

Region 8 - Lower Brazos

Regional Flood Planning Group

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP

Thursday, August 22, 2024

10:00 AM

Brazos River Authority

4600 Cobbs Dr., Waco, TX 76710

Region 8 - Lower Brazos

Regional Flood Planning Group

- 1. Call Meeting to Order and Attendance**
- 2. Public Input - comments on agenda items or flood planning issues (limited to 3 minutes each)**
- 3. Consent Agenda**
 - 1. Approval of Minutes from the April 25, 2024 meeting**
 - 2. Approval and Certification of the Finance Report Expenditures**

Meeting Minutes

REGION 8 - LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP

Brazos River Authority, Lt. Gen. Phillip J. Ford Central Office,
4600 Cobbs Dr. Waco, TX 76710

10:00 a.m. – Thursday, April 25, 2024

Meeting agenda, materials, and audio recordings are available online at www.lowerbrazosflood.org

1. Call Meeting to Order and Attendance

Chair Alysha Girard presided over the meeting in Waco, TX. Ms. Girard called the meeting to order at 10:00 am.

Susan Alford	A	David Lilly	P
Anthony Beach	P	Tim Finley	P
Carl Burch	A	Matt Phillips	P
Sujeeth Draksharam	P	Mark Vogler	P
Charlotte Gilpin	P	Brandon Wade	P
Alysha Girard	P	Claudia Wright	A

Quorum Present: **Yes**. A quorum is 7 of 12 voting members.

2. Public Input - Public comments on agenda items or flood planning issues (limited to 3 minutes each)

Alysha Girard opened the floor for public comments. Lisa Gossett provided public comments to the group.

3. Consent Agenda

3.1. Approval of Minutes from the February 22, 2024 meeting

3.2. Report, Approval and Certification of the Finance Report Expenditures

Alysha Girard opened the floor for approval of the consent Agenda Items. The consent agenda items were approved as presented. Sujeeth Draksharam made the motion to approve the consent agenda items and Brandon Wade seconded the motion. The motion passed unanimously.

4. Discussion and possible action on the recommendation from the RFQ committee for of selection of a technical consultant to develop the 2028 Lower Brazos Regional Flood Plan.

Motion made by Anthony Beach to approve the committee's recommendation on the selection of Half Associates to serve as the technical consultant for the second cycle of regional flood planning to develop the 2028 Lower Brazos Regional Flood Plan. The motion was seconded by Brandon Wade. Motion passed unanimously.

5. Discussion and possible action on the process for future Amendments to the 2023 Regional Flood Plan.

Alysha Girard opened the floor for discussion. No action was taken at this time.

6. Report from:

6.1. Texas Water Development Board (TWDB) staff

Jake Madewell provided the TWDB Report to the RFPG.

6.2. Regional Planning Sponsor

Pam Hannemann provided the Sponsor report.

6.3. Lower Brazos RFPG Liaisons and Chair

Chair gave a brief report.

7. Confirm next meeting date and discuss new business to be considered at next meeting

The RFPG will likely skip the June meeting due to there not being any agenda items to consider at this meeting. The

next regular meeting will be on Thursday, August 22, 2024.

8. Adjourn

Alysha Girard adjourned the meeting at 10:28 AM.

Approved by the Region 8 Lower Brazos RFPG at the meeting held on [month], [date], 2024.

Matt Phillips, Secretary

Alysha Girard, Chair

Region 8 - Lower Brazos

Regional Flood Planning Group

4. Discussion and possible action on the report from the technical consultant

REGION 8

Lower Brazos Regional Flood Plan

TECHNICAL CONSULTANT UPDATE

AUGUST 22, 2024



Agenda



Technical Consultant Team



Regional News and Events



2028 Regional Flood Plan Overview



2024 Regional Flood Plan Amendment

Technical Consultant Team

RYAN LONDEEN, PE, CFM (HALFF)

Technical Consultant Team



Ryan Londeen, PE, CFM
Project Manager



Scott Rushing, PE, CFM
Deputy Project Manager



Jenna Blohm, EIT, CFM
Assistant Project Manager

CONSULTANT TEAM



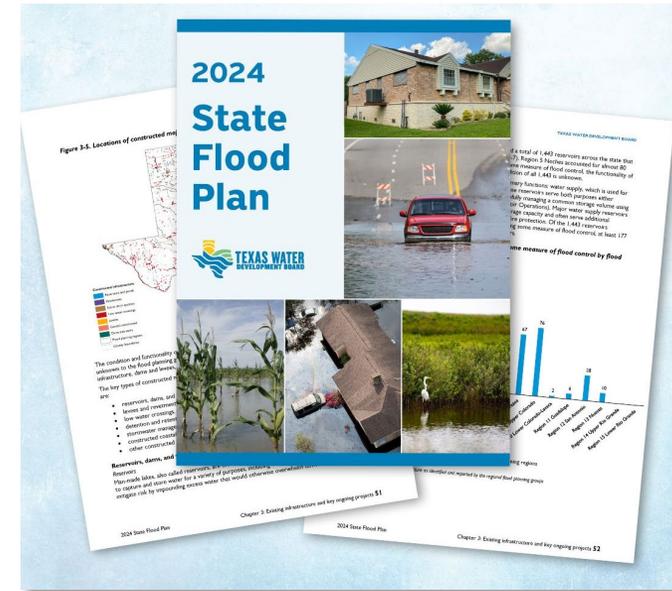
Regional News and Events

RYAN LONDEEN, PE, CFM (HALFF)

2024 State Flood Plan

Adopted by TWDB on August 15, 2024

The plan will be brought to the State Legislature by September 2024



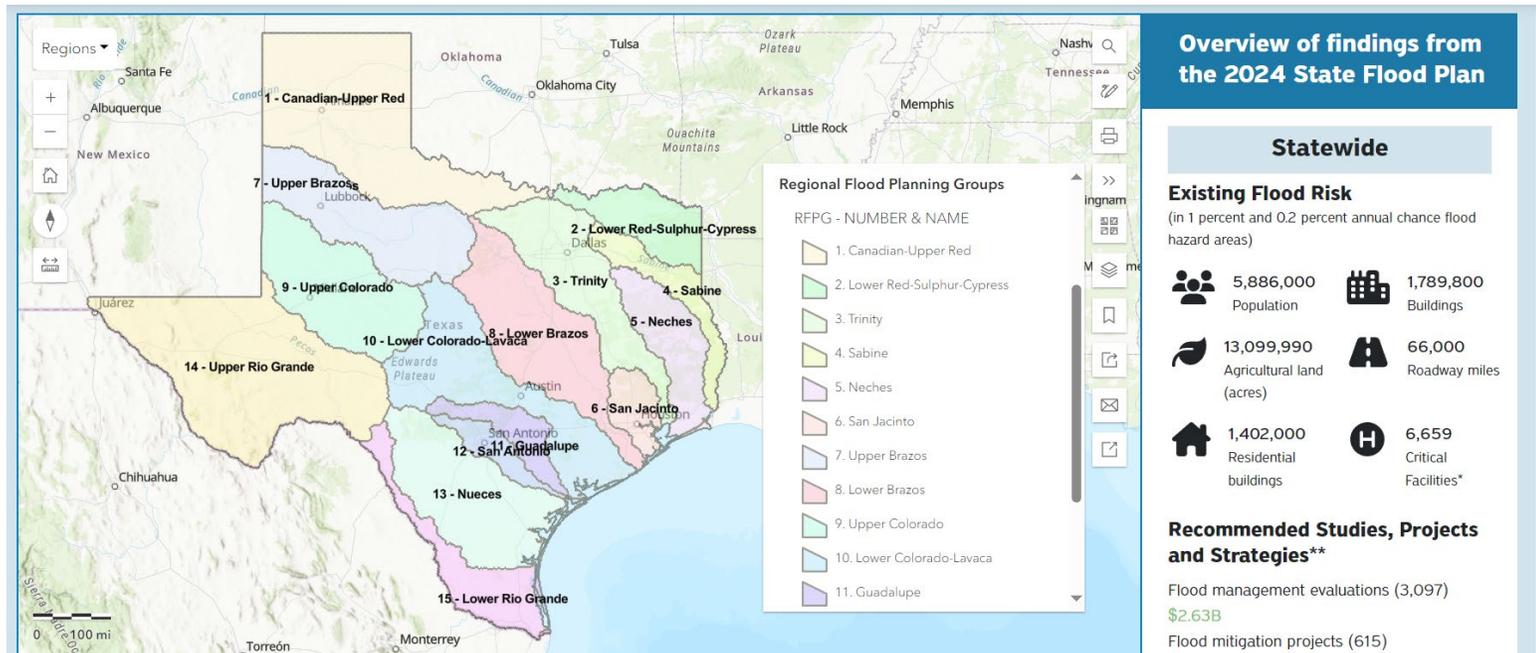
2024 State Flood Plan

texasstatefloodplan.org

▶ Read the 2024 State Flood Plan

Interactive State Flood Plan Viewer

View and download the extensive dataset generated by the statewide flood planning program, including flood risk and recommended flood risk reduction solutions.



- Existing Flood Risk
- Future Flood Risk

State of Texas

Interactive State Flood Plan Viewer



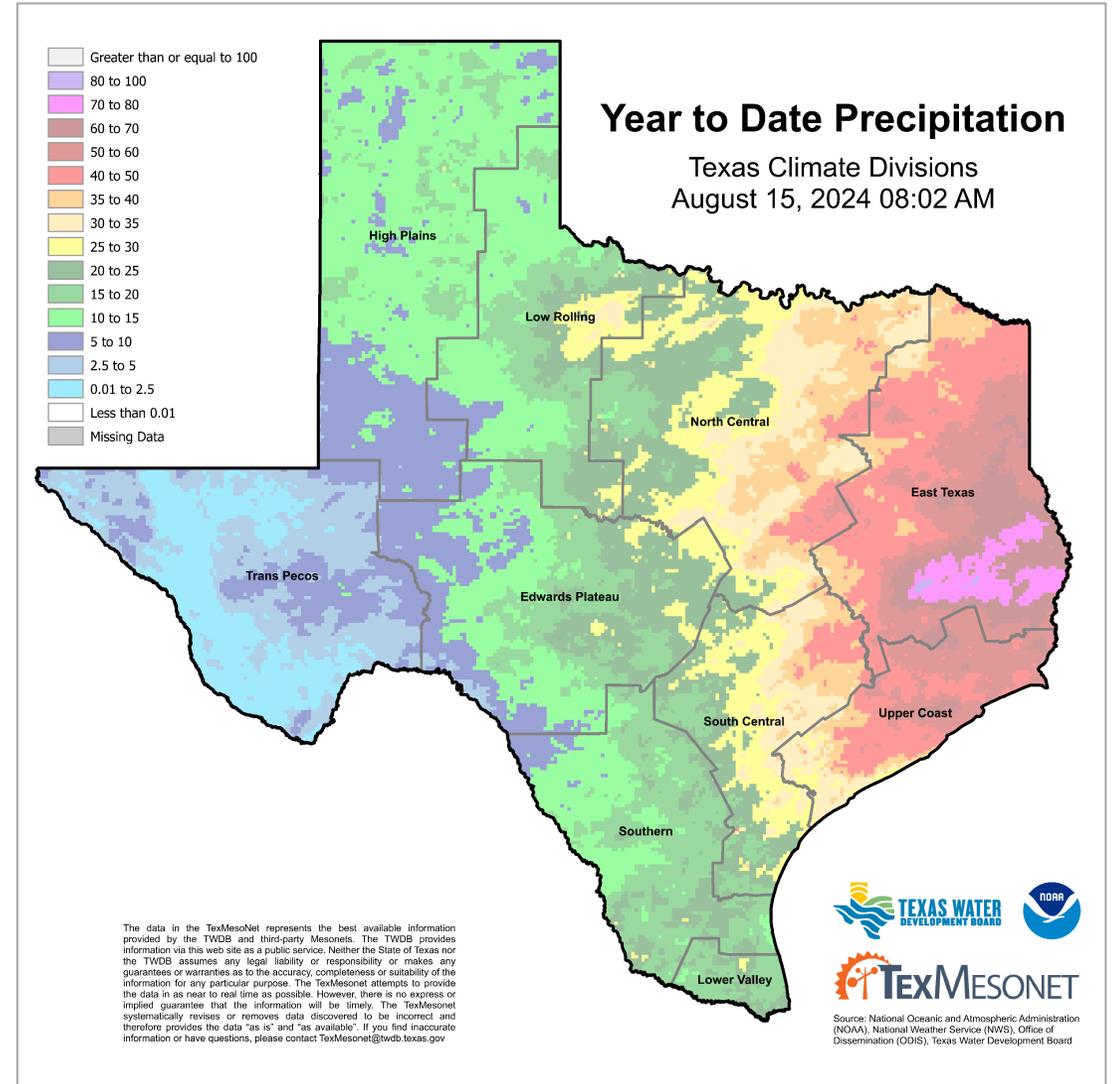
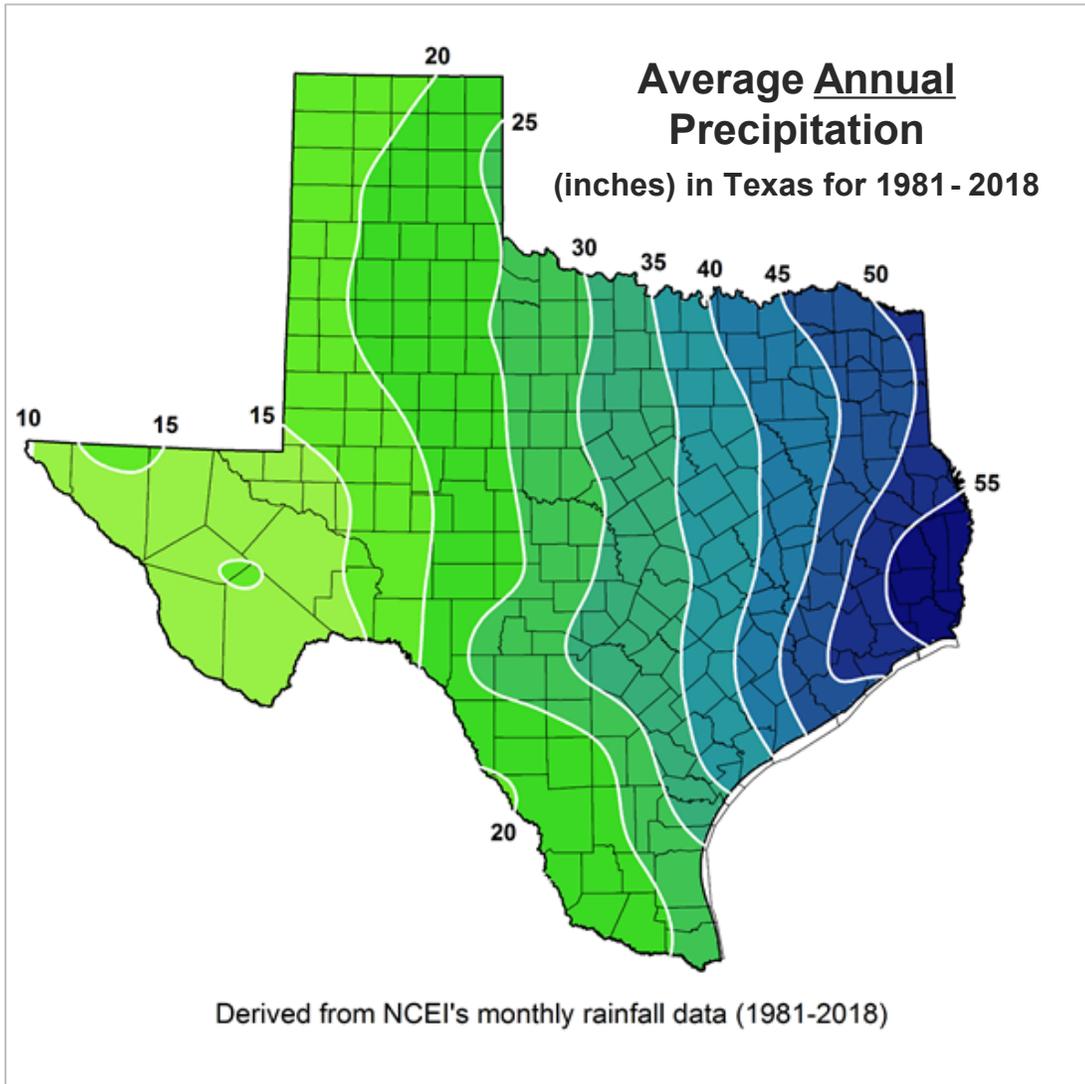
2024-2025 Flood Infrastructure Fund

2024-2025 FIF

- **\$375 million** funding dollars anticipated to be available during 2024-2025 cycle
- Only FMXs within the State Flood Plan were eligible for submittal
- **FIF Abridged Applications** were due April 15, 2024
- Qualifying “FMX”s will be scored and prioritized
- FMS prioritization list has already been published
- Top scoring FMXs will be sent invitation to submit complete financial assistance applications

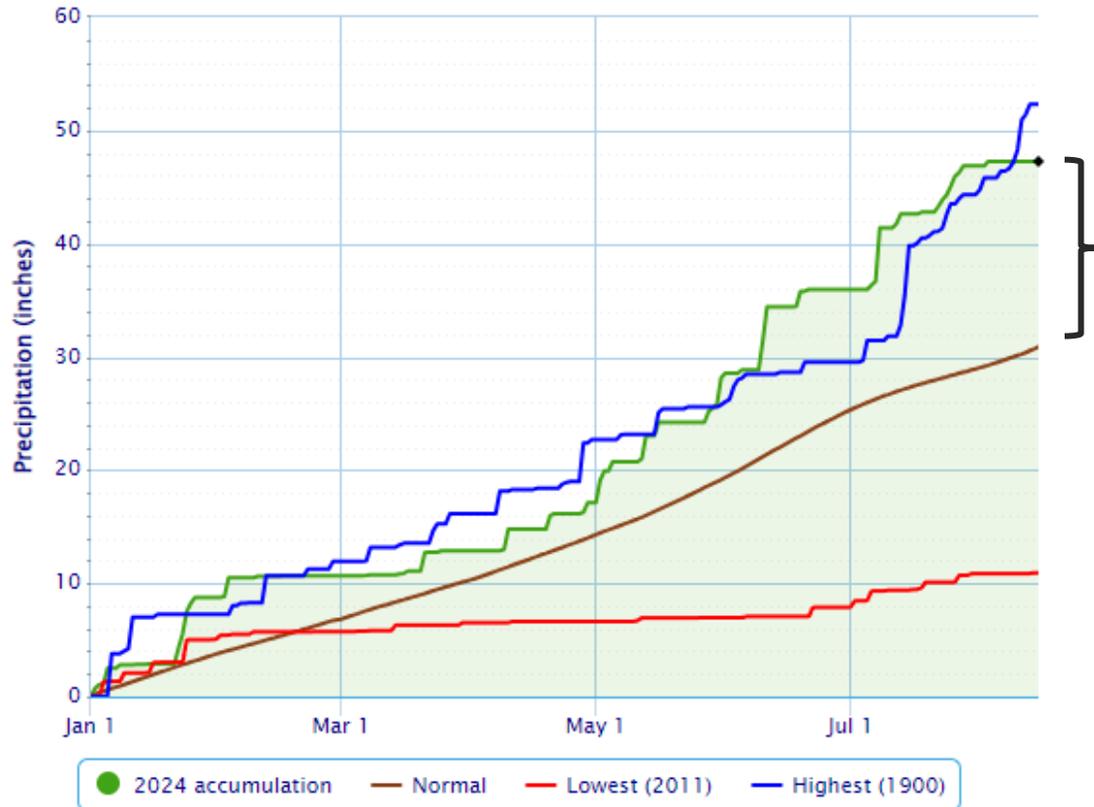


2024 Weather



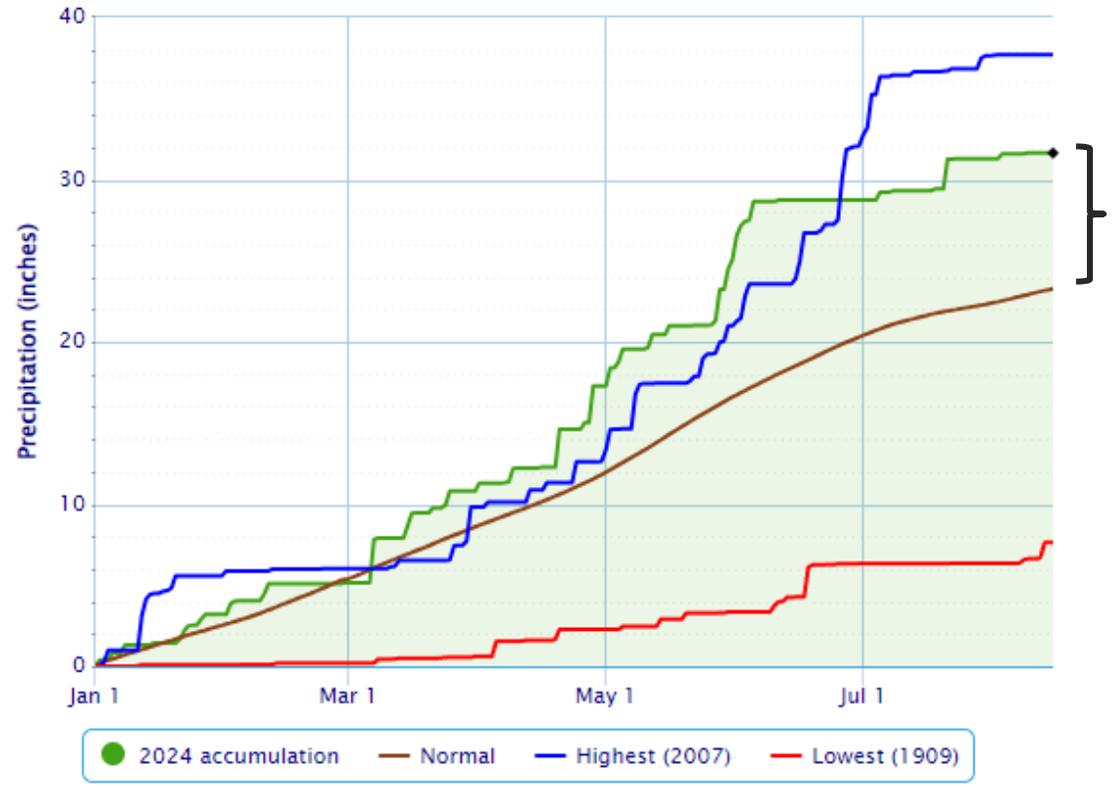
2024 Weather

Lower Basin (Houston)



Powered by ACIS

Upper Basin (Dallas / Fort Worth)



Powered by ACIS

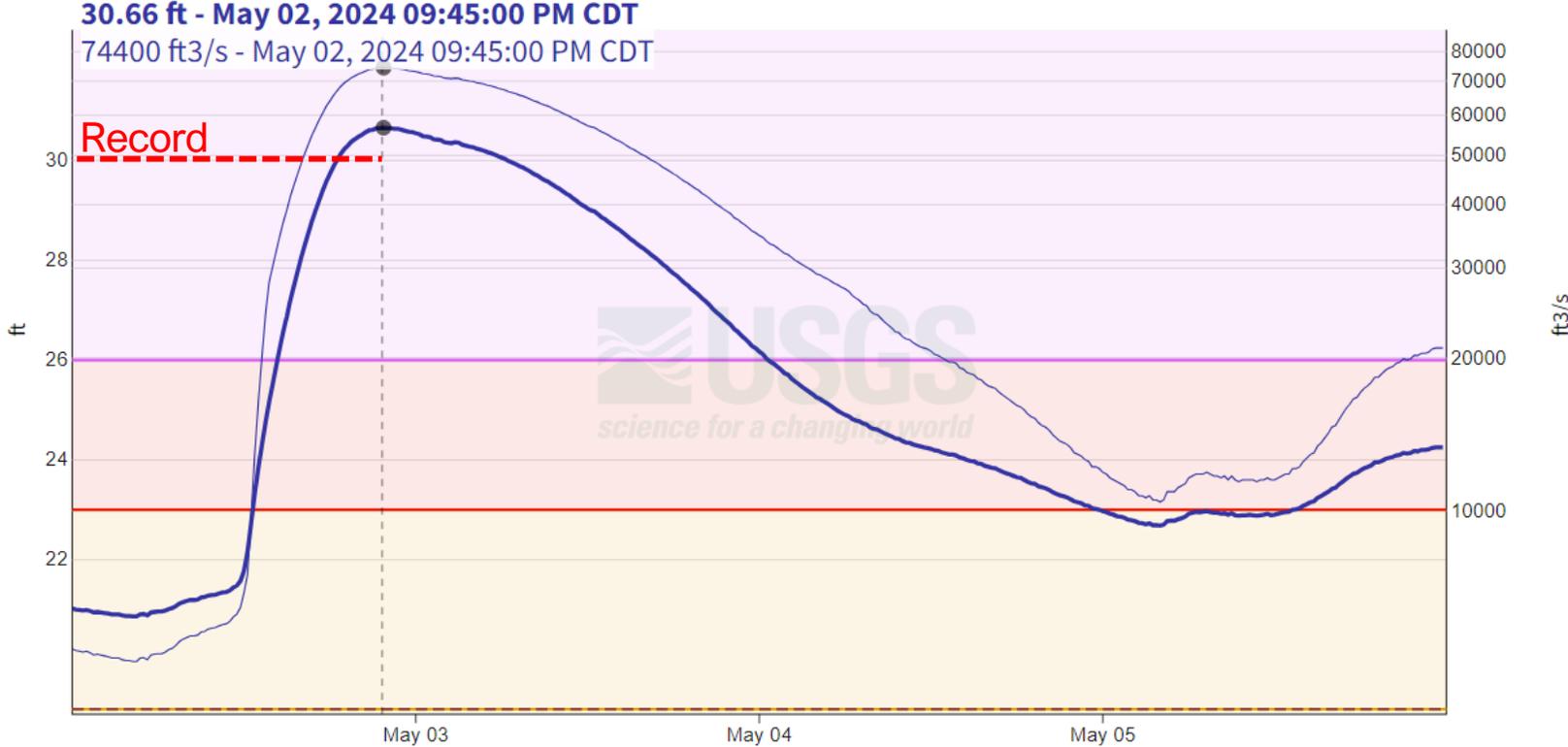


Navasota Rv nr Easterly, TX - 08110500

May 2, 2024 - May 5, 2024

Gage height, feet

Discharge, cubic feet per second



2024 Weather

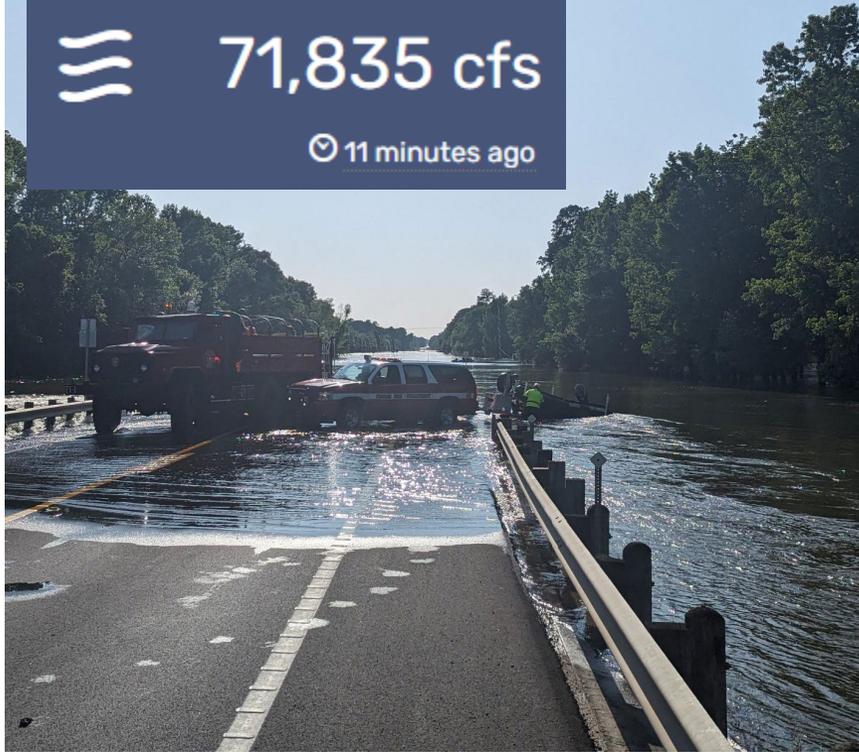
Navasota River received a particularly extreme rainfall event that resulted in record flood levels in the river

🚩 Lake Conroe
➡️ SJRA Lake Release



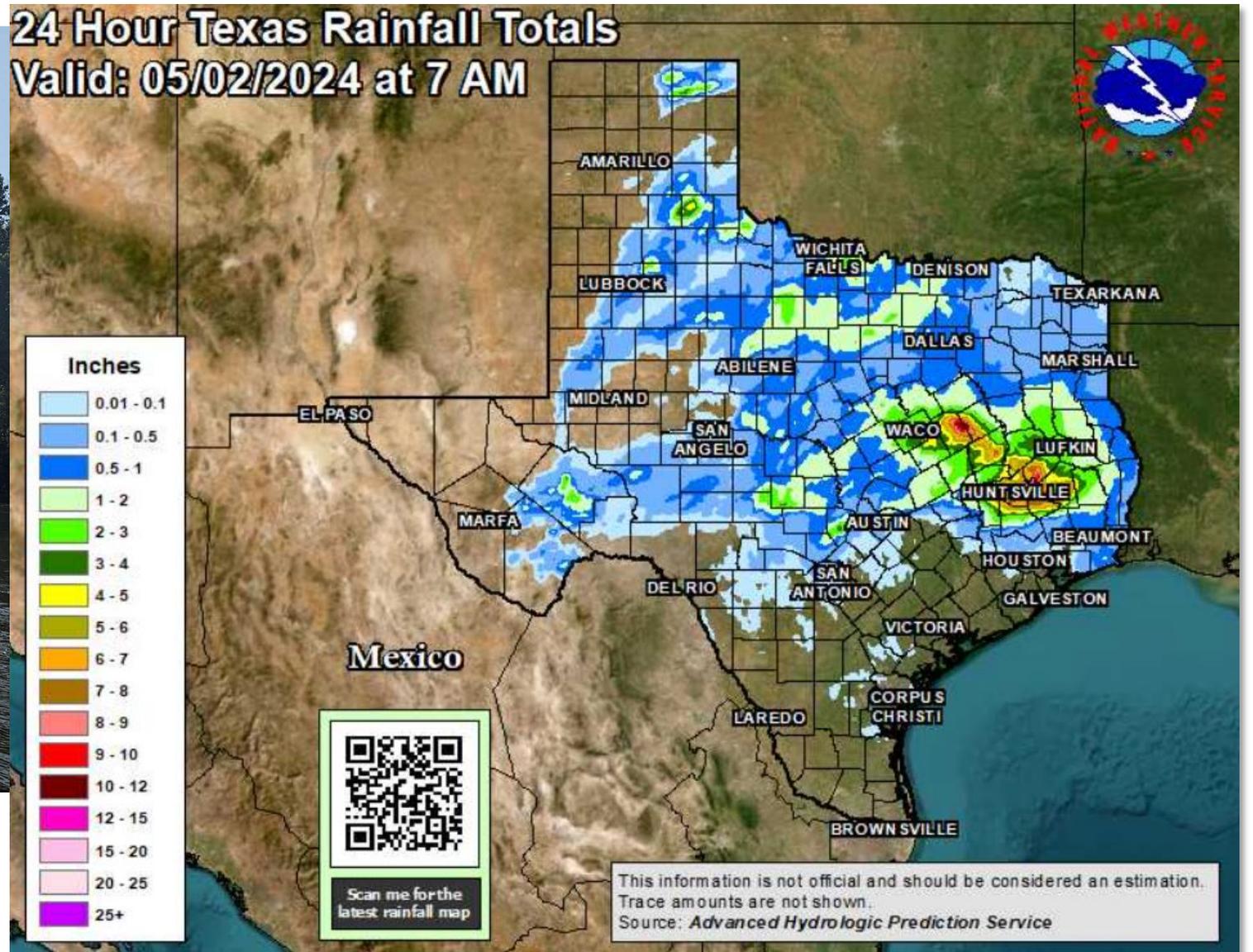
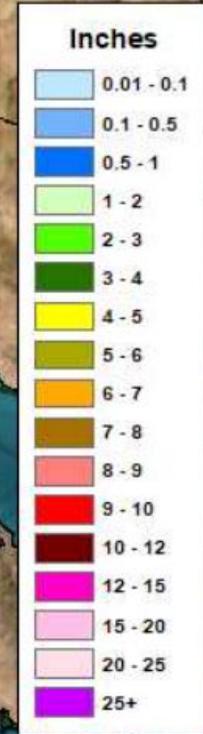
71,835 cfs

🕒 11 minutes ago



24 Hour Texas Rainfall Totals

Valid: 05/02/2024 at 7 AM



This information is not official and should be considered an estimation.
Trace amounts are not shown.
Source: *Advanced Hydrologic Prediction Service*

2024 Weather

Our neighbors to the east also received extreme flooding from this rain event

Photo by Michael Wyke (Rosenburg, TX)



Photo by Brandon Bell (Freeport, TX)

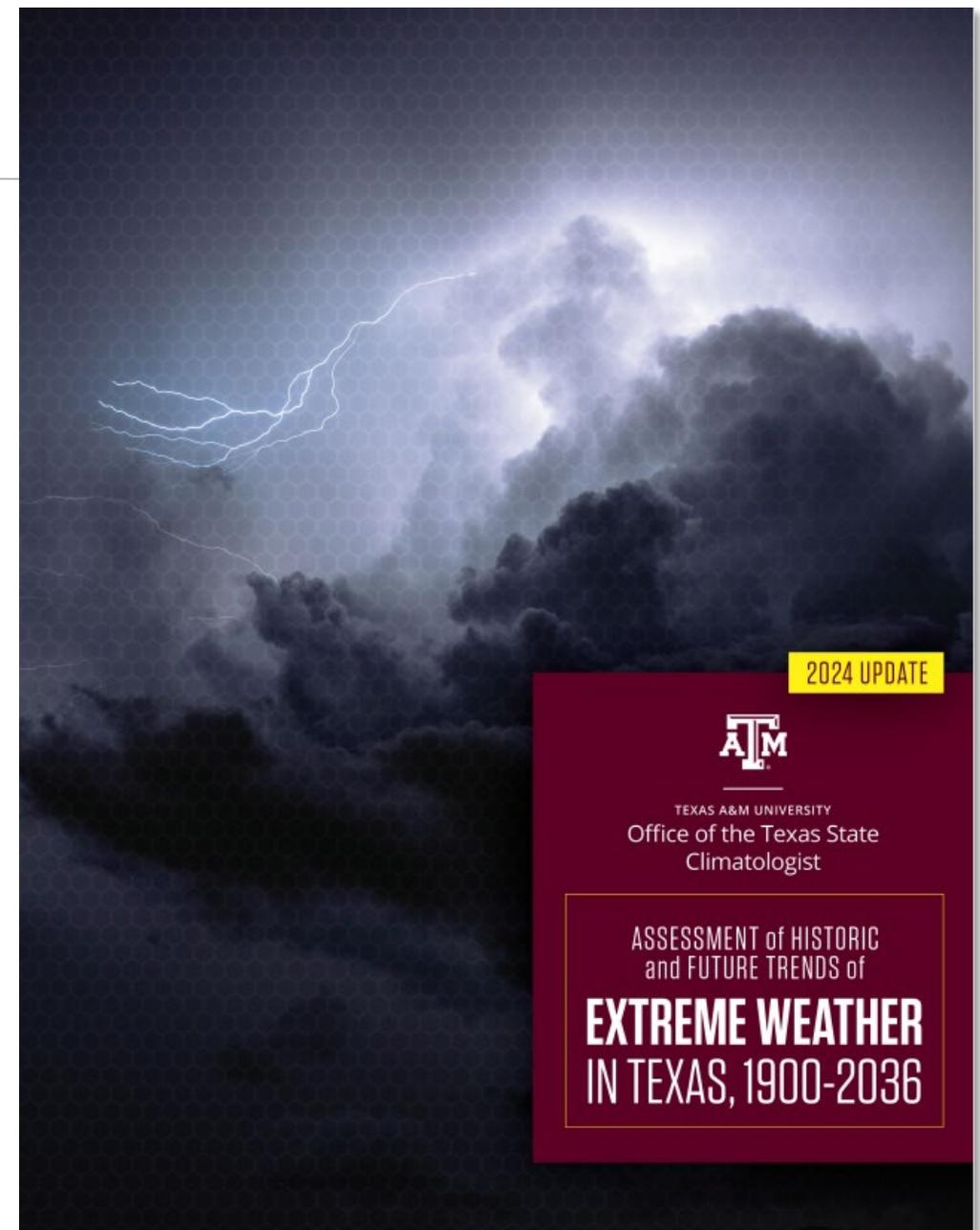
2024 Weather

Hurricane Beryl impacted southern portion of basin – 3-6 ft of storm surge along the coast, 80 MPG gusts of wind, and 10 inches of rainfall in Harris County

2024 Climate Report

texas2036.org

- **Extreme rainfall** intensity is expected to **increase by 10%** by 2036, compared to 2001-2020 (20% compared to 1950-1999). Translates to an increase in frequency of 50% (100% compared to 1950-1999)
- Urban flooding throughout the state is expected to correlatively increase with precipitation
- Increases in riverine flooding is not seen nor anticipated due to mitigation efforts
- Hurricane storm surges will tend to be more severe due to sea level rise and increase in hurricane strength



2028 Regional Flood Plan Overview

RYAN LONDEEN, PE, CFM (HALFF)

2028 Plan Task Overview

Task 1 – Planning Area Description

Task 2A – Existing Conditions Flood Risk Analysis

Task 2B – Future Conditions Flood Risk Analysis

Task 3A – Floodplain Management Practices

Task 3B – Flood Mitigation Needs Analysis

- Previously Task 4A

Task 3C – Flood Mitigation and Floodplain Management Goals

- Previously Task 3B

Task 4A – Identification and Evaluation of Potential FMXs

- Previously Task 4B

Task 4B – Prepare and Submit Technical Memorandum

- Previously Task 4C

Task 4C – Performance of Identified FMEs

- Previously Task 12



FMS

Flood Management Strategy



FME

Flood Mitigation Evaluation



FMP

Flood Mitigation Project

2028 Plan Task Overview

Task 5A – Recommendation of FMXs

Task 5B – Recommend a List of FMEs to be Performed by TWDB

- **NEW TASK:** Identify FMEs for TWDB to perform. Develop estimated scope and fee associated with each FME and provide TWDB with relevant information

Task 6A – Impacts of Regional Flood Plan

Task 6B – Contributions/Impacts on Water Supply

Task 7 – Flood Response Information and Activities

Task 8 – Admin, Regulatory, and Legislative Recommendations

Task 9 – Flood Infrastructure Financing Analysis

Task 10 – Public Participation and Plan Adoption

Task 11 – Implementation and Comparison to Previous Flood Plan

- **NEW TASK:** Describe changes since the previous cycle and progress intended to be made in upcoming years.



FMS

Flood Management Strategy



FME

Flood Mitigation Evaluation



FMP

Flood Mitigation Project

September 2024
Contract Executed/
Begin Work



January 26, 2026
Recommend List for
TWDB FMEs (Task 5B)



February 26, 2027
Draft Plan



January 10, 2028
Final Plan



July 31, 2028
Contract
Expiration



Phase 1. Data Collection and Risk Analysis

- Task 1: Planning area description
- Task 2A: Existing condition flood risk
- Task 2B: Future condition flood risk

Phase 2. Floodplain Management and Goals

- Task 3A: Floodplain management practices
- Task 3B: Flood mitigation needs analysis
- Task 3C: Mitigation and management goals

Phase 3. Mitigation and Management

- Task 4A: Potential FMEs, FMPs and FMSs
- Task 4B: Technical memorandum

Review

- Task 5B: Recommend FMEs for TWDB

Phase 4. Evaluation, Projects and Strategies

- Task 4C: Perform FMEs
- Task 5A: Recommend FMEs, FMPs and FMSs
- Task 6A: Impacts of regional flood plan
- Task 6B: Contributions/impacts on water supply



Phase 5. Flood Preparedness, Policy and Finance

- Task 7: Flood response and activities
- Task 8: Admin, regulatory, and leg recommendations
- Task 9: Flood infrastructure finance

Draft Review

Task 11: Compare to previous flood plan

Task 10: Public Participation and Plan Development

Task 10: Plan Adoption

We Are Here

2024					2025					2026					2027					2028																
Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug

2028 Scope Changes

Key Changes to Existing Tasks

Task 1

- Definition of low water crossings has been provided. Low water crossings will be analyzed separately from other flood infrastructure.

Tasks 2A and 2B

- All Task 2 analyses (flood quilt, flood risk, and vulnerability assessments) will now include metrics for the 10% ACE along with the 1 and 0.2%.
- Additional context has been provided on how levee and dam protected areas should be analyzed.
- Consideration of future development conditions will be left up to RFPG discretion.

Task 4

- FMPs and FMSs that avoid or prevent future flood risk can be evaluated and recommended within the Regional Flood Plan.

Region 8 - Lower Brazos

Regional Flood Planning Group

5. Discussion and possible action on the process for future Amendments to the 2023 Regional Flood Plan.

2024 Regional Flood Plan Amendment

RYAN LONDEEN, PE, CFM (HALFF)

Amendment Process

DRAFT

- The TWDB is allowing new FMXs to be included in the 2024 state flood plan through an amendment process
- An amendment is a **complete resubmittal** of the plan (including all data)
- **Solely at the discretion of the RFPG**
- RFPG is allowed 0 – 2 amendments
- Effort to complete amendment will be pulled from Task 4A and Task 10 budgets
- Estimated submittal deadline to be eligible for 2026-2027 FIF = Jan 31, 2025
- Must be voted on by RFPG

Potential Amendment 1 Schedule



Potential Amendment FMXs

FMX Type	Brief Description	Entity	Date Received
FME(s)	Sponsorship support for 3 FMEs listed in 2023 RFP.	Killeen	1/05/2024
FMP	Proposed project to improve culverts at US 337 and SH 144 and construct a diversion channel to relieve flooding within nearby neighborhoods.	NTCOG / Granbury	2/21/2024
FME	Proposed studies for the cities of Breckenridge and Eastland.	Breckenridge and Eastland	4/25/2024
FMP	Proposed dam project within the City of Mart.	City of Mart	4/26/2024
FME	Proposed studies throughout city to update mapping and flood risk understanding.	College Station	5/23/2024
FMP	Proposed Brazos River gauge in the Town of Thompsons.	Town of Thompsons	5/23/2024
FMP(s)	Potential FMPs identified through Williamson County Atlas 14 study.	Round Rock	5/30/2024
FMP (removal)	Removal of Jones Creek project due to development in proposed project area.	Fort Bend County	6/10/2024



QUESTIONS AND COMMENTS

For more information or to contact the RFPG visit:
lowerbrazosflood.org

NEXT STEPS

OPTION 1 – START 2028 PLAN

- Commence Tasks 1 and 2
- Commence stakeholder outreach regarding 2028 plan
- Hold next RFPG meeting October 2024
 - Bi-monthly meetings to follow

OPTION 2 – AMEND 2023 PLAN

- Advertise upcoming amendment
- Commence stakeholder outreach regarding amendment
- Identify new FMXs for evaluation
- Hold next RFPG meeting September 2024
 - Monthly meetings through January

Region 8 - Lower Brazos

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6. Report from:

6.1. Texas Water Development Board (TWDB) staff

6.2. Regional Planning Sponsor

6.3. Lower Brazos RFPG Chair

Region 8 - Lower Brazos

Regional Flood Planning Group

- 7. Confirm the next meeting date and discuss new business to be considered at the next**

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8. Adjourn