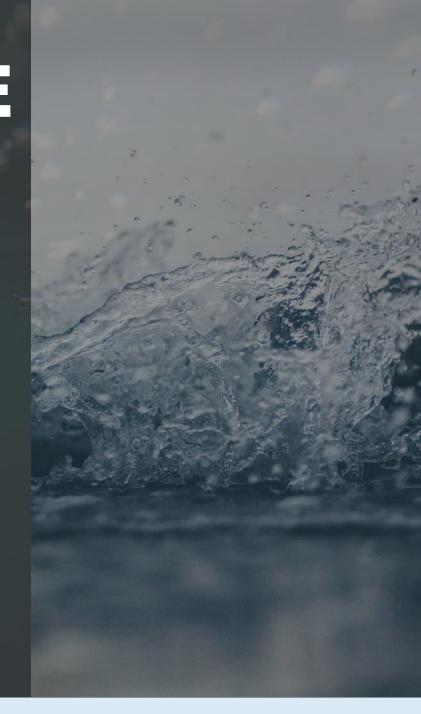
LOWER RIO GRANDE REGIONAL FLOOD PLANNING GROUP MEETING

RFPG Meeting Agenda Items #9 - #11

August 20, 2025





AGENDA

- □ Item 9 Discussion and Update from Technical Consultant
- □ Item 10 Discussion and Possible Action on Existing Conditions Flood Quilt Hierarchy
- □ Item 11 Discussion and Possible Action on Flood Mitigation and Floodplain Management Goals





Agenda Item No. 9

Discussion and Update From Technical Consultant





Chapter 1 Update

Task 1: Planning Area Description

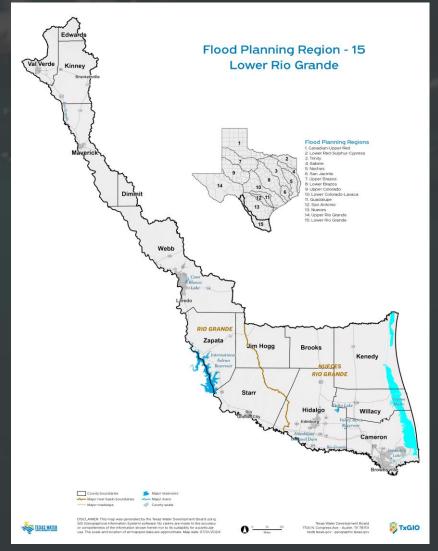


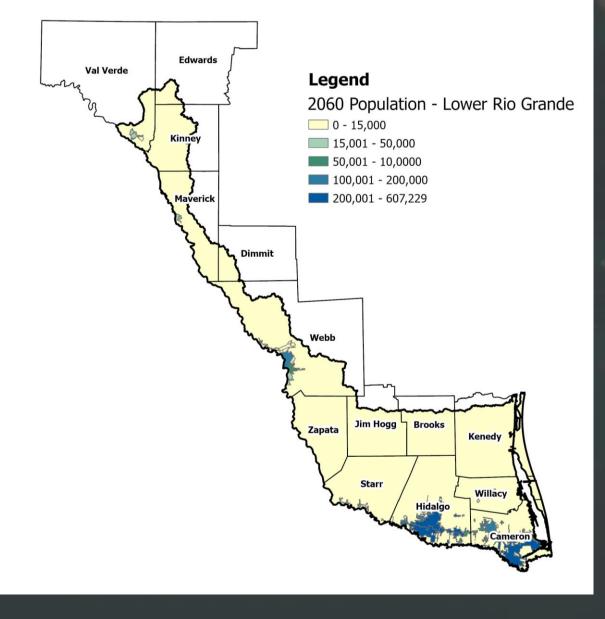


Provides an overview of the Lower Rio Grande Regional Flood Planning Area (LRGRFPA), including:

- Social and Economic Character
- Major Flood Risks / Historical Flood Events
- Political Subdivisions with Flood-related Authority
- Extent of Flood Risk-related Regulations
- Agricultural and Natural Resources impacted by flooding
- Existing Flood Mitigation Planning Efforts
- Inventory and Assessment of Existing Flood Infrastructure





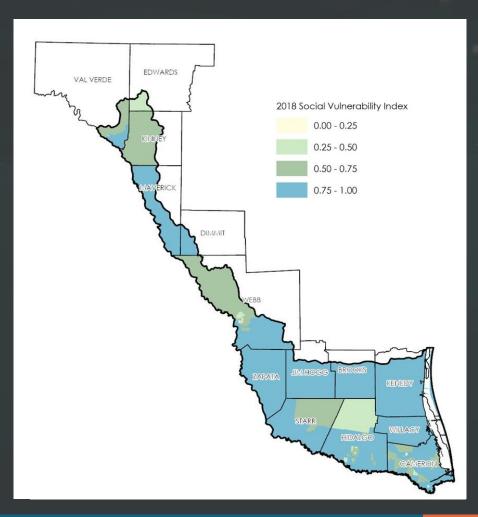


- From 2030-2060, population is expected to increase from 1,939,505 to 2,120,563
 - This is a 9.3 increase over the next 30 years
 - Last cycle, estimates predicted a 62.3 percent increase
- The Median Household Income (MHI) ranges from \$31,310 in Brooks County to \$66,341 in Kinney County
 - MHI in the region's counties averages \$47,119,
 compared to the state's MHI of \$75,780
 - Last cycle, MHI for the region was \$37,595

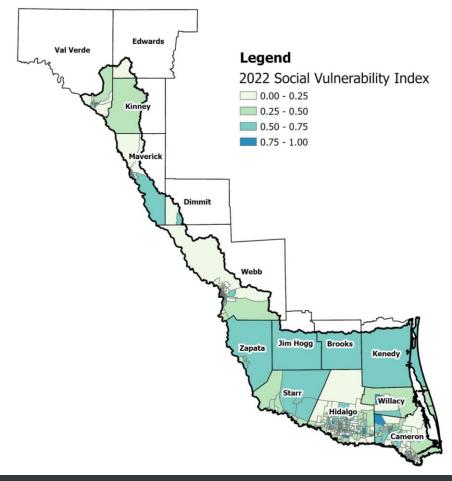




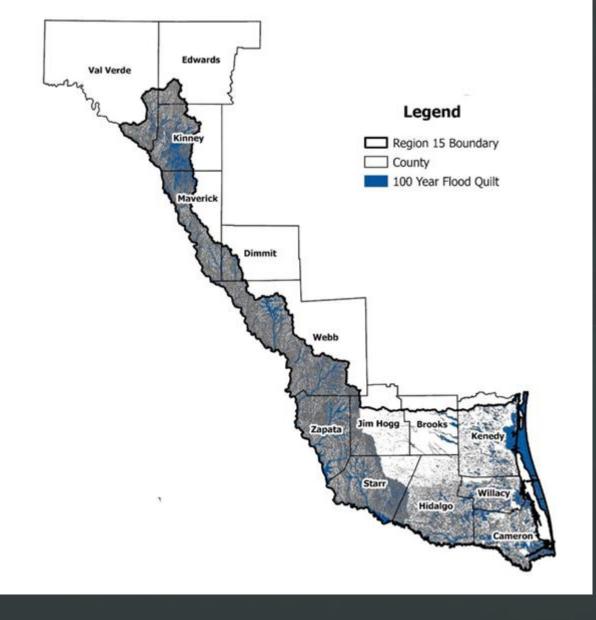
2023 Plan's SVI



2028 Plan's FSVI



- Social Vulnerability Index (SVI) method is measured on a scale of zero to one, with one being the highest level of vulnerability
- TWDB developed the Flood Social Vulnerability Index (FSVI) in February 2025 specifically to assess the vulnerability of communities to flooding events





- Updated 100 Year Flood Quilt provided by TWDB
- One new flood event since last cycle:
 DR-4871-TX (March 2025)
 - 5 20 inches of rain throughout Starr, Hidalgo, Willacy, and Cameron Counties
 - > 1,000 structures inundated
 - Hundreds of roads and highways including IH-69E frontage roads and key segments of the I-2 corridor flooded
 - Flights suspended at Valley International Airport in Harlingen
 - Property Damage estimated to be over \$100 million.



Last cycle, the TWDB provided an original list of political subdivisions within the Lower Rio Grande Region that were thought to potentially have some degree of flood-related authority.

Political Subdivisions with Flood-Related Authority (85 total)

- Counties (14 total)
- Municipalities by County (54 total)
- River Authorities (0 total)
- Flood Districts (10 total)
- Irrigation Districts with Flood Control Authority (5 total)
- Municipal Utility Districts with Flood Control Authority (2 total)

Interest groups with no flood authority* (28 total)

- Irrigation Districts with no Flood
 Control Authority (15 total)
- Special conservation and reclamation district (1 total)
- Municipal Utility Districts with no Flood Control Authority (8 total)
- Council of Governments with no flood control authority (4 total)

Entities removed from the original TWDB list (15 total)

- Navigation Districts with no Flood Control Authority (3 total)
- Water Districts with no Flood Control Authority (12 total)



See Handout A for full list



* Entities remain included as an interest group due to association with flood mitigation activities and/or conveyance of stormwater

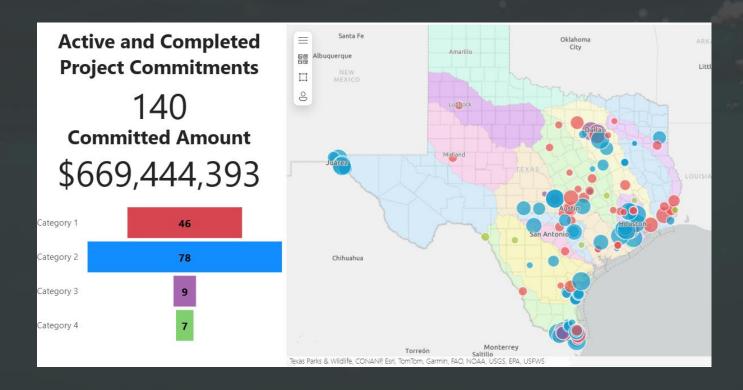
Edwards Val Verde Legend Non Participating Counties **Participating Counties** Participating Communities Dimmit Jim Hogg **Brooks** Kenedy Starr



CH. 1 PLANNING AREA DESCRIPTION

Flood Risk-Related Regulations within the Region

- 91 percent of eligible entities (49 of 54 municipalities and 13 of 14 counties) participate in the NFIP
- The Texas Water Code §16.315 requires NFIP participants to:
 - Adopt a floodplain management ordinance
 - Designate a floodplain administrator
 - Interpret local floodplain management regulations and review for compliance with NFIP standards.



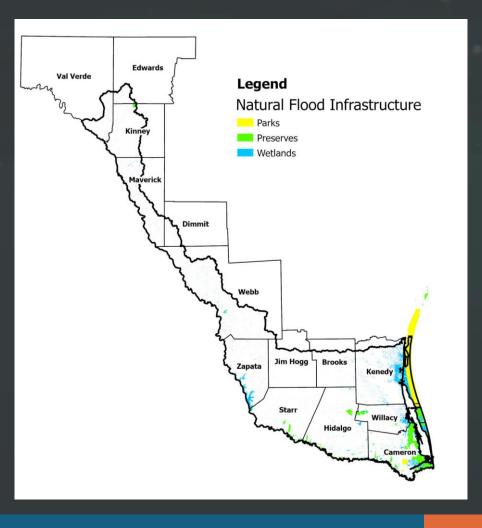
Most of the active Flood Mitigation
Planning Efforts that are currently
ongoing are funded by the Flood
Infrastructure Fund. Within Region 15:

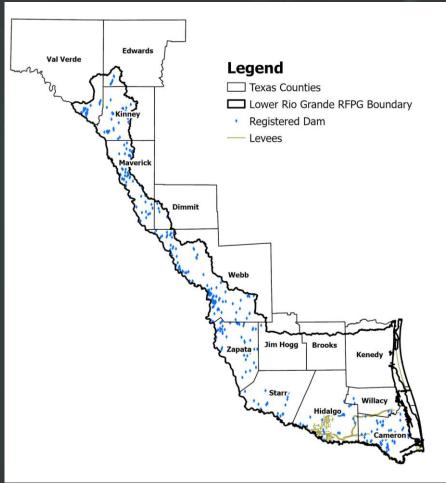
- Three (3) FIF Category 1 projects are currently underway (\$2,425,000)
- Fourteen (14) FIF Category 2
 projects are currently underway
 (\$61,407,292)
- Two (2) FIF Category 3 projects are currently underway (\$3,149,178)
- One (1) FIF Category 4 project is currently underway (\$500,000)





Inventory and Assessment of Existing Flood Infrastructure





Condition

- Deficient
- Non-Deficient
- Unknown

Functionality

- Functional
- Non-Functional
- Unknown

Confidence

- High
- Low
- None



Chapter 2 Update

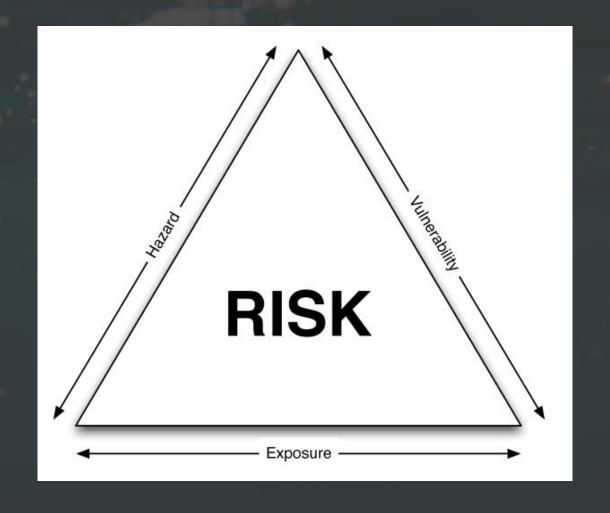
Task 2a: Existing Conditions Flood Risk Analysis





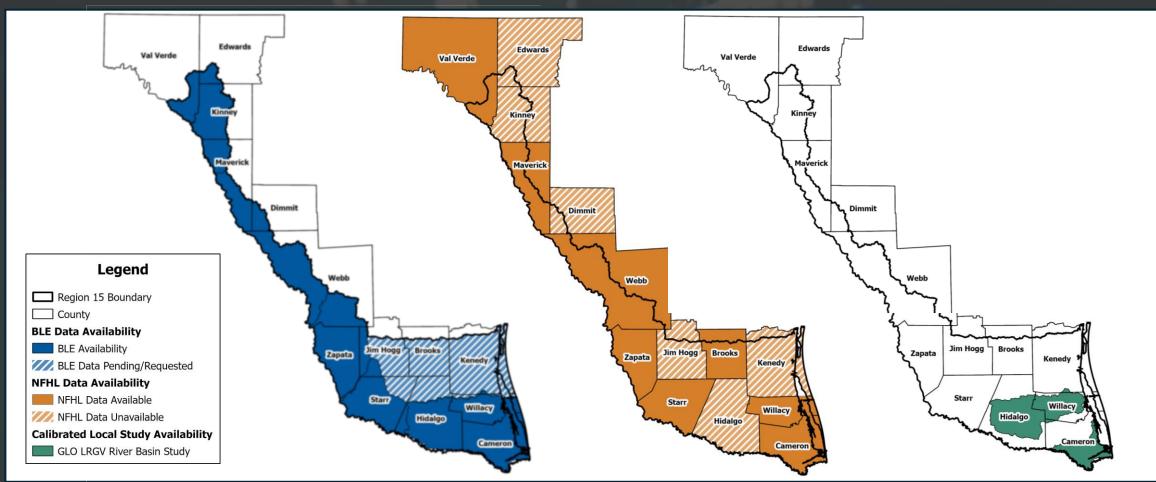
Purpose

- Flood Risk Identification and Mapping
- Flood Exposure Estimation
- Vulnerability Assessment





TASK 2A: TWDB FLOOD QUILT DATA SOURCES







TASK 2A: FLOOD MAPPING DATA SOURCES AND PRIORITIZATION

Ranking	Description	Sub Category Ranking
		Pending Data
1	National Flood Hazard Layer	Preliminary Data
		Effective Data
2	Base Level Engineering Data	
3	NFHL (Approximate Study Areas)	
4	First American Flood Data Services (FADS)	
		Fathom
5	Other Potential Data Sources	USACE of Federal Data
	Other Potential Data Sources	Regional Data
		Local Data





FLOOD TYPE

- Riverine
- Coastal
- Pluvial including
 Urban flooding

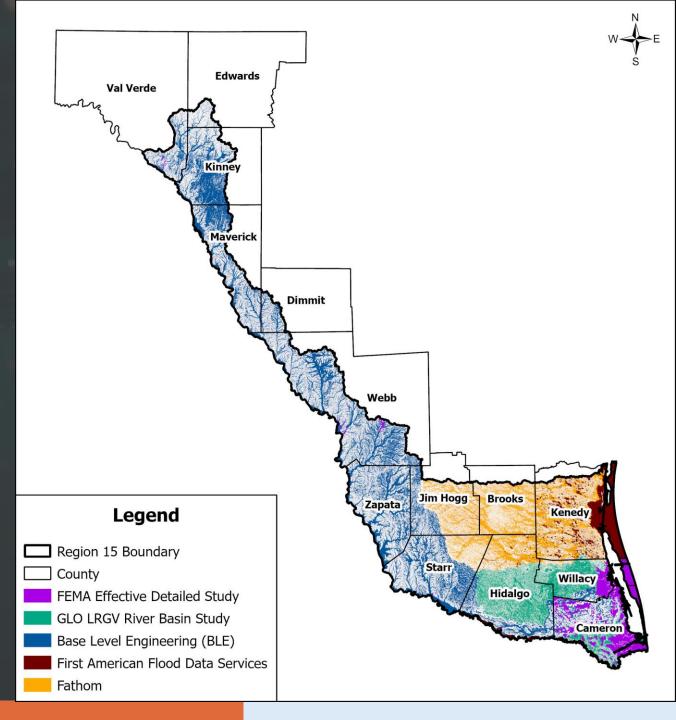
FLOOD EVENT TYPES

- 10-Year
- 100-Year
- 500-Year
- Other

DATA SOURCES

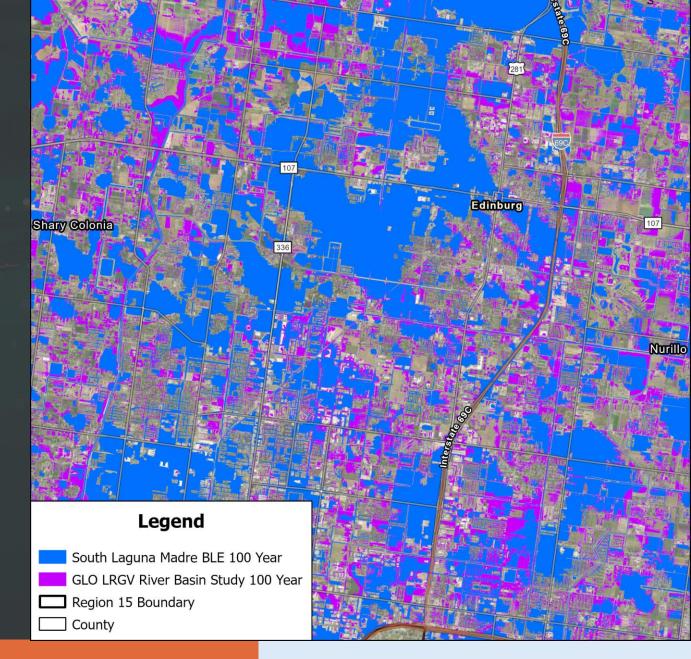
- TWDB Flood Quilt
- FEMA
- Regional/Community Data
- FATHOM







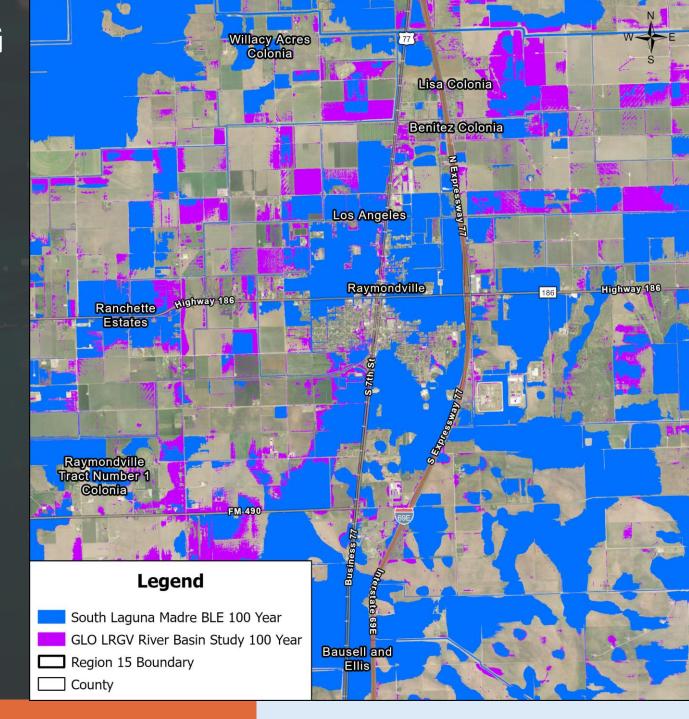
- GLO LRGV River Basin Study
- Calibrated Model
- External Review Process and Approval
- Example: Edinburg Area







- GLO LRGV River Basin Study
- Calibrated Model
- External Review Process and Approval
- Example: Raymondville Area

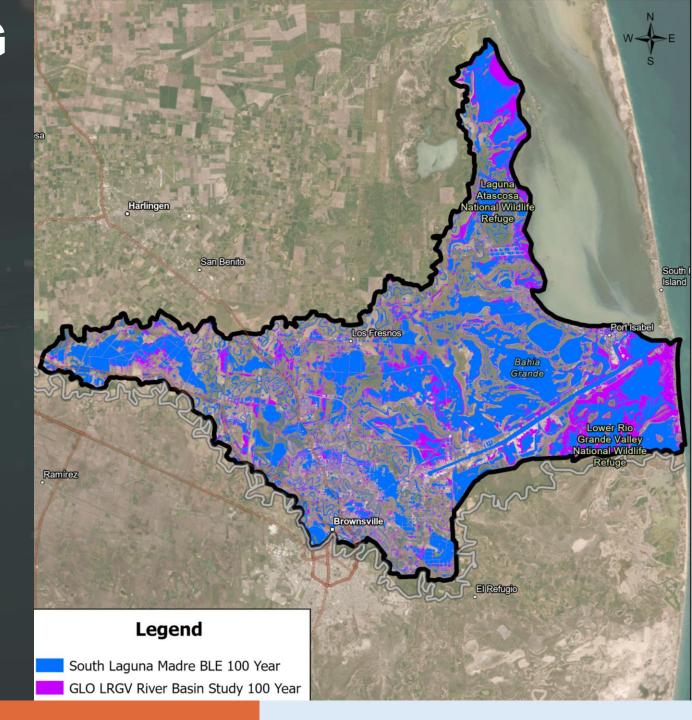






- GLO LRGV River Basin Study
- Calibrated Model
- External Review Process and Approval
- Example: Brownsville to Port Isabel HUC and Coastal Area

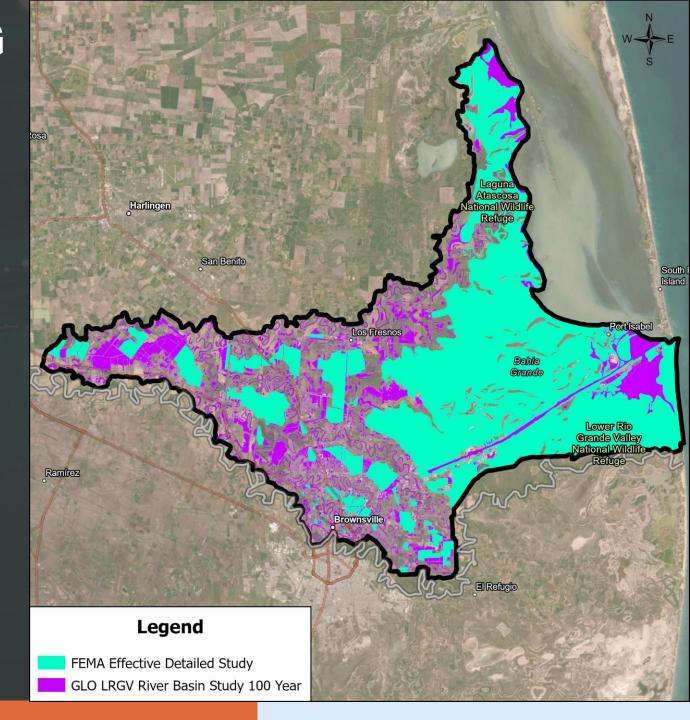






- Proposed Existing Flood Quilt in Brownsville to Port Isabel HUC and Coastal Area
 - FEMA Flood Hazard Data
 - GLO LRGV River Basin Study in lieu of BLE







Chapter 3 Update

Task 3c: Flood Mitigation and Floodplain Management Goals





CH. 3C FLOODPLAIN MANAGEMENT GOALS



Specific & Achievable



Short-term (10 yrs) &/or Long-term (30 yrs)



Residual Risk



Regionwide or Subregional





CH. 3C FLOODPLAIN MANAGEMENT GOALS

Goal Categories/ Objectives	Category 1. Education and Outreach	Category 2. Flood Warning and Readiness	Category 3. Flood Studies and Analysis	Category 4. Regulatory and Guidance	Category 5. Property Acquisition, Structure Elevation and Floodproofing	Category 6. Flood Infrastruc ture Projects
Protect Life	•	•	•	•	•	•
Protect Infrastructure		•	•	•	•	•
Protect Property		•	•	•	•	•
Protect the Environment			•	•	•	•
Protect/Enhance Water Supply				•	•	•
Sustain the Economy		•		•	•	•
Realize Multiple Benefits				•	•	•
Increase Public Awareness	•	•	•	•	•	
Build Community Support		•	•	•		



CH. 3C FLOODPLAIN MANAGEMENT GOALS - EDUCATION AND OUTREACH

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Increase the number of Region 15 entities participating in public outreach and education activities to improve awareness of flood hazards and benefits of flood planning in the region.	15%	20% - 30%	60%	?	?
Increase the number of entities and public stakeholders participating in the regional flood planning process.	19%	30% - 40%	70%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS - FLOOD WARNING AND READINESS

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to the most populated areas of the region.	37% (working towards goal) 0% currently covered	40% - 50%	70%	?	?
Increase the number of flood gauges (rainfall/stream) in the region.	65 current gages (increased from 8 in 2021)	30% - 40%	70%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS - FLOOD STUDIES AND ANALYSIS

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs in the region.	401 FIRMs <20 yrs (out of 506)	30% - 40%	70%	?	?
Increase the coverage of available flood hazard data in the region by completing studies in areas identified as having gaps in flood mapping data.	17%	30% - 40%	70%	?	?
Develop and maintain an operational stormwater asset management plan.	9%	40% - 50%	70%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS – REGULATORY AND GUIDANCE (FLOOD PREVENTION)

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Increase the number of Region 15 communities participating in the National Flood Insurance Program (NFIP).	91%	100%	100%	?	?
Increase the number of entities that adopt higher than NFIP-minimum standards	18%	40% - 50%	60% - 70%	?	?
Increase participation in the Community Rating System (CRS).	2%	30% - 40%	50%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS – REGULATORY AND GUIDANCE (FLOOD PREVENTION)

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Increase the number of entities that have a dedicated drainage fee to help implement future Flood Mitigation Evaluations (FMEs) and Flood Mitigation Projects (FMPs).	2%	30% - 40%	50%	?	?
Increase the number of communities that impose penalties for noncompliance with standards.	2%	30% - 40%	50%	?	?
Reduce increases in future flood risk to life and property by regulating development in future conditions floodplains.	2%	30% - 40%	50%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS - PROPERTY ACQUISITION, STRUCTURE ELEVATION, AND FLOODPROOFING

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Reduce the number of structures that have been subject to repeated flooding events through property buyouts.	TBD	\$10 M	\$50 M	?	?
Increase the acreage of publicly protected open space in critical flood risk areas.	TBD	300K acres	600-800K acres	?	?
Remove existing structures from 1% annual chance floodplain by structural elevation and floodproofing.	TBD	70%	100%	?	?



CH. 3C FLOODPLAIN MANAGEMENT GOALS - FLOOD INFRASTRUCTURE PROJECTS

Proposed Goal Statement	Preliminary Approx. Baseline Measurement	Short Term (2033) First Cycle	Long Term (2053) First Cycle	Short Term (2038)	Long Term (2058)
Increase the number of nature-based flood risk reduction projects.	TBD	\$10 M	\$50 M	?	?
Reduce the number of vulnerable critical facilities within the existing 1% annual chance floodplain event.	12%	70%	100%	?	?
Increase the number of entities that provide regional detention as part of their floodplain management program.	22%	30%	60%	?	?





Chapter 4 Update

Update on Amendment Submitted April 1, 2025

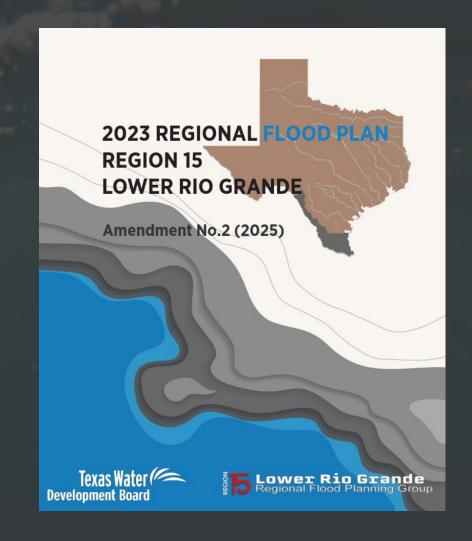
Task 4a: Identification and Evaluation of Potential FMXs





UPDATE ON RFP AMENDMENT

- Amendment Submitted on April 1, 2025
 - 89 New FMEs, 11 New FMPs, 35 New FMSs
 - Submittals from over 30 Region 15
 Stakeholders
- RFI Received from TWDB on July 28, 2025
 - 40 minor comments received
 - Comments were addressed and resulted in minor updates to geodatabase and tables
 - Complete RFI response submitted to TWDB on 8/13/25
- TWDB considering request to incorporate additional FMXs into amendment pending view of formal written request







TASK 4A: IDENTIFICATION AND EVALUATION OF POTENTIAL FMXS

- Call for FMXs for 2028 Regional Flood Plan posted to Region 15 website
 - Emails to Region 15 Stakeholders
 - Email List and Targeted Emails
 - Follow up Virtual Meetings with Stakeholders
 - Phone Call Outreach in Progress
- FMX Submittals Due September 19, 2025



FMX = FMSs, FMEs, and FMPs





Chapter 10 Update

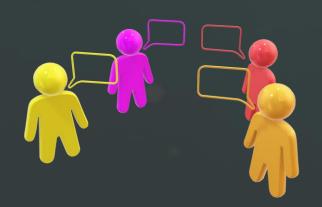
Task 10: Public Participation/Outreach





CH. 10 PUBLIC PARTICIPATION / OUTREACH

Calls, Emails, Virtual Meetings,
 In-Person Meetings



RFPG Contact Log						
		Sender				
Date	Sender	Organization	Contact Name	Entity Contacted	Format In-Person	Outreach Messaging
4/21/2025		LRGVTF	Carlan Marin GM & Ben Escobar	CCDD3	Meeting	
					In-Person	
4/23/2025		LRGVTF	Maricela Gonzales	City of Donna	Meeting	
					In-Person	
4/24/2025		LRGVTF	Anabel G. Salinas	CCDD1	Meeting	
					In-Person	
4/24/2025		LRGVTF	Raul Garcia	City of Los Fresnos	Meeting	
	Anne					
7/23/2025	Whitko	Halff	Maria Rangel, Miranda Garcia	City of Pharr	E-Mail	follow up on survey tool
	Anne				Virtual	discussion of County MDP and FMX
7/23/2025	Whitko	Halff	Candy Hobbs	Kinney Cty	Meeting	submittals for 2028 RFP
	Anne					
8/1/2025	Whitko	Halff		Multiple Entities	E-Mail	Call for FMXs for 2028 RFP
	Anne					discussion on current FIF study
	Whitko,					(anticipated to conclude by end of
	Kristina					Aug.) and required information to
	Leal, Elmer				Virtual	include in 2028 plan (and possibility of
8/8/2025	Hinojosa	Halff	Roberto Hernandez	Harlingen	Meeting	adding to previous amendment)
	Anne					
8/11/2025	Whitko	Halff	Candy Hobbs	ney Cty	Phone Call	responding to questions on FMXs
	Anne					
040,000		11.100		<u> </u>	l	





CH. 10 PUBLIC PARTICIPATION / OUTREACH

- Public Meeting Scheduled to present FMX submittal process and draft existing conditions flood risk data
 - TWDB Regional Flood Planning Requirement
 - Will be preparing web map to facilitate review and comments from public
- Coordinating an additional meeting in Laredo



HELP SHAPE THE LOWER RIO GRANDE REGIONAL FLOOD PLAN SEPTEMBER 10, 2025 4:00 PM TO 6:00 PM

LOWER RIO GRANDE
REGIONAL FLOOD PLANNING GROUP
PUBLIC MEETING

UTRGV Center for Innovation and Commercialization 307 E. Railroad St. WCIC 118 Weslaco, Texas 78596

RSVP & Questions: evelyn@texaspathfinder.com





CH. 10 PUBLIC PARTICIPATION / OUTREACH

Region 15 on Social Media

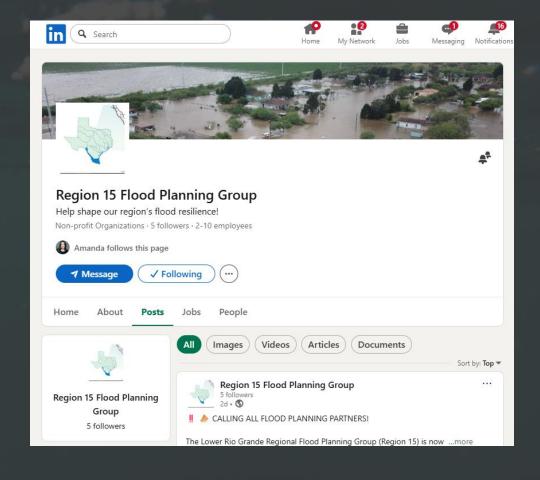
 Posted Introduction/Welcome, Survey Link, call for FMXs, Region 15 website link

Facebook: https://www.facebook.com/profile.ph
p?id=61578625946987

X (formerly

Twitter): https://x.com/Region15LRGRFP

LinkedIn: https://www.linkedin.com/company/region-15-flood-planning-group/







Agenda Item No. 10

Discussion and Possible Action on Existing Conditions Flood Quilt Hierarchy





Agenda Item No. 11

Discussion and Possible
Action on Flood
Mitigation and Floodplain
Management Goals

