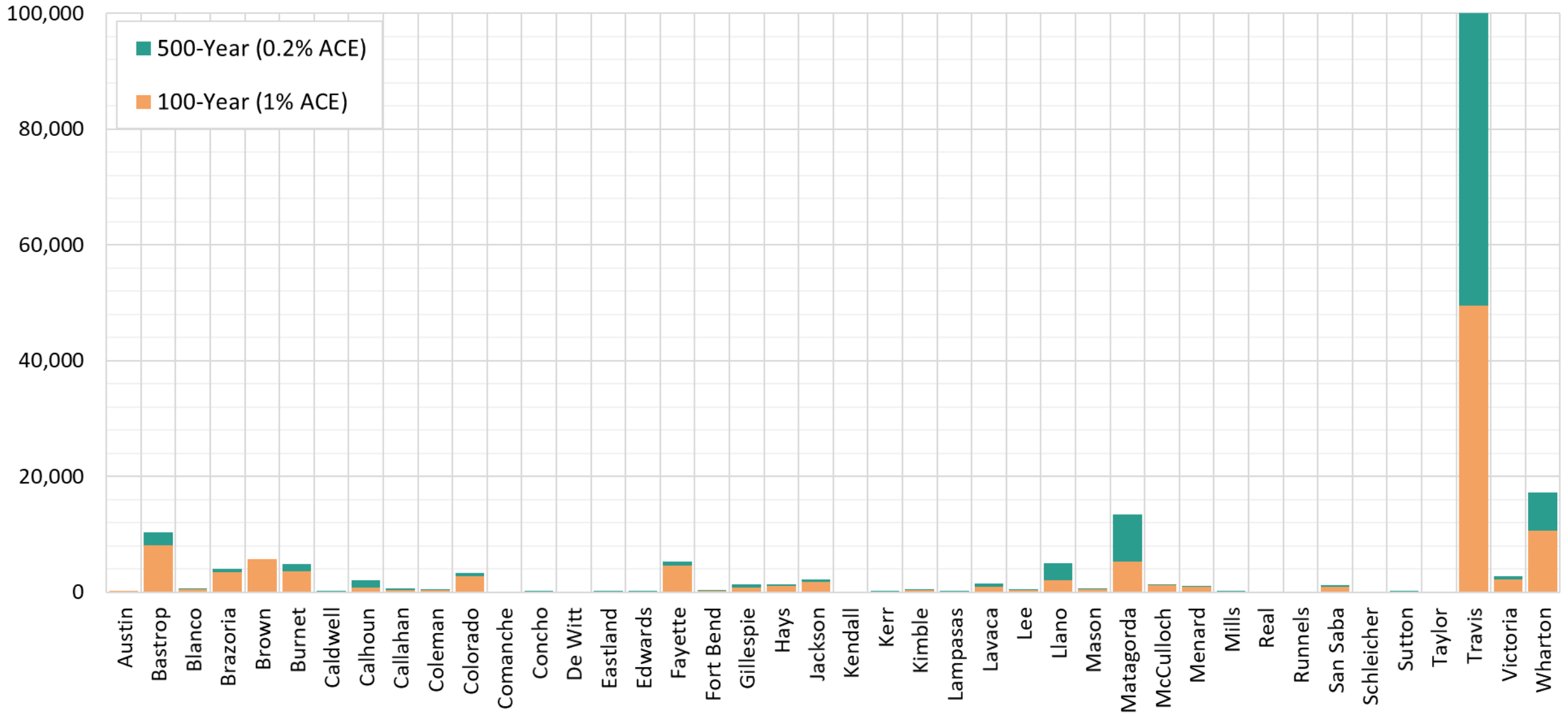
- Daytime populations based on at risk buildings

Existing Condition Floodplain	Rounded Totals
100-year (1% annual chance)	109,000 people
500-year (0.2% annual chance)	187,000 people



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Exposure Analysis: Population at Risk



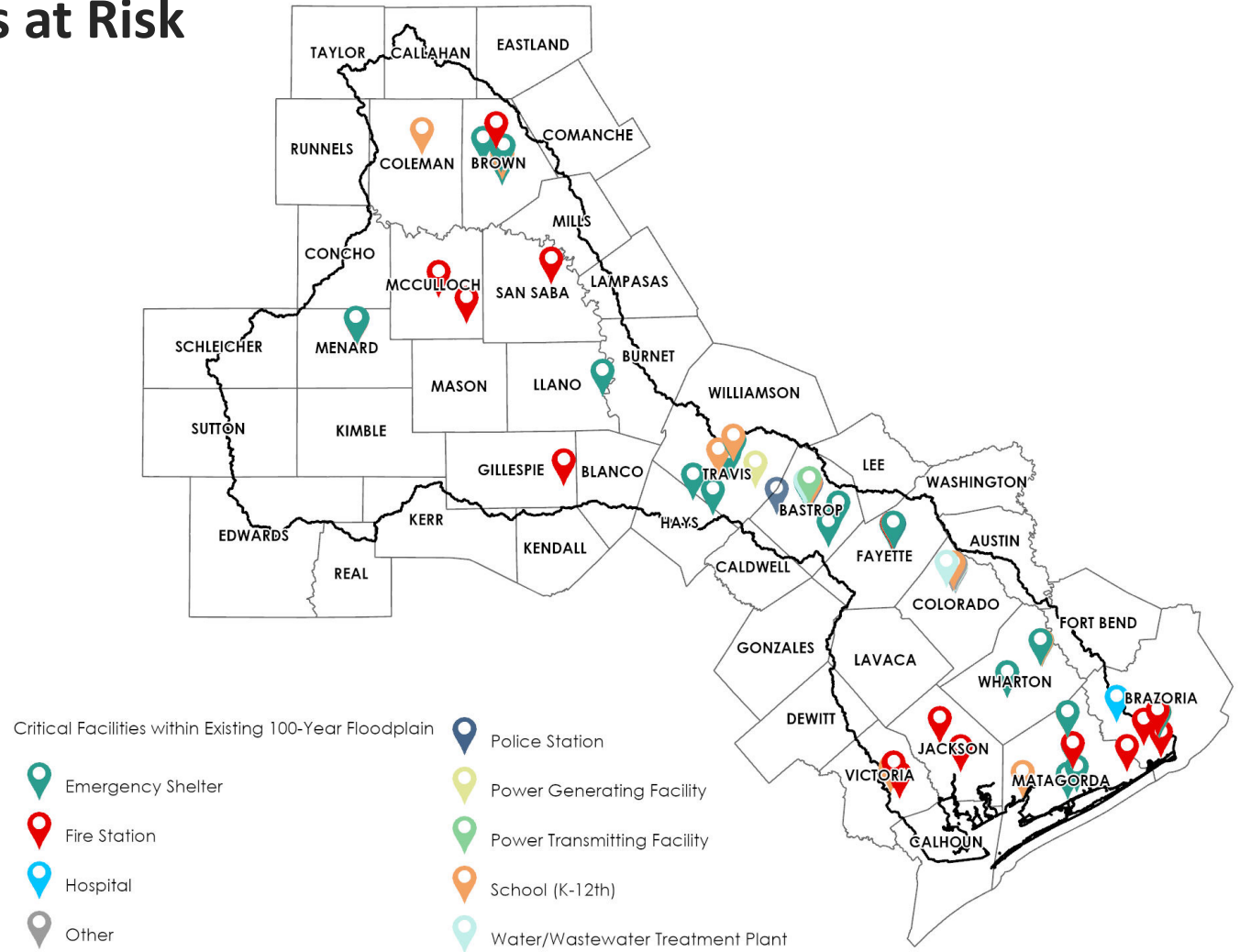
TASK 2A – EXISTING CONDITION FLOOD RISK

Exposure Analysis: Critical Facilities at Risk

Critical Facilities at Risk

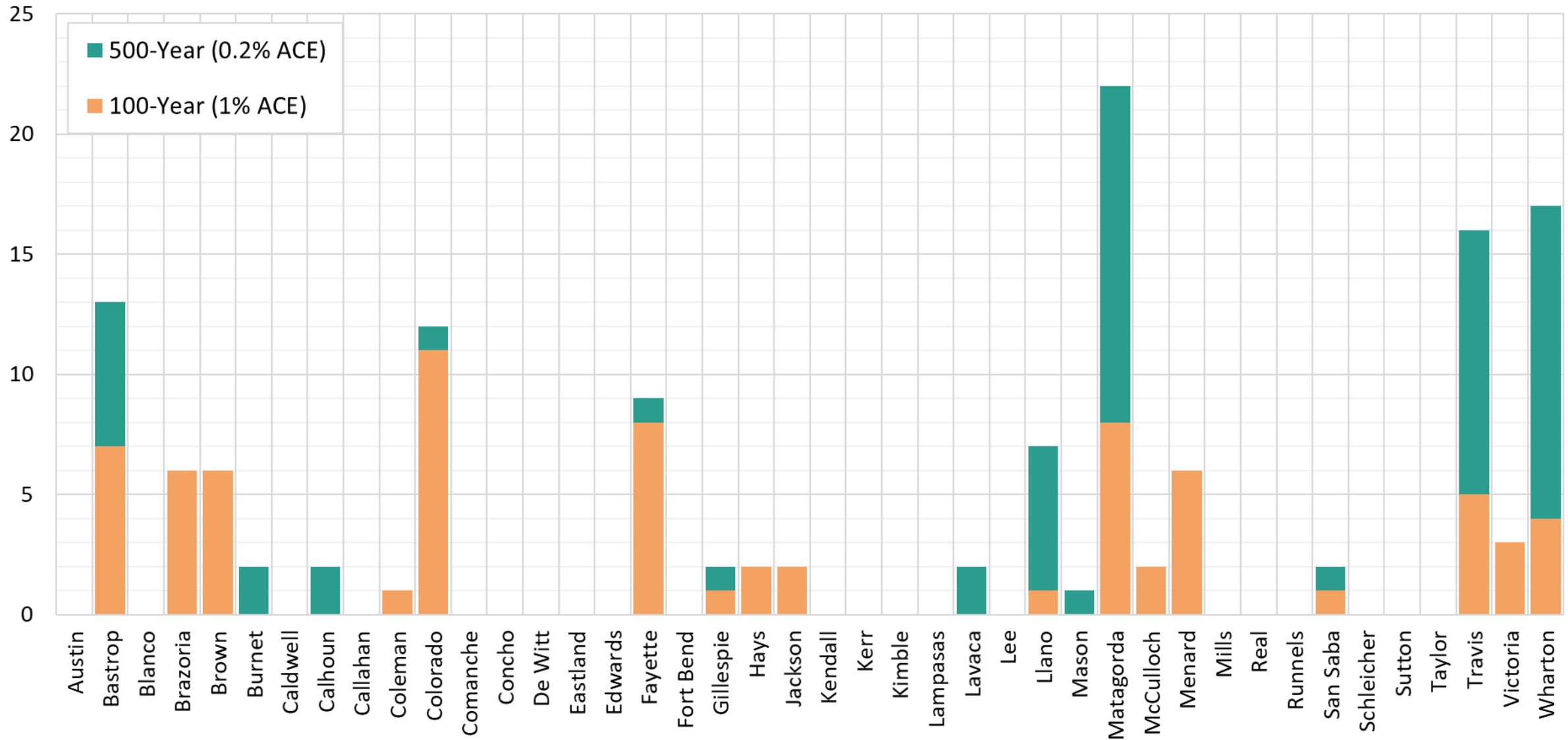
- Selection of all critical facility points that touch a floodplain

Existing Condition Floodplain	Totals
100-year (1% annual chance)	74 facilities
500-year (0.2% annual chance)	135 facilities



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Exposure Analysis: Critical Facilities at Risk



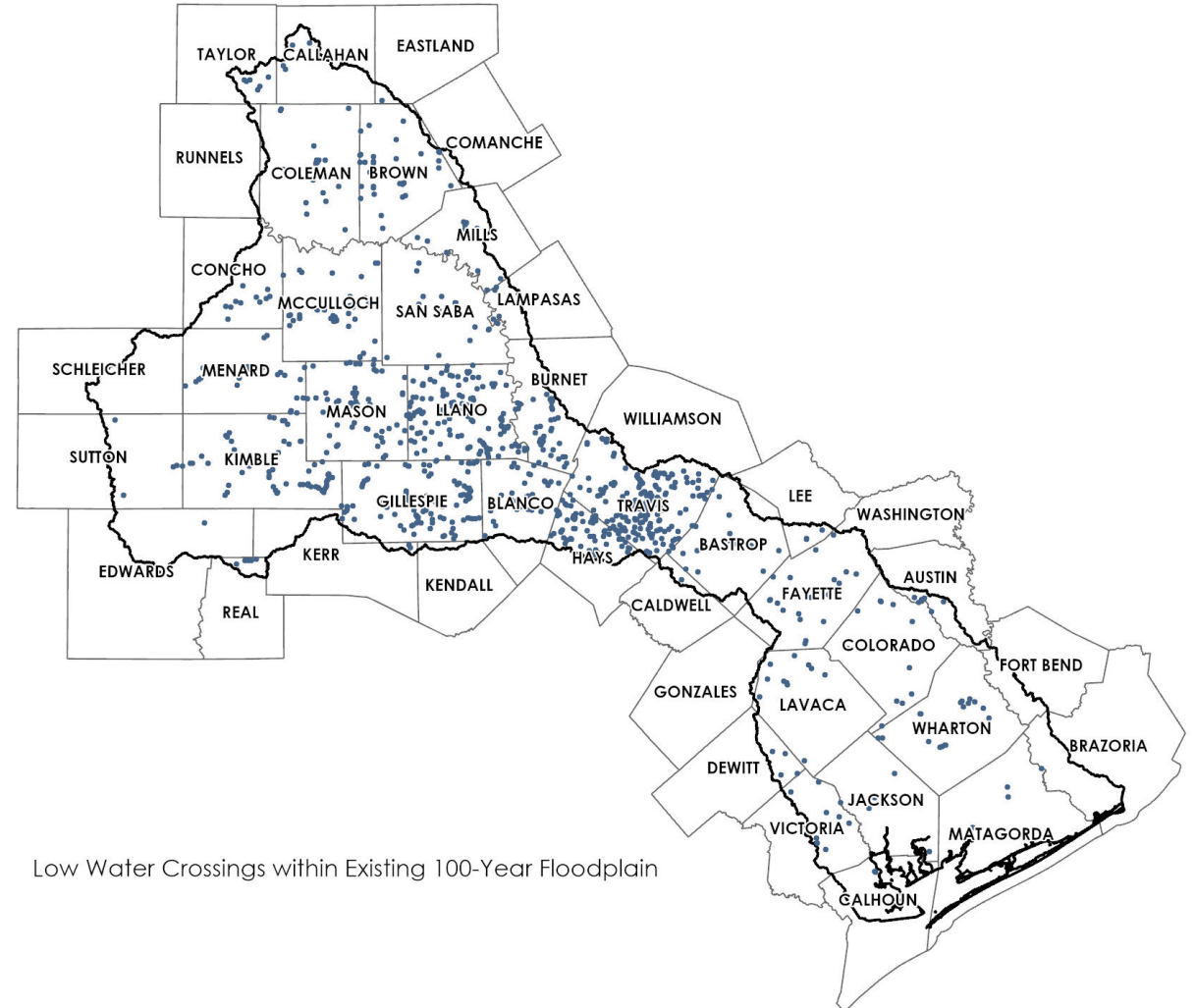
TASK 2A – EXISTING CONDITION FLOOD RISK

Exposure Analysis: Low Water Crossings at Risk

Low Water Crossings at Risk

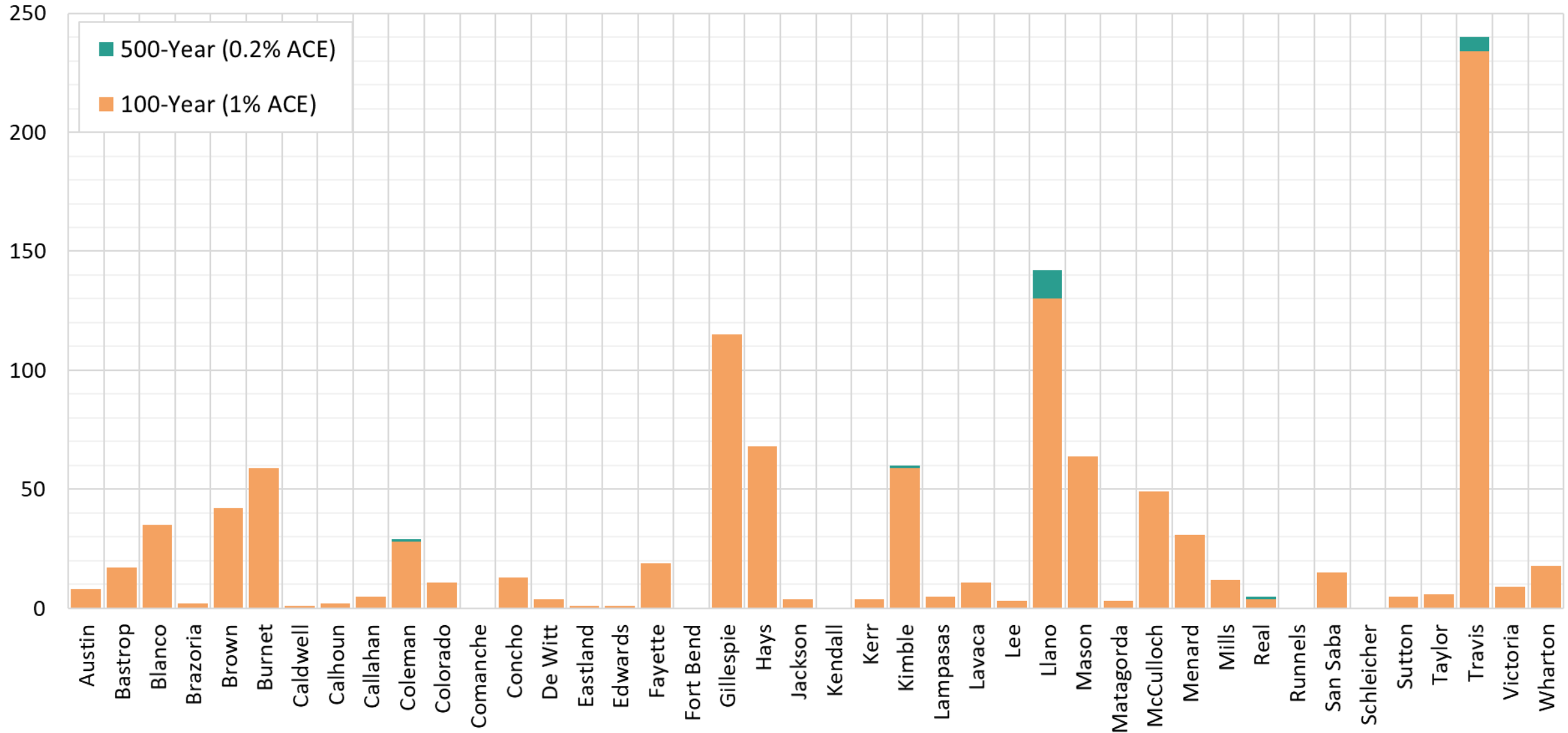
- Selection of all low water crossing points that touch a floodplain

Existing Condition Floodplain	Rounded Totals
100-year (1% annual chance)	1,100 crossings
500-year (0.2% annual chance)	1,120 crossings



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Exposure Analysis: Low Water Crossings at Risk



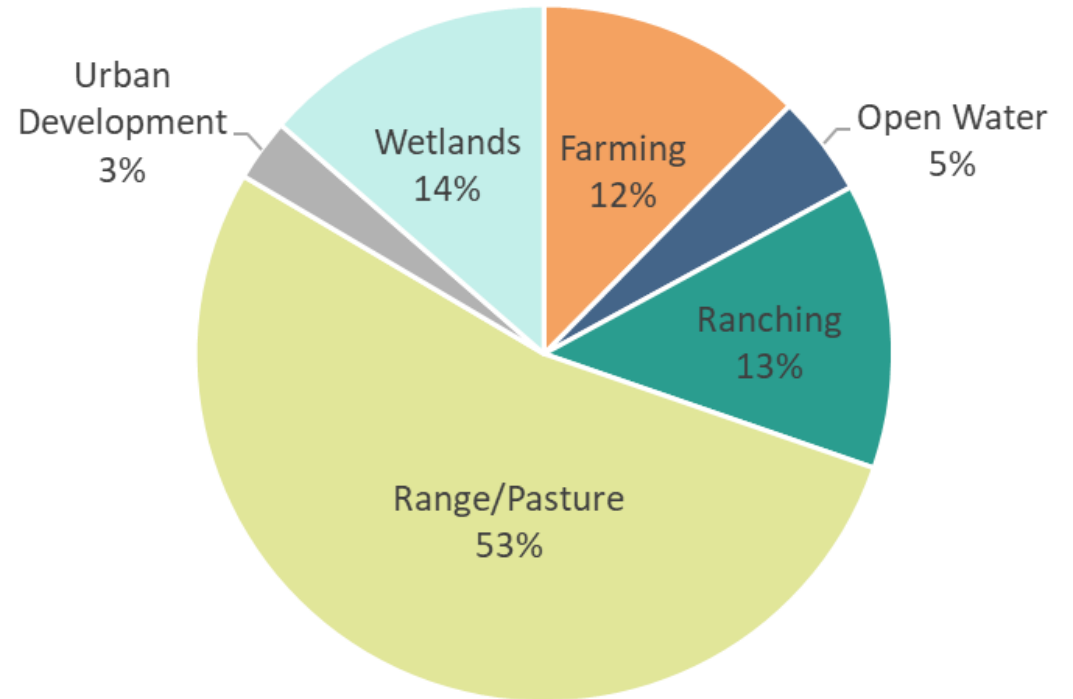
TASK 2A – EXISTING CONDITION FLOOD RISK

Exposure Analysis: Agricultural Land at Risk

Agricultural Land at Risk

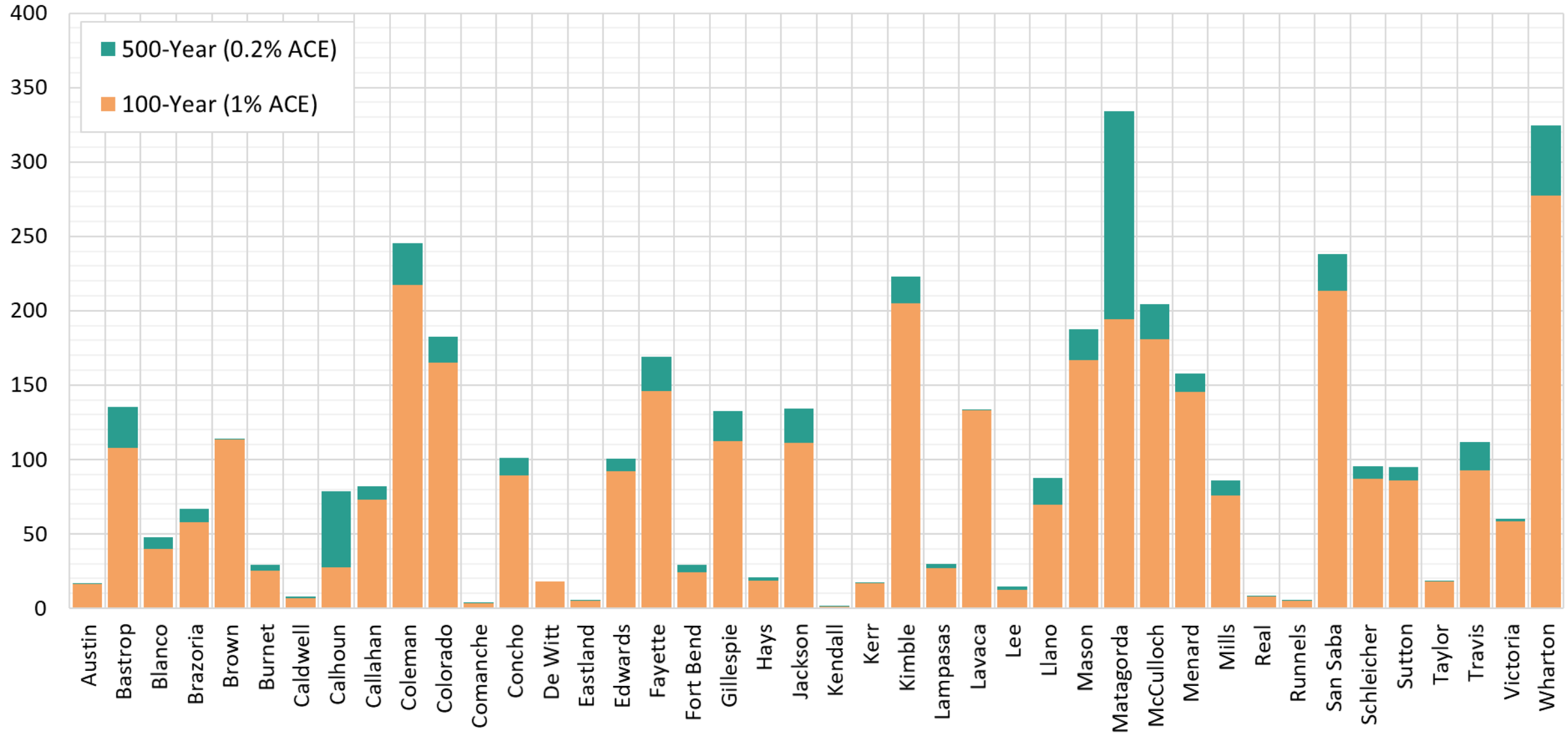
- Clipped land use by the floodplains to better understand impacted land use types
- Assumes all land use types except urban development, wetlands, and open water

Existing Condition Floodplain	Rounded Totals
100-year (1% annual chance)	3,500 square miles
500-year (0.2% annual chance)	4,200 square miles



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Exposure Analysis: Agricultural Land Area at Risk



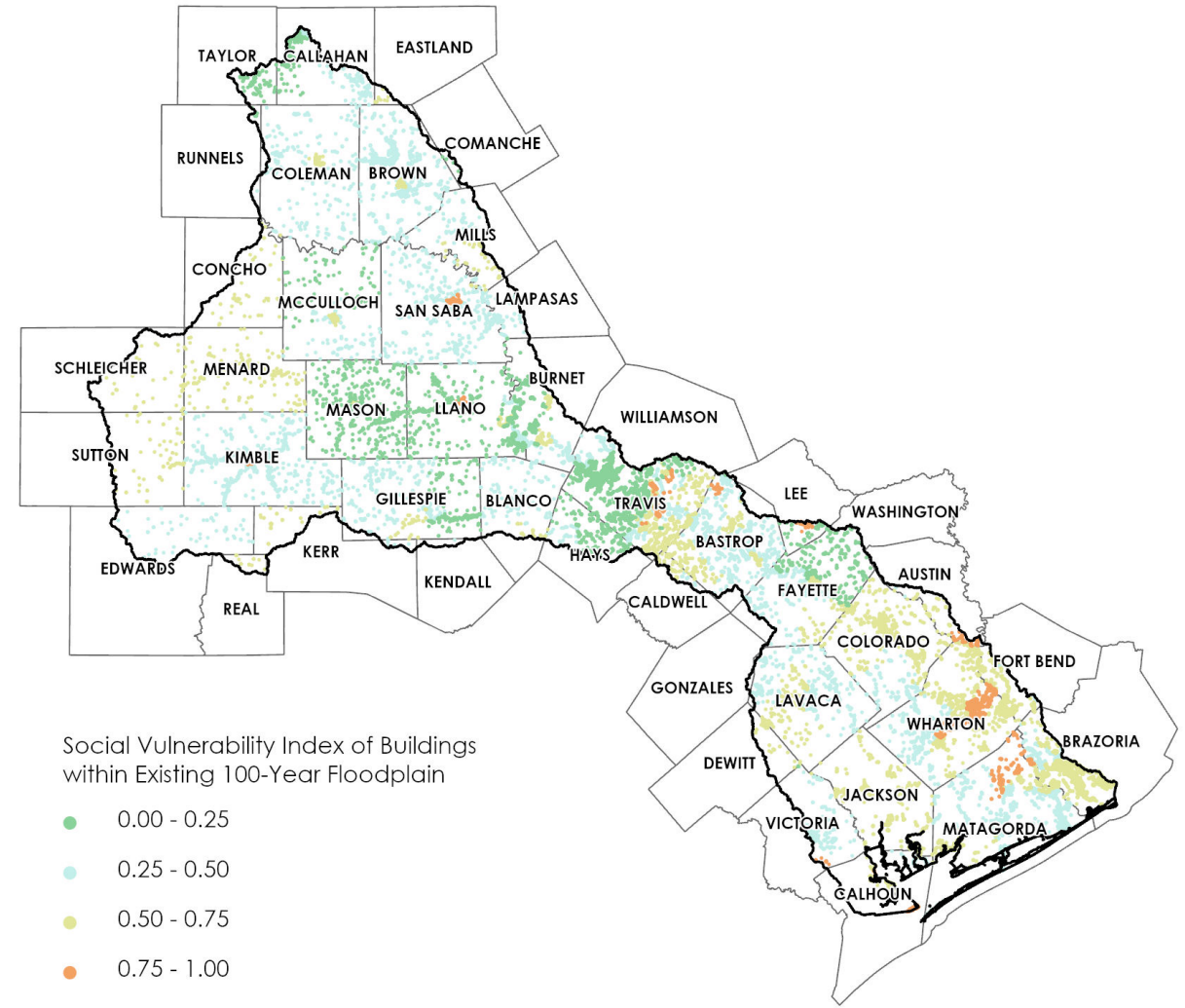
TASK 2A – EXISTING CONDITION FLOOD RISK

Vulnerability Analysis

Social Vulnerability Index

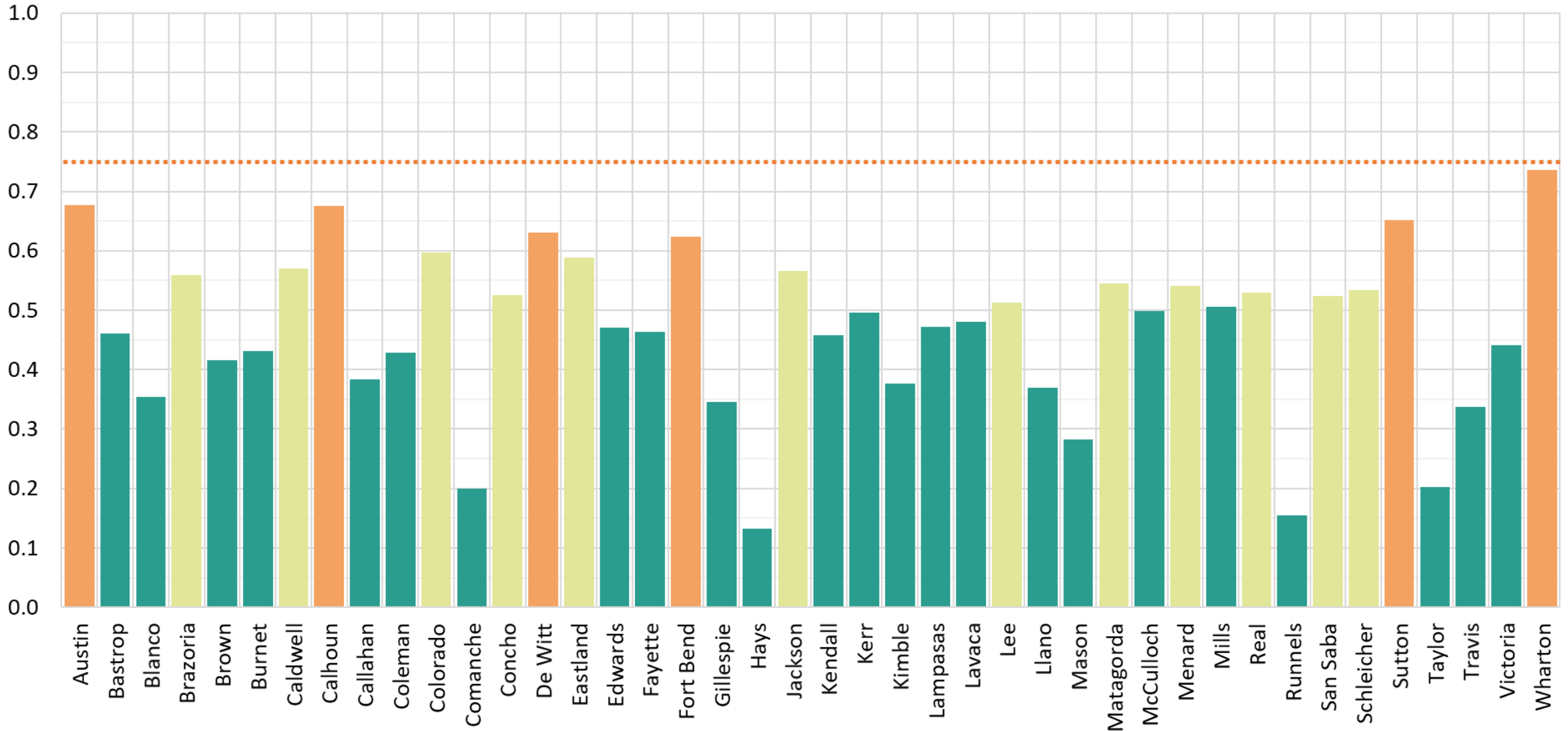
- Higher SVI indicates greater need for support before, during, and after a disaster
- CDC uses 15 factors to assess SVI

Socioeconomic Status	<ul style="list-style-type: none">• Below Poverty• Unemployed• Income• No High School Diploma
Household Composition & Disability	<ul style="list-style-type: none">• Aged 65 or Older• Aged 17 or Younger• Civilian with a Disability• Single-Parent Households
Minority Status & Language	<ul style="list-style-type: none">• Minority• Aged 5 or Older who Speaks English “Less than Well”
Housing Type & Transportation	<ul style="list-style-type: none">• Multi-Unit Structures• Mobile Homes• Crowding• No Vehicle• Group Quarters



TASK 2A – EXISTING CONDITION FLOOD RISK

Existing Condition Vulnerability Analysis



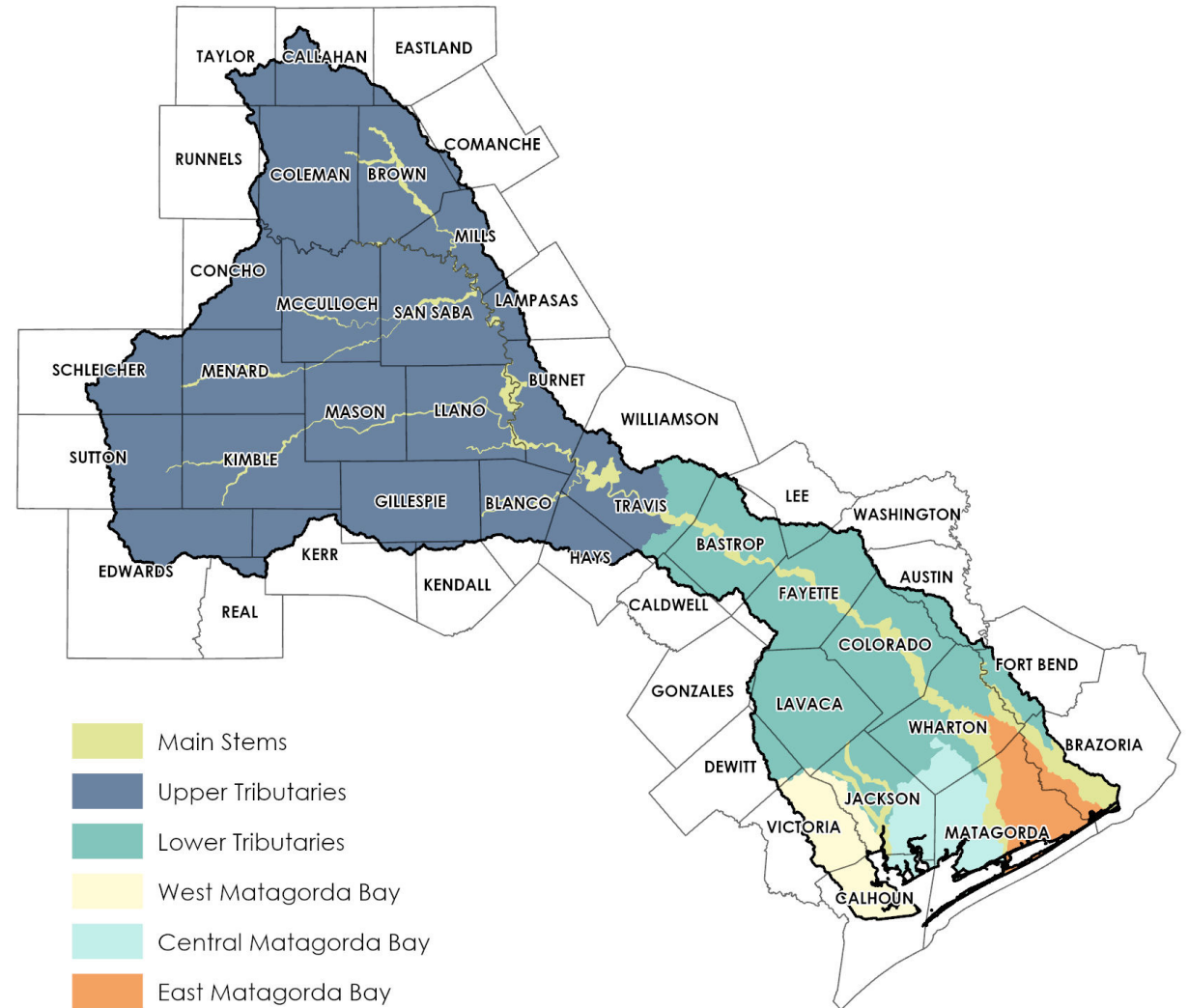
TASK 2B –FUTURE CONDITION FLOOD RISK

Preliminary Floodplain Quilt

Potential Future Condition Flood Risk

- Utilize existing condition 0.2% annual chance event (500-year) floodplain
 - Future 100-year = Existing 500-year
- Floodplain buffer: floodplain width increase
 - Future 500-year = Future 100-year plus delta derived from computation between the existing 100-year and 500-year

Buffer Region	Average Buffer
Main Stems	260 feet
Upper Tributaries	15 feet
Lower Tributaries	70 feet
West Matagorda Bay	75 feet
Central Matagorda Bay	315 feet
East Matagorda Bay	405 feet



TASK 4A – FLOOD MITIGATION NEEDS ANALYSIS

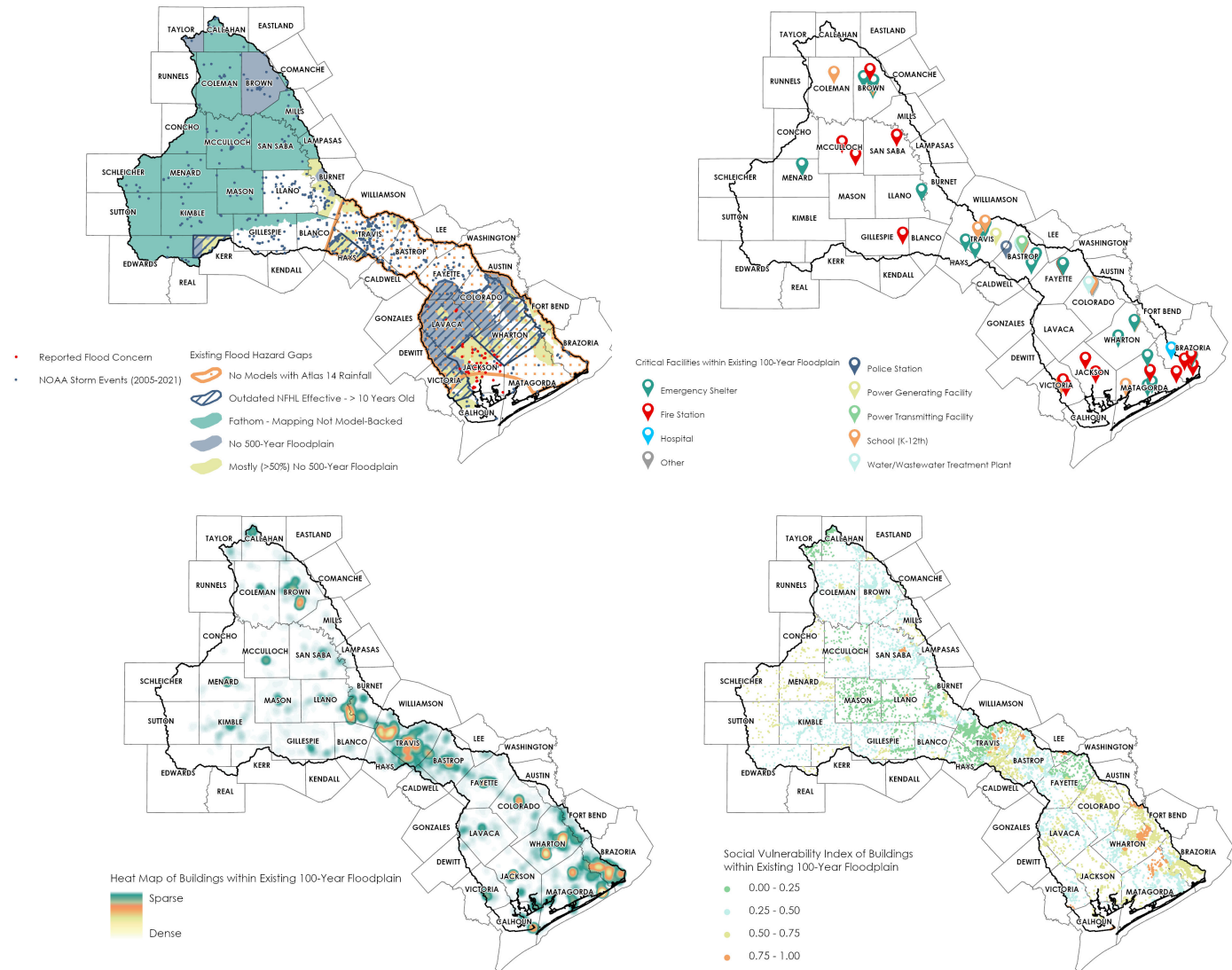
Status and Outlook

Preliminary Greatest Risk and Need

- Exposure – What is at Risk?
 - Flood Hazard Gaps
 - Infrastructure Hotspots
 - Land Cover Types

- Vulnerability – Who is at Risk?
 - Populations

- What is the Impact?
 - Critical Infrastructure
 - Resilience Factors (SVI)





Look-Ahead

2022 RFPG MEETINGS – THROUGH JULY 2022

March

- No RFPG meeting
- 3/9/22 Technical Committee Meeting

April

- 4/7/22 RFPG Meeting
 - Present and discuss final Task 4B lists of potentially feasible STUDIES, STRATEGIES, and PROJECTS
 - Present and discuss Task 12 recommendation of STUDIES to receive additional analysis
 - Present and discuss Task 5 preliminary recommendations of STUDIES, STRATEGIES, and PROJECTS
 - Present and discuss preliminary results and/or recommendations re: Task 3B goals performance measures, Task 7 flood preparedness, Task 8 flood management and mitigation policies and Task 9 flood infrastructure finance
- 4/13/22 Technical Committee Meeting
- 4/28/22 Technical Committee Meeting

2022 RFPG MEETINGS – THROUGH JULY 2022

May

- 5/2/22 RFPG Meeting
 - Present and discuss Task 5 preliminary recommendations of potential STUDIES, STRATEGIES, and PROJECTS
 - Present and discuss draft results and/or recommendations re: Task 3B goals, Task 7 flood response information and activities, Task 8 flood management and mitigation policies, and Task 9 flood infrastructure finance
 - Present and discuss preliminary results of Task 6A impacts of Regional Flood Plan and Task 6B contribution to and impacts on water supply development
- 5/11/22 Technical Committee Meeting
- 5/25/22 Technical Committee Meeting

June

- 6/9/22 RFPG Meeting
 - Approve recommendations - Task 5, Task 8, and Task 9
 - Present and review preliminary draft initial Regional Flood Plan
- 6/16/22 Technical Committee Meeting
- 6/30/22 Technical Committee Meeting

2022 RFPG MEETINGS – THROUGH JULY 2022

July

- 7/7/22 RFPG Meeting
 - Present and review initial draft Regional Flood Plan
- 7/11/22 Technical Committee Meeting
- 7/18/22 RFPG Meeting
 - Adopt and approve submittal of initial draft Regional Flood Plan (due to TWDB August 1, 2022)
 - Discuss next steps of Regional Flood Plan adoption and Regional Flood Plan amendment



Wrap Up

Region 10 Lower Colorado-Lavaca RFPG

- 10. Accept public input on an initial flood hazard map(s) to identify additional flood hazards in the Lower Colorado-Lavaca Flood Planning Region that may not have been identified on the initial map(s)**

Flood risk map posted online:

<https://www.lowercoloradolavacaflood.org/documents-for-public-view-1>

Region 10 Lower Colorado-Lavaca RFPG

- 11. Discussion and potential action to approve submittal of Technical Memorandum No. 2 to the Texas Water Development Board on or before March 7, 2022**

Region 10 Lower Colorado-Lavaca RFPG

12. Public comments – limit 3 minutes per person

13. Consider date and agenda items for next meeting

14. Adjourn