

Region Three Flood Planning Update

SAME Conference

February 28, 2025



Outline

I. OVERVIEW OF FLOOD PLANNING PROCESS

II. HIGHLIGHTS FROM FIRST ROUND

III.2023 AMENDMENT PROCESS

IV. FLOOD INFRASTRUCTURE FUND (FIF) PROGRAM

I. AMENDING THE PLAN

V. SECOND ROUND OF PLANNING

I. TIMING AND WORKPLAN

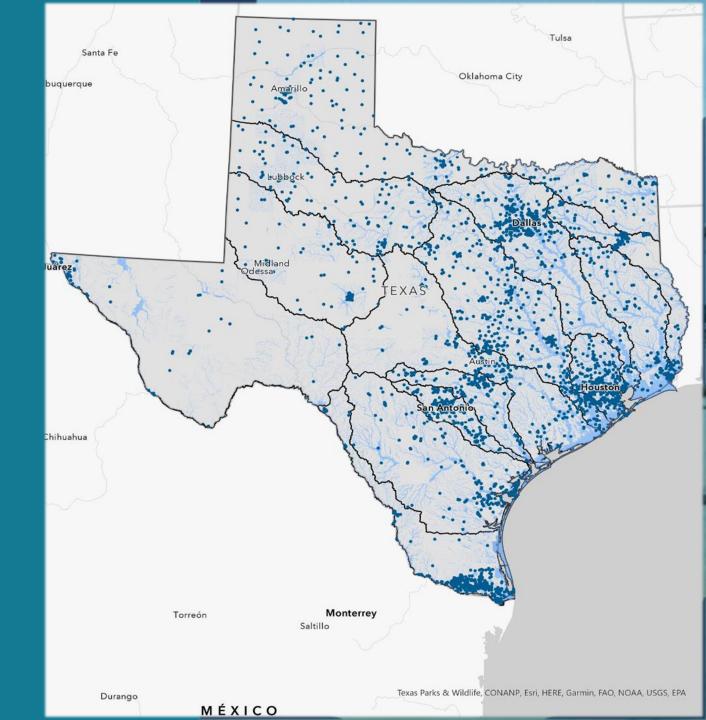
II. COMPARISON OF WORKPLANS FROM 1ST AND 2ND ROUNDS

III.REGION STATS





Overview of Flood Planning Process



State Legislature Reacts

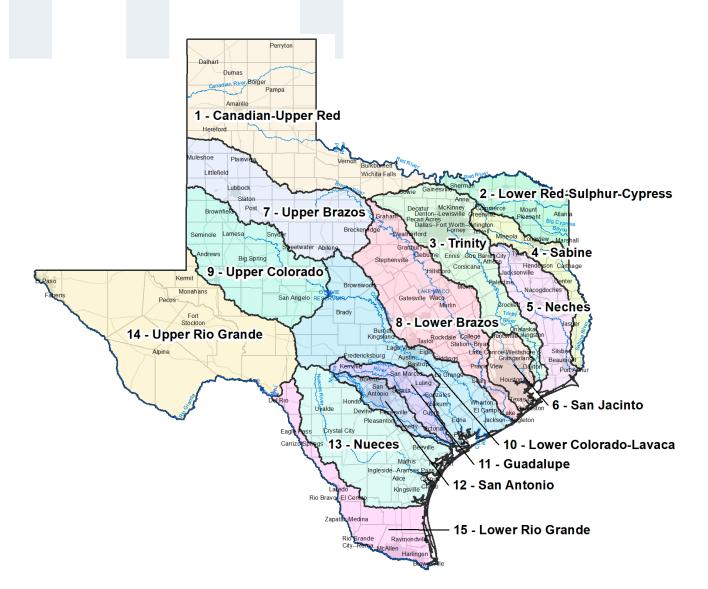
- In 2019 Texas Legislature passed SB 8 to established the first-ever State Flood Plan
- SB 8 charged the TWDB with developing, implementing and overseeing the process
- Regional flood planning is similar to the regional water planning process





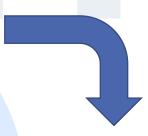
Regional Flood Planning Groups (RFPGs)

- 2019 SB 8 established State Flood Planning Process
- 15 regions
- 12 interest groups for each region
 - Variety of interest categories
 - Appointments considered geographic representation
- Prepare and submit Regional Flood Plans



Regional Flood Planning (RFP) Cycle

Flood Risk Analysis



The initial RFPs shall be delivered on or before January 10, 2023

State Flood Plan

5-year cycle

Flood Risk Reduction Activities



Regional Flood Plan



The initial SFP was approved on August 15, 2024

4,600 Solutions \$54.5BB



Key Plan Components - Flood Mitigation Actions



FME - Flood Management Evaluations

Study to assess flood risk and evaluate alternative solutions



FMP - Flood Mitigation Projects

Project that has non-zero capital costs and mitigates flood hazards to life or property

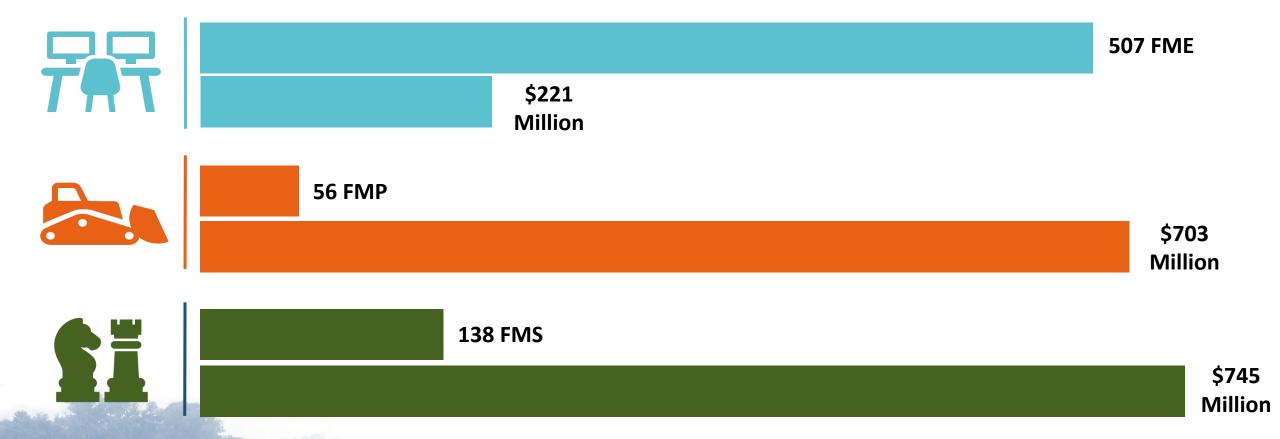


FMS - Flood Management Strategies

Plan to reduce flood risk or mitigate flood hazards to life or property

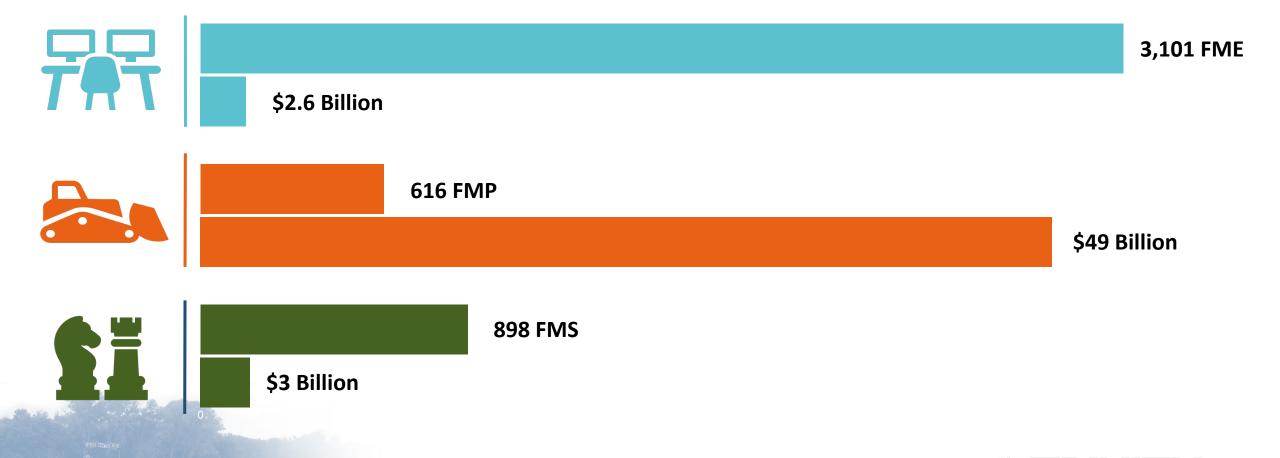


Flood Mitigation Actions – Trinity Region



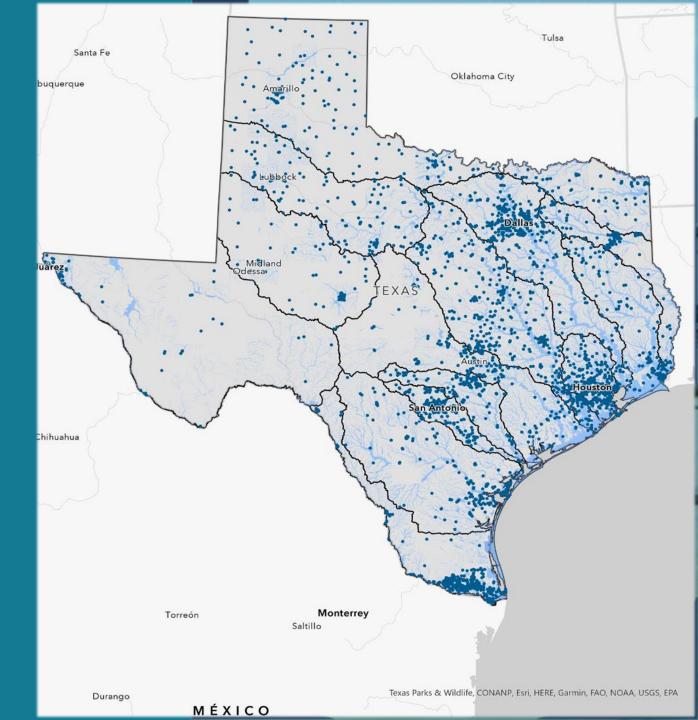


Flood Mitigation Actions – Statewide





2023 Regional Plan Amendment



Amending Regional and State Plans

- Regions can amend their plans at any time
- Can use Second Cycle funding for up to 2 revisions
- Submit to TWDB.
 - Amendments will be taken to Commissioners for approval as appropriate.



Amendment Request Summary



8 FMEs9 Entities Submitting



29 FMPs 9 Entities Submitting



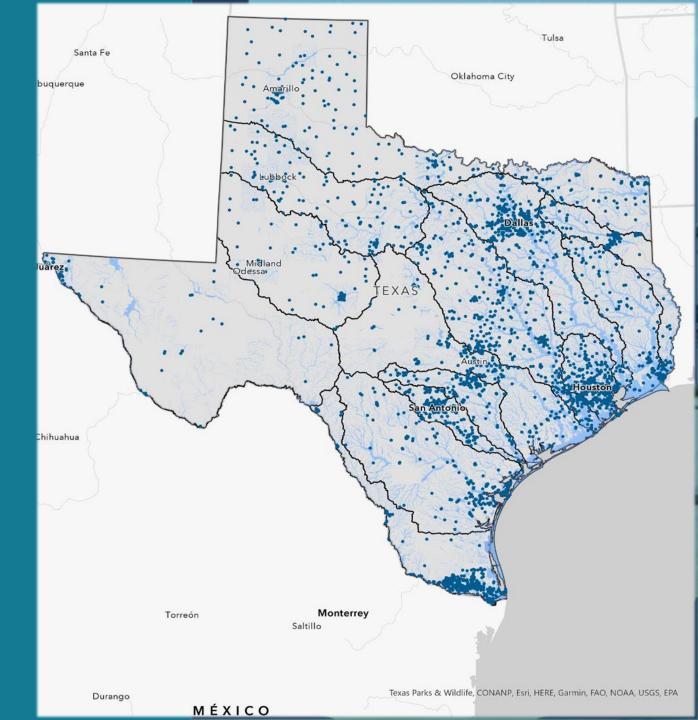
FMSs – 6 received 2 Entities Submitting

- Received items have not been reviewed in entirety.
- Some FMP submittals will require additional information or will be included as FMEs.
- Submittals will be reviewed over the coming weeks to confirm substantial completion.





Flood Infrastructure Fund (FIF)



Flood Infrastructure Fund

Activities included in the State Plan are eligible for low interest loans or grants

Created by an amendment to the TX Constitution

Application for SFY 2024-2025 is closed

To qualify for 2026:

- Have submitted information to Region for inclusion in amendment
- Deadline to R3RFPG was December 1, 2024

Next chance for a new Activity/Solution: 2030-2031



Flood Infrastructure Fund 2024-25 funding

Category	Percent	Total	15% Target for Federal Matching	
FME	25%	\$93,750,000	\$14,062,500	
FMP	65%	\$243,750,000	\$36,562,500	
FMS	10%	\$37,500,000	\$5,625,000	
TOTAL	100%	\$375,000,000	\$56,250,000	



Potential Changes to FIF

In 2023 SB 28 created the State Water Fund, later ratified via a Constitutional Amendment

Move Flood Infrastructure Fund (FIF) into Texas Water Fund Structure: Add FIF to the Water Fund structure thereby making it eligible to receive money out of the Water Fund, including from the constitutionally dedicated revenue stream.

Funding for new water supply projects, infrastructure repairs, upgrades and replacements, and flood projects will be distributed through NWSTF, SWIFT, FIF, the SRFs, etc., via loans and/or grants to local sponsors and/or public-private partnerships that will construct, own, operate, and maintain the desalination plants; produced water treatment plants; surface water sources; new reservoirs; replaced piping; new, upgraded, or repaired treatment facilities; flood infrastructure; and other new water infrastructure built using the dedicated funding. Locally sponsored projects are and will remain under TWDB supervision.



Flood Infrastructure **Fund Process**

Timing:

- State plan is adopted every five years
- Limit opportunities to amend the plan

MOU (FMS/FMP):

- Required (by legislation) IF any part of the project watershed lies outside applicant's jurisdiction
- Signed by all political subdivisions within watershed

BCR (FMP):

- Required for construction projects.
- Must score at least 1.0

Affidavit (all):

- Activity was developed in cooperation ting comments political subdivisions leld public meetings currently Accept March 10 mpared to any other currently accept meetings

Activity Included in Regional Plan

Activity Included in State Plan

Abridged Application

- TWDB reviews and prioritizes activities
- Flood Infrastructure Intended Use Plan (IUP)
 - SFY 2024-2025 IUP

Priority List

Scoring matrix

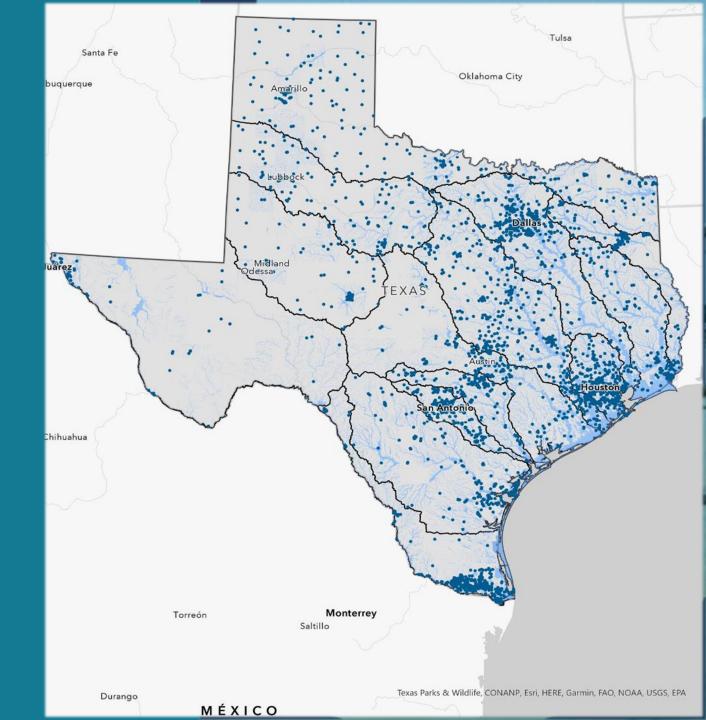
Full Financial Assistance Applications

Priority projects are invited to apply

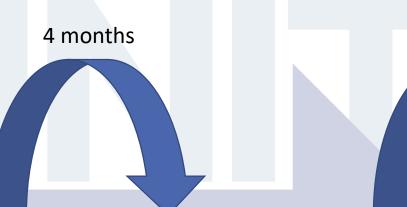




Regional Planning Second Cycle



Second Round Flood Planning



Initiate contracts

•July 2024

Technical Memorandum

- •September 19, 2025
- •January 7, 2026

FME list to TWDB

- •January 26, 2026
- •March 26, 2026

Draft Flood Plan

- •February 26, 2027
- •May 26, 2027

Final Regional Flood Plan

•January 10, 2028

Final State Flood Plan

19 months

•September 1, 2029

with potential able with a deliverable

~17 months

13 months

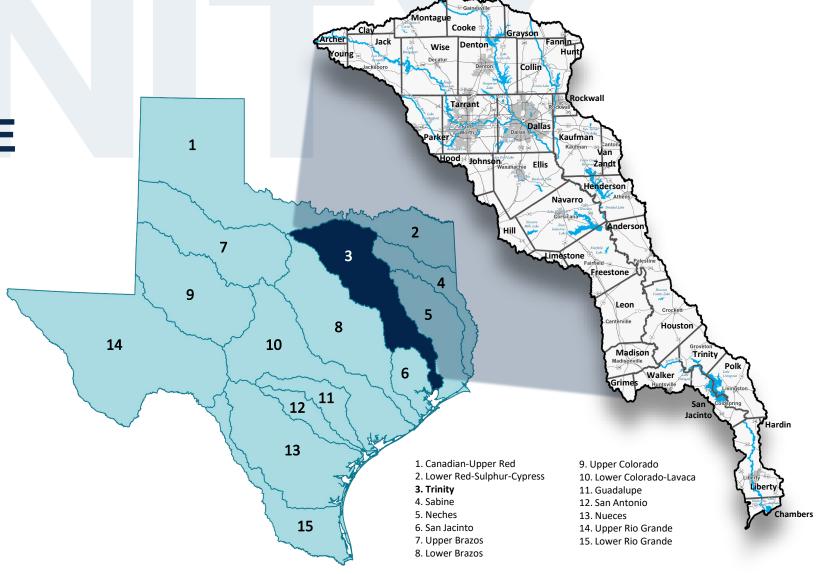
\$2.875M



Task		Description				
		2023 2028				
1		Planning Area Description				
2	Flood Risk Analysis					
2A	Existing Condition Flood Risk Analysis		Existing condition flood risk analyses			
2B	Future Con	dition Flood Risk Analysis	Future condition flood risk analyses			
3	Floodplain management practices, needs analysis and flood protection goals					
3A	Evaluation and Recommendations on Floodplain Management Practices		Evaluation and recommendations on floodplain management practices			
3B	Flood Mitigation and Floodplain Management Goals		Flood Mitigation Needs Analysis			
3C	Flood mitigation a	The RFPG shall utilize this task to perform a portion of the				
4			•			
4A	Flood Mi					
4B	Identification and Evaluation of Potentially Feasible Flood Ma					
4C	Prepare and Submit Technical Memorandum		Performance of Identified flood management evaluation			
5	Recommendation of Flood Management Evaluations and Flood Management Strategies and Associated Flood Mitigation Projects					
6	Plan impacts and contribution to water supply of the regional flood plan					
6A	Impacts of Regional Flood Plan		Impacts of Regional Flood Plan			
6B	Contributions to a Collect					
7	FMPs	FMPs regarding implementation of previously recommended				
8	FMXs					
9		Floor Intrastructure Financing Analysis				
10		Public Participation and Plan Adoption				
11	Outread	h and Data Collection	Implementation and comparison to previous regional flood plan			

TRINITY REGION, BY THE NUMBERS

- 38 COUNTIES
- ~18,000 SQUARE MILES
- ~27% within the 1% annual chance flood event





TRINITY REGION, BY THE NUMBERS

ANTICIPATED POPULATION GROWTH

20+%

forecasted increase in population between 2024 and 2050

TRINITY RIVER BASIN FEMA FLOOD CLAIMS (1988 – SEPT 2024)

over 5,800

Flood Claims

\$426.5 M

Flood Claims Paid

FLOOD EVENTS (1980-2024)

Over 150+ major flood events have occurred in the last 25 years with significant losses to life and property.

AGRICULTURAL FLOOD LOSSES

Significant historical flood losses, most recently 2015 and 2016

FLOOD-RELATED PRESIDENTIAL DISASTER DECLARATIONS (1966 – JULY 2024)

40

Major Disaster Declarations

6

Emergency Declarations

35% of Disaster Declarations and 50% of Emergency Declarations have occurred within the region since 2008





TRINITY REGION, BY THE **NUMBERS**

 Documented storm events and "Flash Flood Alley"

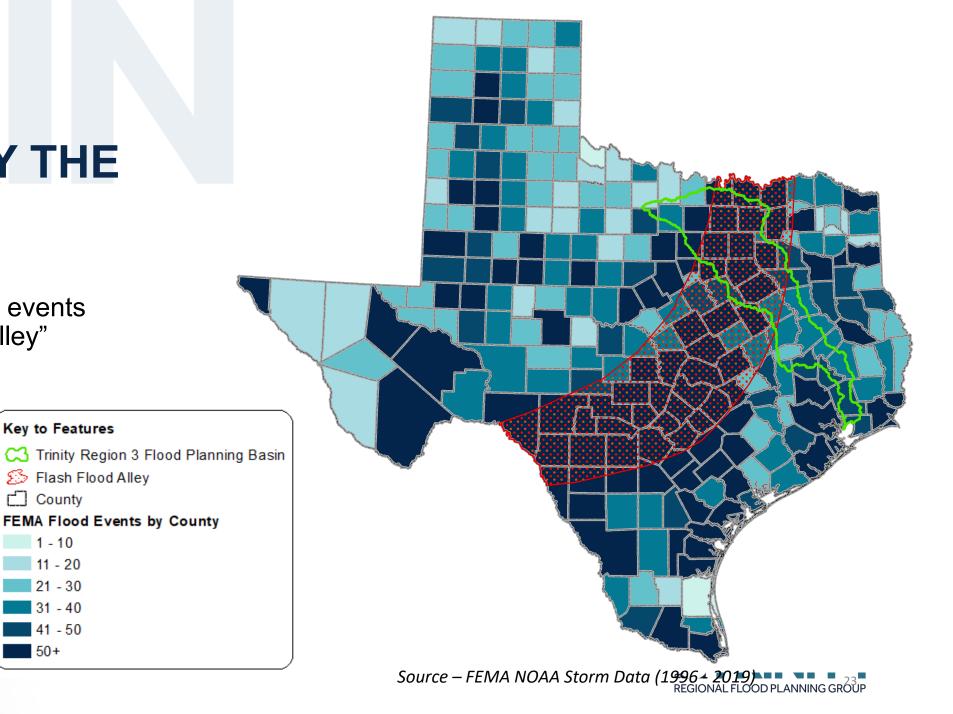
Key to Features

County

1 - 10

31 - 40 41 - 50

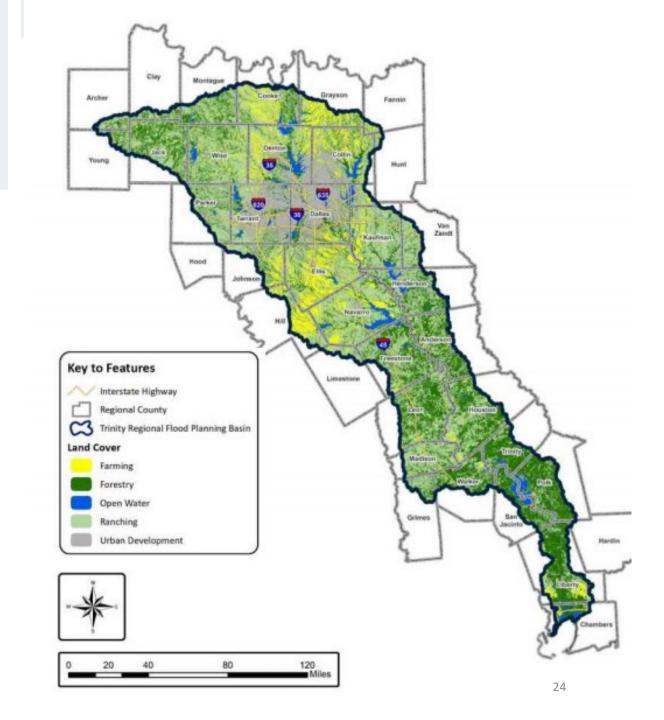
55 Flash Flood Alley



TRINITY REGION, BY THE NUMBERS

Upper Basin – D/FW Service Based Economy Important agricultural areas throughout

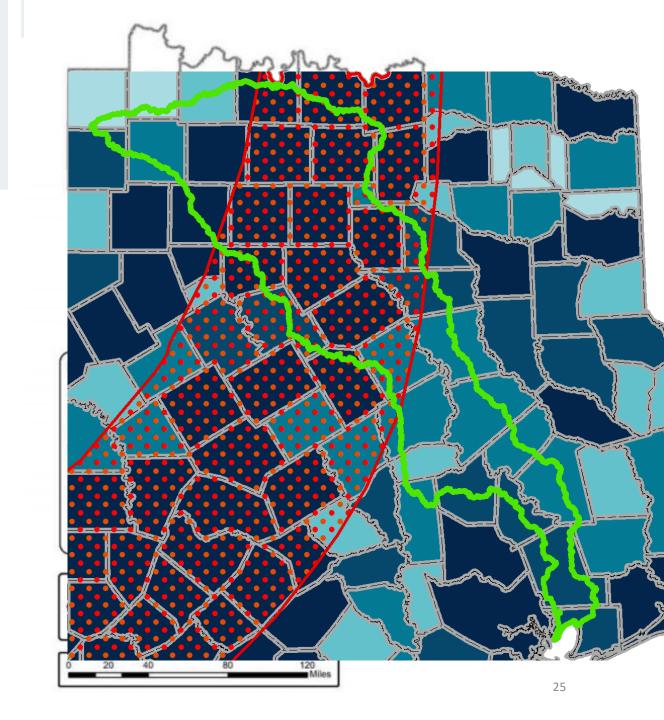
- Row crops in Blackland prairies
- Ranchland in middle Trinity
- Rice in lower Trinity



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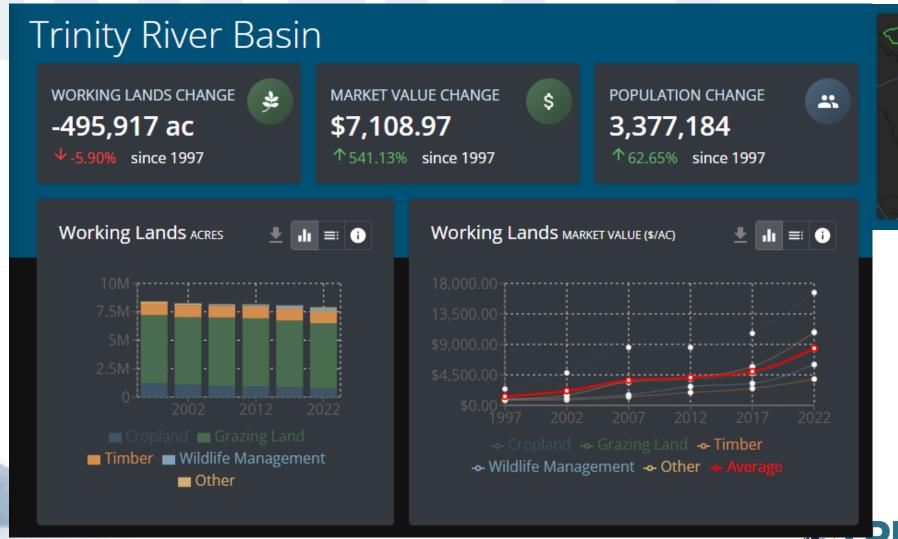


Blackland Prairie





AGRICULTURAL, RANCHING AND NATURAL AREAS MANAGEMENT

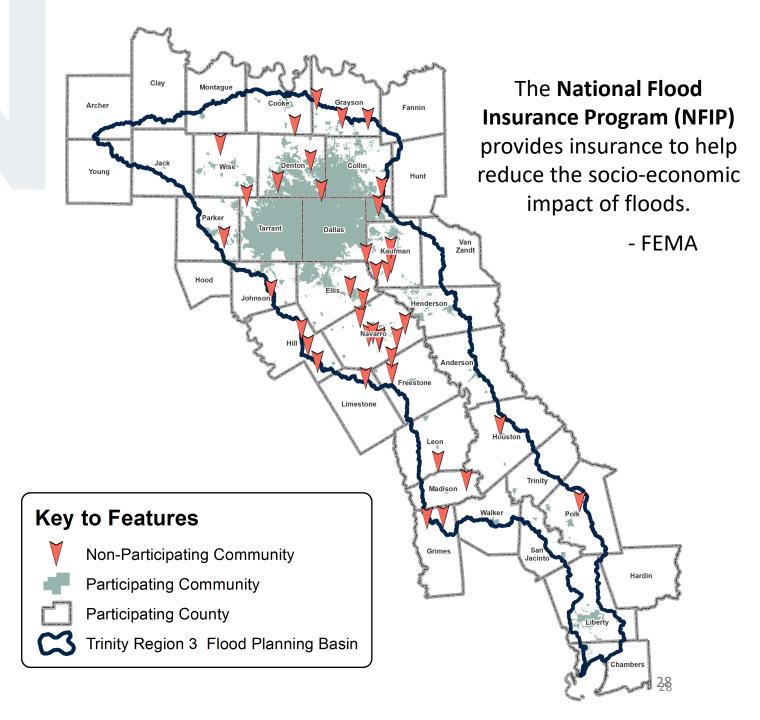


Austin

NFIP Participation

77%

of Communities Participating in NFIP



Existing Conditions Flood Risk Assessment

FLOOD TYPE

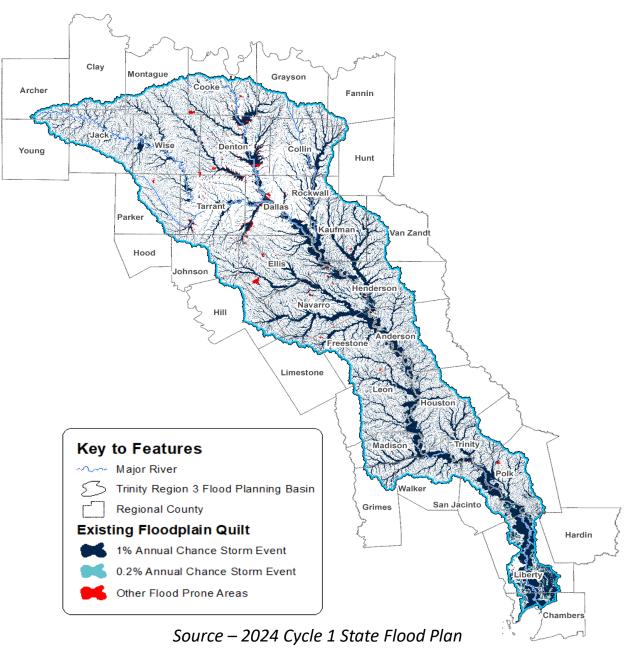
- Riverine
- Coastal
- Pluvial including Urban flooding

FLOOD EVENT TYPES

- 100-Year
- 500-Year

DATA SOURCES

- TWDB Flood Quilt
- FEMA
- Regional/Community Data
- FATHOM



Future Conditions Flood Risk Assessment

FLOOD TYPE

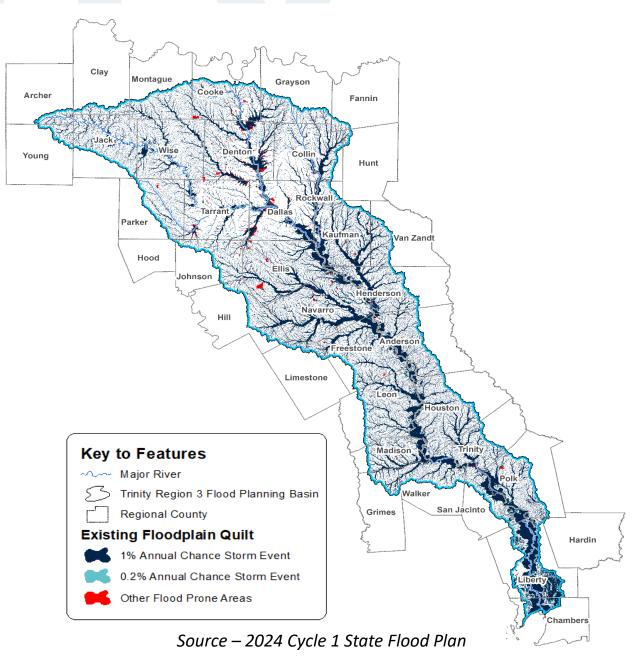
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FLOOD EVENT TYPES

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DATA SOURCES

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2023 RFP Future Flood Risk Analysis

<u>1%</u>

Minimum: Current 1%

Maximum: Current 0.2%

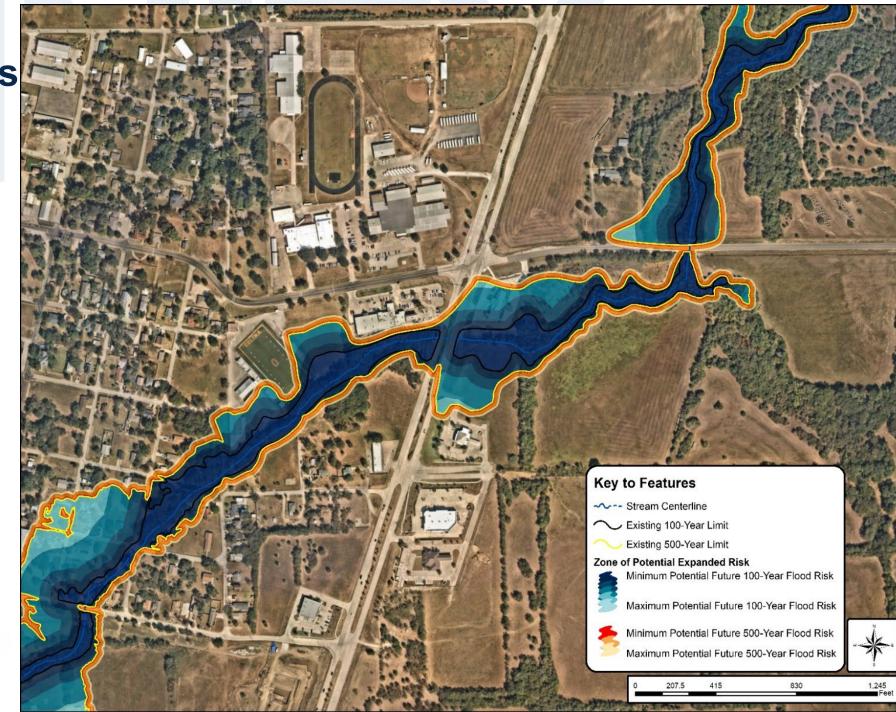
0.2%

Minimum: Current 0.2%

Maximum: Current plus 40 ft.

TWDB Future Conditions FATHOM dataset: In progress

- Land Use
- Precipitation Changes
- Sea Level Rises
- Subsidence



Data Collection Tool

https://trinity.halff.com/

December 12, 2024

- Data collection tool goes live
- Open for 8 weeks
- Adds to data collected during previous cycle and amendment

February 11, 2025

- "Soft deadline" for data collection
- Information received after this date may not be included in 2028 Flood Plan

March, 2025

- Close the data collection tool; entities no longer able to include information.
- RFPG interested in leaving tool open?

Data collected in previous cycle to be carried forward if no new, improved information is available.

LOOK-AHEAD

March 12, 2025

- Approve amendment request to the 2023 State Flood Plan
- Present Chapter 1 for approval
- Determine approach for ID-ing FMXs (Task 4A)
- Determine approach for selecting FMEs to upgrade to FMPs (4A)

April 1, 2025

Consultant sends amendment request to TWDB

May, 2025

- Present results existing exposure analysis (Task 2A)
- Present results future exposure analysis (Task 2B)
- Present Chapter 2 for approval
- Approve selection of FMEs for FMP Conversion (4A)

July, 2025

- Present results of Tasks 3A, 3B, 3C
- Present Chapter 3 for approval
- RFPG Elections

September, 2025

- Present Task 4A for approval
- Present Tech Memo for approval (Task 4B) due to TWDB Sept 19, 2025

Notes: deadline.

Yellow highlight indicates hard





Thank you for your time!

Glenn Clingenpeel

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